

**PROJECT REPORT**

**ON**

**WEB BASED LEARNING AND TEACHING**

**FOR**

**PROGILE EDUTECH PVT LTD**

**BY**

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**UNIVERSITY OF PUNE**

**MASTER OF COMPUTER APPLICATION**

**MAHARASHTRA EDUCATION SOCIETY'S**

**INSTITUTE OF MANAGEMENT AND CAREER  
COURSES (IMCC), PUNE – 411029**

**2012-2013**

## **INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that, **Anup Narayan Sapkale**, student of **Master Computer Application** from **MES's Institute of Management and Career Courses (IMCC), Pune** has done full-semester internship training successfully at **Progile Edutech Pvt. Ltd., Pune** from December 2012 to April 2013.

Anup was a team member, who worked on the product development of “**Web Based Learning & Teaching**”. The product was developed using open source J2EE technology comprising of Spring and Hibernate framework with MySql database under the supervision and guidance of Mrs. Meenakshi Bhale and Mr. Bhushan Khaire.

Anup is resourceful, hardworking and sincere. During his short tenure he has completed his tasks with full responsibility and ownership.

**For Progile Edutech Pvt. Ltd.**

**Director**

**Project Lead**

## **CERTIFICATE**

As per the policy of the company, source code of the project cannot be published or distributed in any form.

As it is the proprietary of the company, it cannot be shared.

Hence the project report does not have sample code attached.

**For Progile Edutech Pvt. Ltd.**

**Director**

**Project Lead**

**CERTIFICATE**

This is to certify that “**Anup Narayan Sapkale**” has completed the project work entitled “**Web Based Learning and Teaching**” under my guidance. The report is submitted in partial fulfillment of M.C.A. Syllabus for the Academic year 2012-2013 as per rules & prescribed guidelines of University of Pune.

His work is found to be satisfactory and complete in all respects.

(Internal Project Guide)

## **ACKNOWLEDGEMENT**

Acknowledging people who helped me in completing the work has been always a good task. This report is an attempt to express my deepest gratitude to all those who have contributed for making of this project either directly or indirectly.

First of all I would like to offer my sincere thanks to Dr. V. H. Inamdar, Director of IMCC who provided us moral support.

I express my special thanks to Mrs. Jayashree Patil and Mrs. Manasi Bhate for being a constant source of inspiration and guidance in all phases of project work. I am thankful to Mr. Shrikant Mhaske for providing me his valuable time and guidance.

I am thankful to all staff members of our college and friends for their cooperation.

Anup Narayan Sapkale

MCA III

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# CHAPTER 1

## INTRODUCTION



## Company Profile

Progile Edutech Pvt. Ltd. is a start-up focused on developing Web based Knowledge Repository for educational institutes and students.

They have partnered with domain experts who have more than three decades of extensive experience in the field of education in India and abroad.

This deep domain expertise coupled with extensive global IT experience enables us to develop comprehensive and innovative products and projects.

### **Capabilities:**

The Progile team has extensive experience in IT project delivery management, program management, pre-sales, transition management, P&L accountability, Financial Management Consulting and Process & Quality Management in some of the leading Indian and global enterprises.

**Domain Expertise:**

They have worked and gained extensive knowledge and expertise in the domains:

- Education
- Environment
- Finance
- Chain Management.

## Existing System and Need of System

### Existing System:

- Universities have a vast knowledge base of different topics, research papers, seminar notes, etc. which is in different formats. These formats may include material in CDs, hardcopies and softcopies in various formats. This information is scattered across the university and is not easily accessible or searchable by the students and faculty members, thus the knowledge base is not optimally utilized to the benefits of students and faculty members.
- Faculty members have to plan their schedule of semester manually.
- There are various study materials available in market but student did not find the required study material in proper format.

**Need of System:**

- It aims to provide comprehensive access to digital content (Power point presentations, textual etc. resources) to every student, faculty and staff of the educational institute.
- Universities have a knowledge base of different topics, research papers, seminar notes, etc. which is in different formats. These formats may include material in CDs, hardcopies and softcopies in various formats. This information can be consolidated and organized so that it can be accessible to students and faculty members based on their specific needs.
- Faculty can plan their schedule for entire semester using this system.
- To make learning interesting to the students as they get all the information under one roof.
- It will help the educational institutes to manage their schedule and provide a convenient way to teachers to teach.

## **Scope of Work**

The actual process of the system can be modularized into following different modules:-

1. Registration
2. Content Management
3. Planning
4. Presentation

## 1. Registration Module:-

Registration module will allow registration of entities .

### Master Registration:

“Institute\_Admin” role will be able to perform –

Institute Admin will do registration of all master data in to System. The master tables are from group to topic as follows:-

- Group
- Institute
- University
- Course
- Branch
- Class
- Semester
- Syllabus
- Subject
- Chapter
- Topic
- Division
- Shift

This registration will also create binding between related entity.

E.g.

- a. Institute is from any 1 group
- b. Topic is from specific chapter and chapters are from specific Subject.

### **Student Registration:**

Single student as well as bulk students will be registered into WEB BASED LEARNING & TEACHING. By default all the registered student will have their user role as “Student”. Bulk registration facility is also provided.

**Staff Registration:**

All staff members of the institute will be registered into WEB BASED LEARNING & TEACHING. Each and every staff member will be mapped with their role in the institute. Staff members will be mapped to one or more roles depending upon his/her profile/responsibilities in the institute.

- “Institute\_Admin” will also be able to update the above entities.



## **2. Content Management :-**

### **a. Content Storage**

The content in the form of text, ppt, video, animation will be stored on the server in the appropriate structure (possibly tree structure). The folder structure will be something like Course, class, subject, chapter, topic etc. Relevant ppt, document, video and animation will be stored in these folders. It will need strong data mining capabilities to categorize the data subject wise, class wise, chapter wise and topic wise; this will enhance the relevance of the information required.

### **b. Content Manipulation**

The references to the content will be stored in the database. There will be a limited data manipulation capability which will be managed through the database. Content Management screen will be provided to add the data references for the data stored on the server. This screen will be used to add and update the data references in the database depending upon the content add and update from the server. Content Management screen is available to Institute Administrator.

### 3. Planning :-

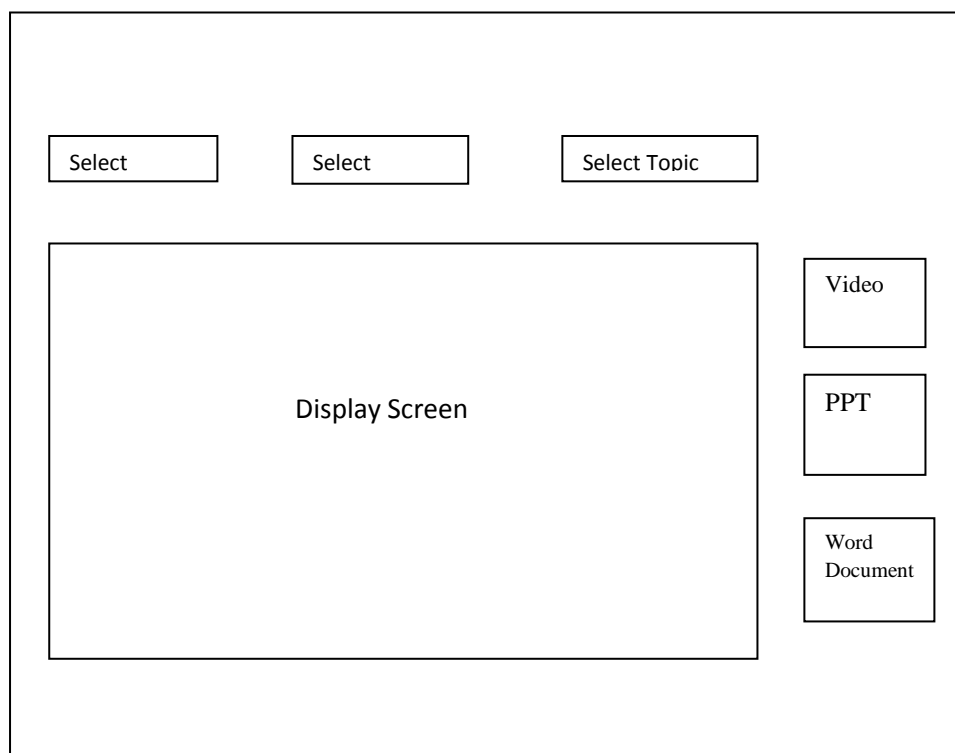
Planning module will allow the Institute Administrator and individual teaching staff to plan for the entire semester.

- **Subject Faculty Planning:**

Subject Faculty Planning is accessible to Institute Administrator. This module will allow the Institute Administrator to allocate the course, class, division, shift, and subjects to the teaching staff.

#### 4. Presentation :-

Faculty/Student will select subject, chapter and topic. All the learning material pertaining to the selection will be displayed video, PPT and Word file will be available on the page for viewing. User can click and select the learning media.



## **Operating Environment- Hardware and Software**

### **Hardware Requirements:**

- Processor: 1.6 GHz
- RAM: 2 GB
- Hard Disk: 80 GB
- Standard Keyboard

### **Software Requirements:**

- Front End: JSP
- Business Logic: Java
- Framework: Spring 3.X, Hibernate
- Back End: MySQL
- Server: Apache TomCat
- Operating System: Windows 7
- Development IDE: Idea IntelliJ

## Detail Description of Technology Used

### MVC Architecture:-

The main aim of the MVC architecture is to separate the business logic and application data from the presentation data to the user.

Here are the reasons why we should use the MVC design pattern.

1. They are **reusable**: When the problems recur, there is no need to invent a new solution; we just have to follow the pattern and adapt it as necessary.
2. They are **expressive**: By using the MVC design pattern our application becomes more expressive

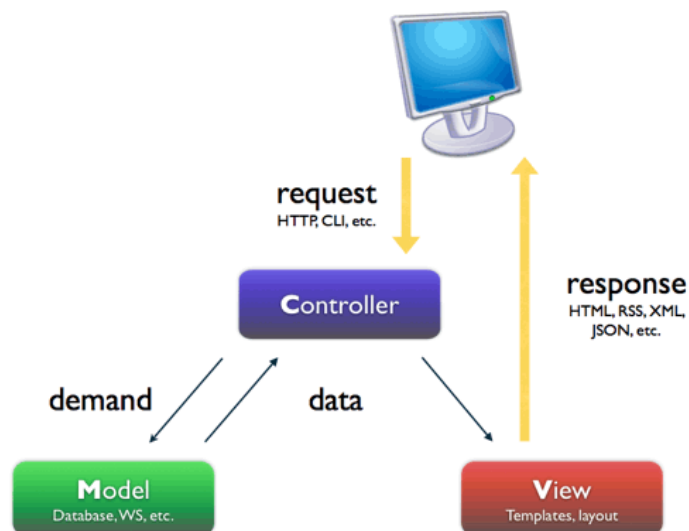
### Model:

The model object knows about all the data that need to be displayed. It is model who is aware about all the operations that can be applied to transform that object. It only represents the data of an application. The model represents enterprise data and the business rules that govern access to and updates of this data. Model is not

aware about the presentation data and how that data will be displayed to the browser.

### **View:**

View represents the presentation of the application. The view object refers to the model. It uses the query methods of the model to obtain the contents and renders it. The view is not dependent on the application logic. It remains same if there is any modification in the business logic. In other words, we can say that it is the responsibility of the view's to maintain the consistency in its presentation when the model changes.

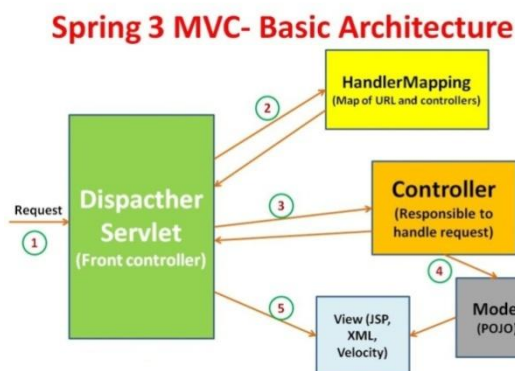


**Spring MVC Framework:-**

The Spring Web model-view-controller (MVC) framework is designed around a DispatcherServlet that dispatches requests to handlers, with configurable handler mappings, view resolution, locale and theme resolution as well as support for uploading files. The default handler is based on the @Controller and @RequestMapping annotations, offering a wide range of flexible handling methods.

In Spring Web MVC you can use any object as a command or form-backing object; you do not need to implement a framework-specific interface or base class. Spring's data binding is highly flexible: for example, it treats type mismatches as validation errors that can be evaluated by the application, not as system errors. Thus you need not duplicate your business objects' properties as simple, un-typed strings in your form objects simply to handle invalid submissions, or to convert the Strings properly. Instead, it is often preferable to bind directly to your business objects.

Spring's view resolution is extremely flexible. A Controller is typically responsible for preparing a model Map with data and selecting a view name but it can also write directly to the response stream and complete the request. View name resolution is highly configurable through file extension or Accept header content type negotiation, through bean names, a properties file, or even a custom View Resolver implementation. The model (the M in MVC) is a Map interface, which allows for the complete abstraction of the view technology. You can integrate directly with template based rendering technologies such as JSP, Velocity and Free marker, or directly generate XML, JSON, Atom, and many other types of content. The model Map is simply transformed into an appropriate format, such as JSP request attributes, a Velocity template model.





**Features of Spring Web MVC:**

- *Clear separation of roles.* Each role — controller, validator, command object, form object, model object, DispatcherServlet, handler mapping, view resolver, and so on — can be fulfilled by a specialized object.
- *Powerful and straightforward configuration of both framework and application classes as JavaBeans.* This configuration capability includes easy referencing across contexts, such as from web controllers to business objects and validators.
- *Adaptability, non-intrusiveness, and flexibility.* Define any controller method signature you need, possibly using one of the parameter annotations (such as @RequestParam and more) for a given scenario.
- *Reusable business code, no need for duplication.* Use existing business objects as command or form objects instead of mirroring them to extend a particular framework base class.

- *Customizable binding and validation.* Type mismatches as application-level validation errors that keep the offending value, localized date and number binding, and so on instead of String-only form objects with manual parsing and conversion to business objects.
- *Customizable handler mapping and view resolution.* Handler mapping and view resolution strategies range from simple URL-based configuration, to sophisticated, purpose-built resolution strategies. Spring is more flexible than web MVC frameworks that mandate a particular technique.
- *Flexible model transfer.* Model transfer with a name/value Map supports easy integration with any view technology.
- *Customizable locale and theme resolution support for JSPs with or without Spring tag library, support for JSTL, support for Velocity without the need for extra bridges, and so on.*

**Hibernate:-**

Hibernate is an object-relational mapping (ORM) library for the Java language, providing a framework for mapping an object-oriented domain model to a traditional relational database. Hibernate solves object-relational impedance mismatch problems by replacing direct persistence-related database accesses with high-level object handling functions.

Hibernate is free as open source software that is distributed under the GNU Lesser General Public License. Rather than utilize byte code processing or code generation, Hibernate uses runtime reflection to determine the persistent properties of a class. The objects to be persisted are defined in a mapping document, which serves to describe the persistent fields and associations, as well as any subclasses or proxies of the persistent object.

The mapping documents are compiled at application startup time and provide the framework with necessary information for a class. Additionally, they are used in support

operations, such as generating the database schema or creating stub Java source files.

Hibernate's primary feature is mapping from Java classes to database tables (and from Java data types to SQL data types). Hibernate also provides data query and retrieval facilities. Hibernate generates the SQL calls and relieves the developer from manual result set handling and object conversion, keeping the application portable to all supported SQL databases, with database portability delivered at very little performance overhead.

## Features of Hibernate:-

### 1. Mapping:

Mapping Java classes to database table is accomplished through the configuration of an XML file or by using Java Annotation. When using an XML file, Hibernate can generate skeletal source code for the persistence classes. This is unnecessary when annotation is used.

Hibernate can use the XML file or the annotation to maintain the database schema.

Facilities to arrange one-to-many and many-to-many relationships between classes are provided. In addition to managing association between objects, Hibernate can also manage reflexive associations where an object has a one-to-many relationship with other instances of its own type.

Hibernate supports the mapping of custom value types. This makes the following scenarios possible:

- Overriding the default SQL type that Hibernate chooses when mapping a column to a property.

- Mapping Java Enum to columns as if they were regular properties.
- Mapping a single property to multiple columns.

## 2. Persistence:

Hibernate provides transparent persistence for Plain Old Java Objects (POJOs). The only strict requirement for a persistent class is a no-argument constructor, not compulsorily *public*. Proper behavior in some applications also requires special attention to the `equals()` and `hashCode()` methods.

Collections of data objects are typically stored in Java collection objects such as `Set` and `List`. Java Generics can be used in Java 5 and higher. Hibernate can be configured to lazy load associated collections. Lazy loading is the default as of

Hibernate 3.

Related objects can be configured to cascade operations from one to the other. For example, a parent such as an `Album` object can be configured to cascade its `save` and/or `delete`

operation to its child Track objects. This can reduce development time and ensure referential integrity. A dirty checking feature avoids unnecessary database write actions by performing SQL updates only on the modified fields of persistent objects.

### 3. Hibernate Query Language (HQL)

Hibernate provides a SQL inspired language called Hibernate Query Language (HQL) which allows SQL-like queries to be written against Hibernate's data objects. Criteria Queries are provided as an object-oriented alternative to HQL.

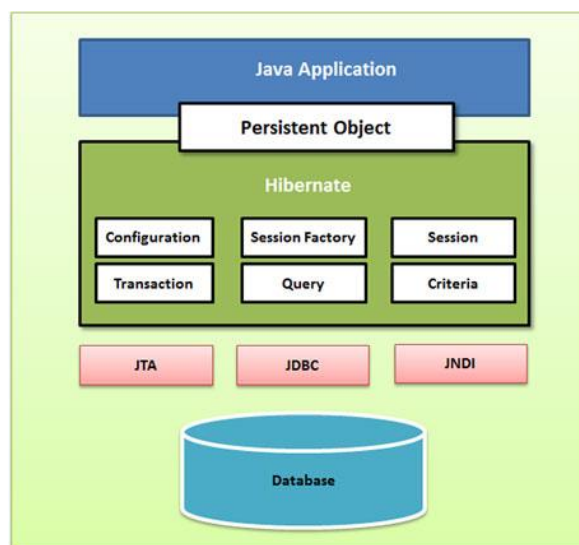


Figure: Hibernate Architecture

**SQLYog:-**

SQLyog is the most powerful MySQL manager and admin tool, combining the features of MySQL Administrator, phpMyAdmin and other MySQL Front Ends and MySQL GUI tools.

**Features:-**

- Data manipulations (INSERT, UPDATE, and DELETE) may be done from a spreadsheet-like interface. Both raw table data and a result set from a query can be manipulated.
- Rich context menus etc. for performing common tasks without writing SQL.
- Visual Schema Designer.
- Visual Query Builder.
- Query Formatter.
- Connectivity options: Direct client/server using MySQL API (SSL supported), HTTP/HTTPs Tunneling, SSH Tunneling.
- Wizard driven Tool for import of data from ODBC-databases



- Backup Tool for performing unattended backups. Backups may be compressed and optionally stored as a file-per-table as well as identified with a timestamp.
- 'SQL Scheduler and Reporting Tool' - a tool for scheduling and automating execution of any sequence of SQL statements. Result of queries may be sent as HTML-formatted reports.
- Schema/Structure Synchronization and Data Synchronization.
- Query Profiler and Redundant Index Finder.
- Optionally portable. All files used by SQLyog may be saved to a removable drive etc.
- Foreign key lookup.

## CHAPTER 2

# PROPOSED SYSTEM

## **Proposed System**

The proposed System is known as “Web Based Learning and Teaching.”

It aims to provide comprehensive access to digital content (Power point presentations, textual etc. resources) to every student, faculty and staff of the educational institute.

Universities have a knowledge base of different topics, research papers, seminar notes, etc. which is in different formats. These formats may include material in CDs, hardcopies and softcopies in various formats. This information can be consolidated and organized so that it can be accessible to students and faculty members based on their specific needs.

**Purpose:**

- The main objective of the proposed system is to consolidate and organized all the study material so that it can be easily accessible to students and faculty members based on their specific needs.
- Digital Learning and Teaching.
- To provide the user with a faster system.
- To give security to the system by Login and password.
- Design a system which is user friendly and easy to use as well as correct as per the requirements.
- To provide simple and easy to use entry screens that requires minimum data entry for user.
- It will help the educational institutes to manage their schedule and provide a convenient way to teachers to teach.
- To make learning interesting to the students as they get all the information under one roof.

## Objectives of System

The Web Based Learning and Teaching System is aims to organize all study material of the university as well as optimize the overall management of institute, faculty and student. It also provides comprehensive access to digital content (Power point presentations, textual etc. resources) to every student, faculty and staff of the educational institute.

### Key Objectives of System:

- Provide consolidated and organized information in easy and understandable format to students.
- To help the educational institute to manage their schedule and provide a convenient way to teachers to teach.
- To help institute admin to allocate class and subject to faculty.
- Scheduling of timetable is easy for institute admin.
- Helps faculty to plan their schedule for entire semester for particular class.

- This system is to maintain insert accurate and update data required for institute.
- Provide easy way to add or upload content to system.
- Digital Learning and Teaching.
- Provide easy access to user.
- Provides security to contents.
- To make teaching and learning more interactive.

## **User Requirements**

As system is developed for institute they are having following requirements:

- User Friendly:

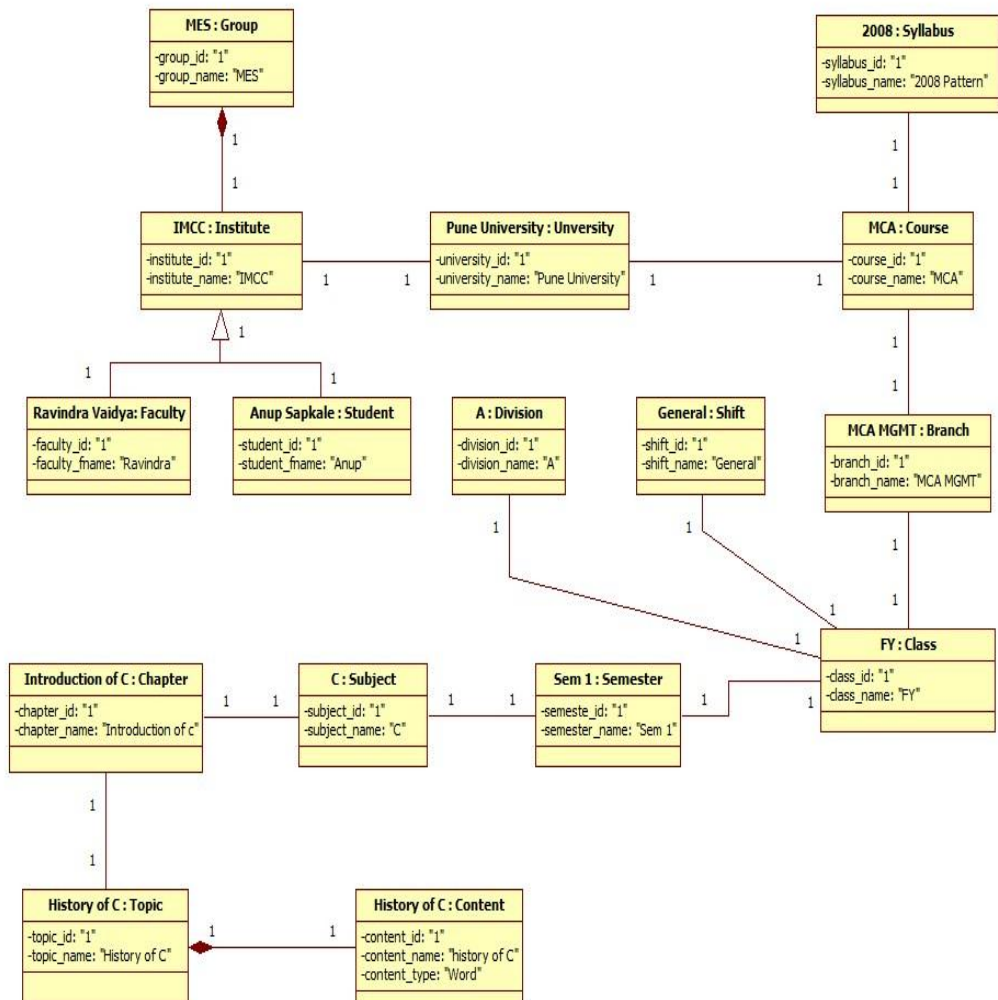
As this system is mainly used by student and faculty of institute so it should be more user friendly.

The content should be more specific and in understandable format.

Response of system should be fast.

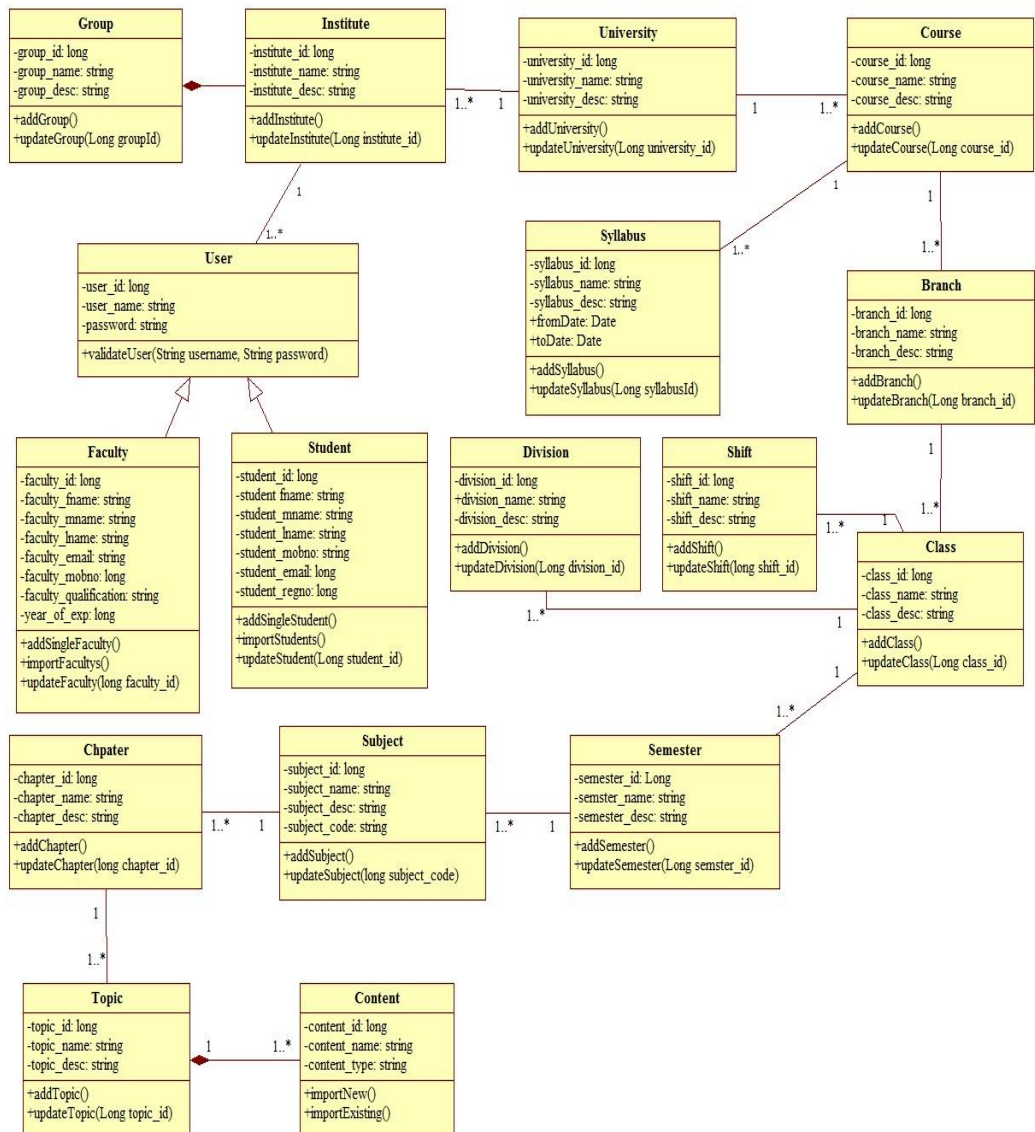
- This system should provide some security settings like password for each user.
- Provides easy access to specific data.

## Object Diagram

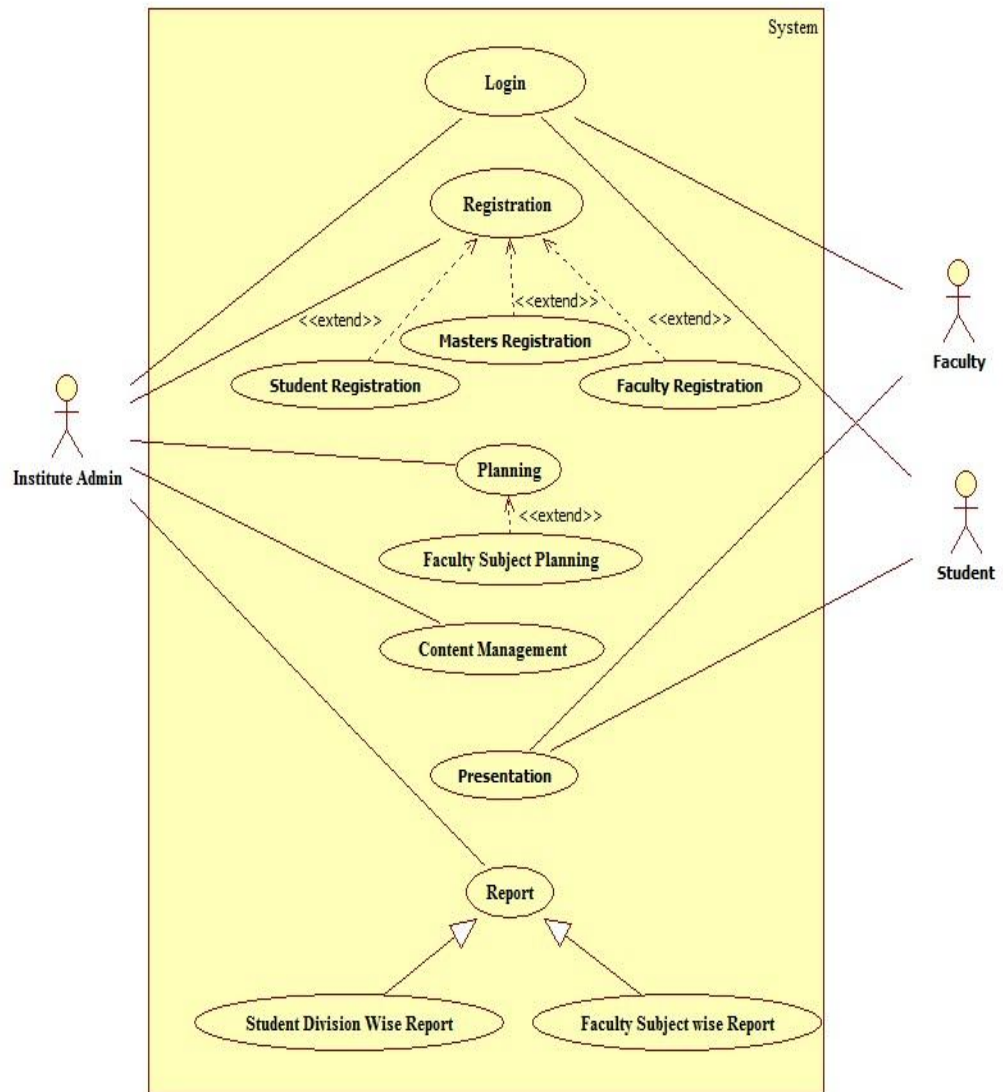




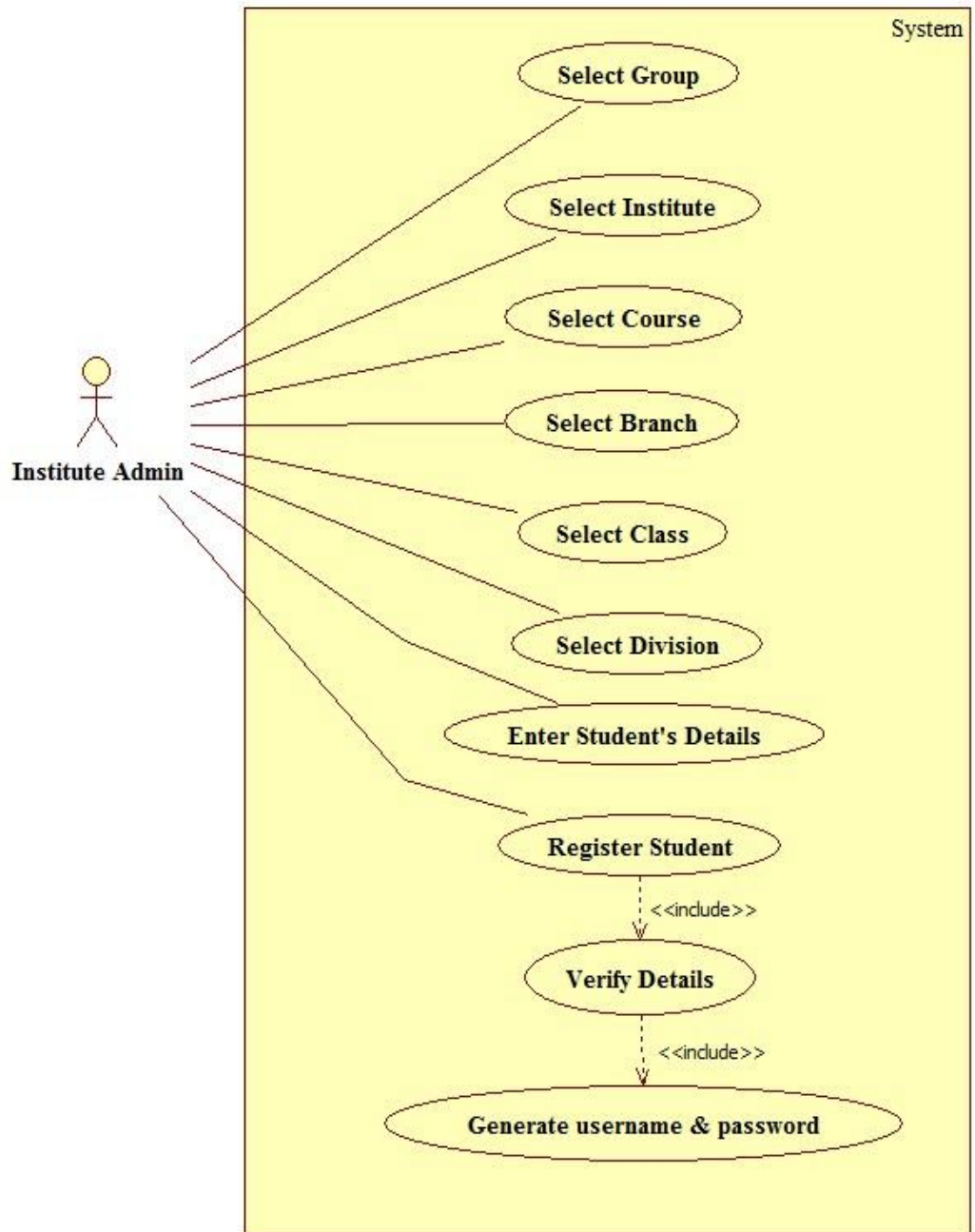
## Class Diagram



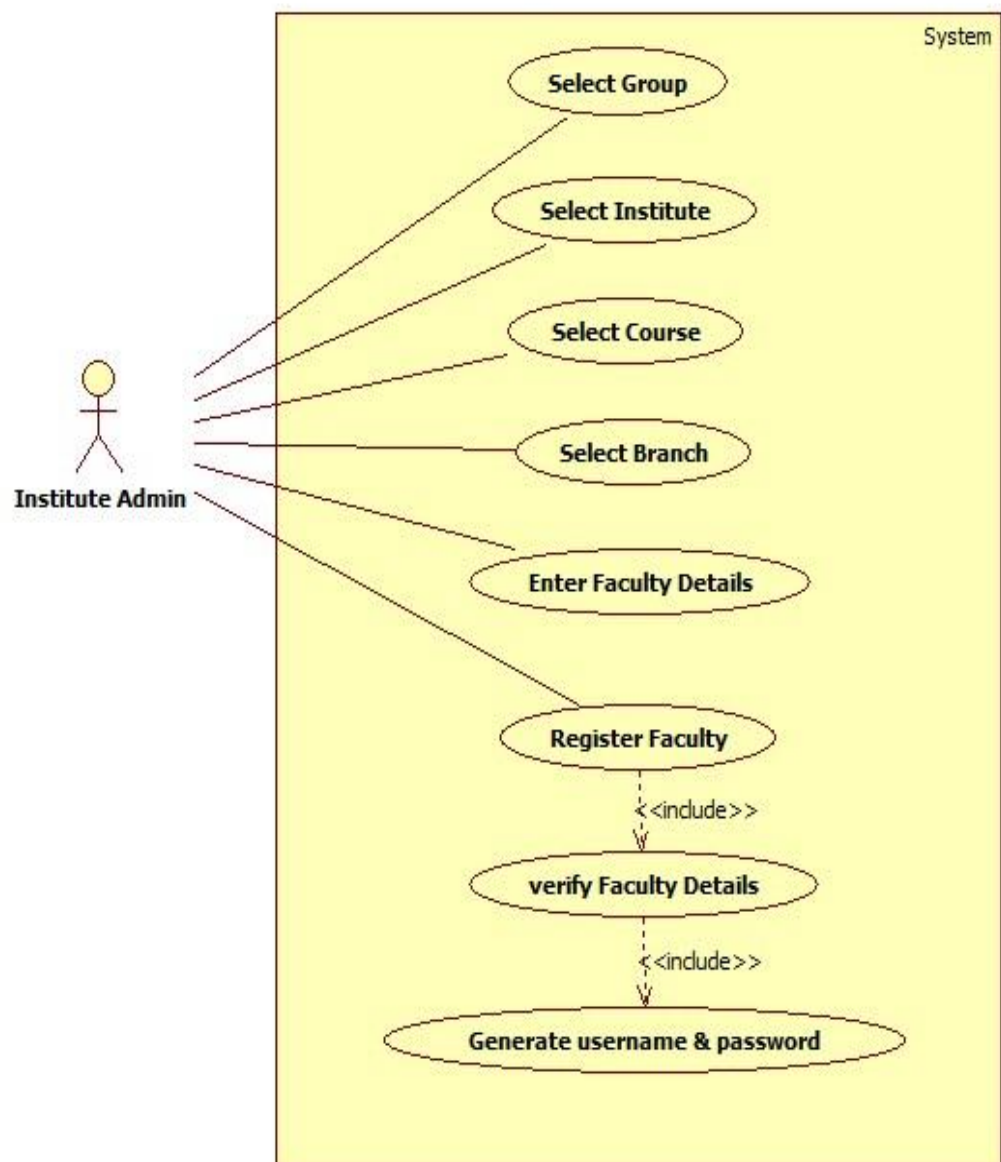
### Use Case Diagram of System



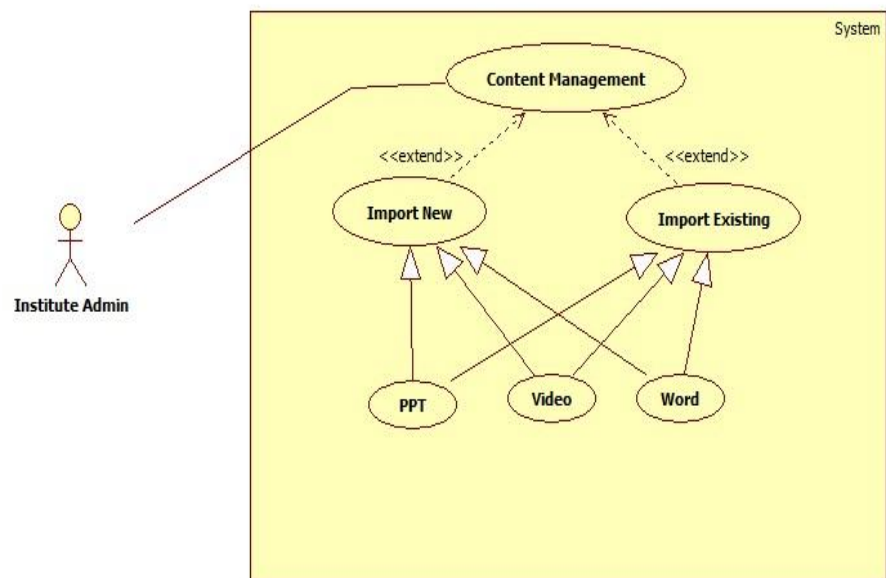
### Use case Diagram for Student Registration



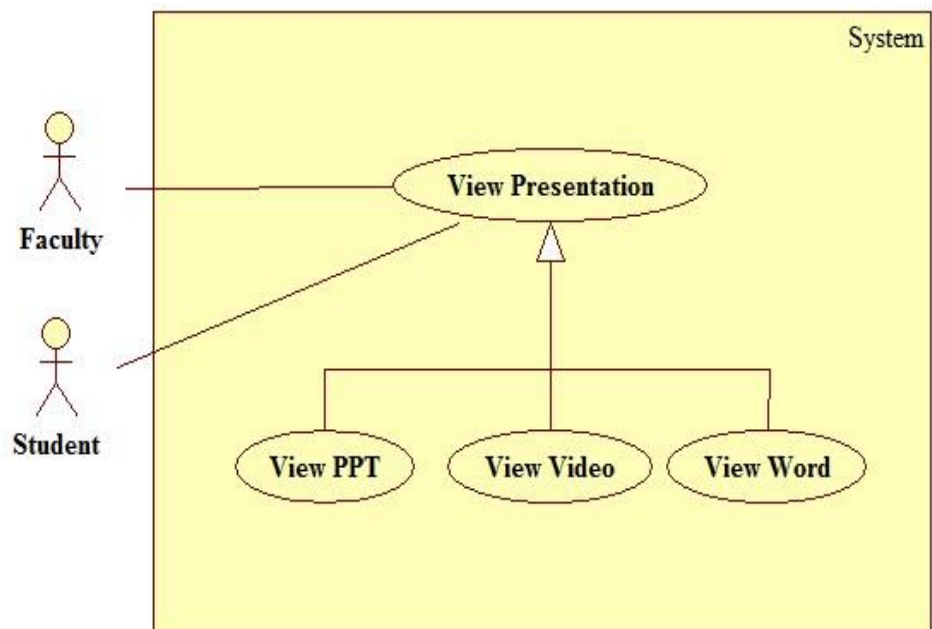
## Use case Diagram for Faculty Registration



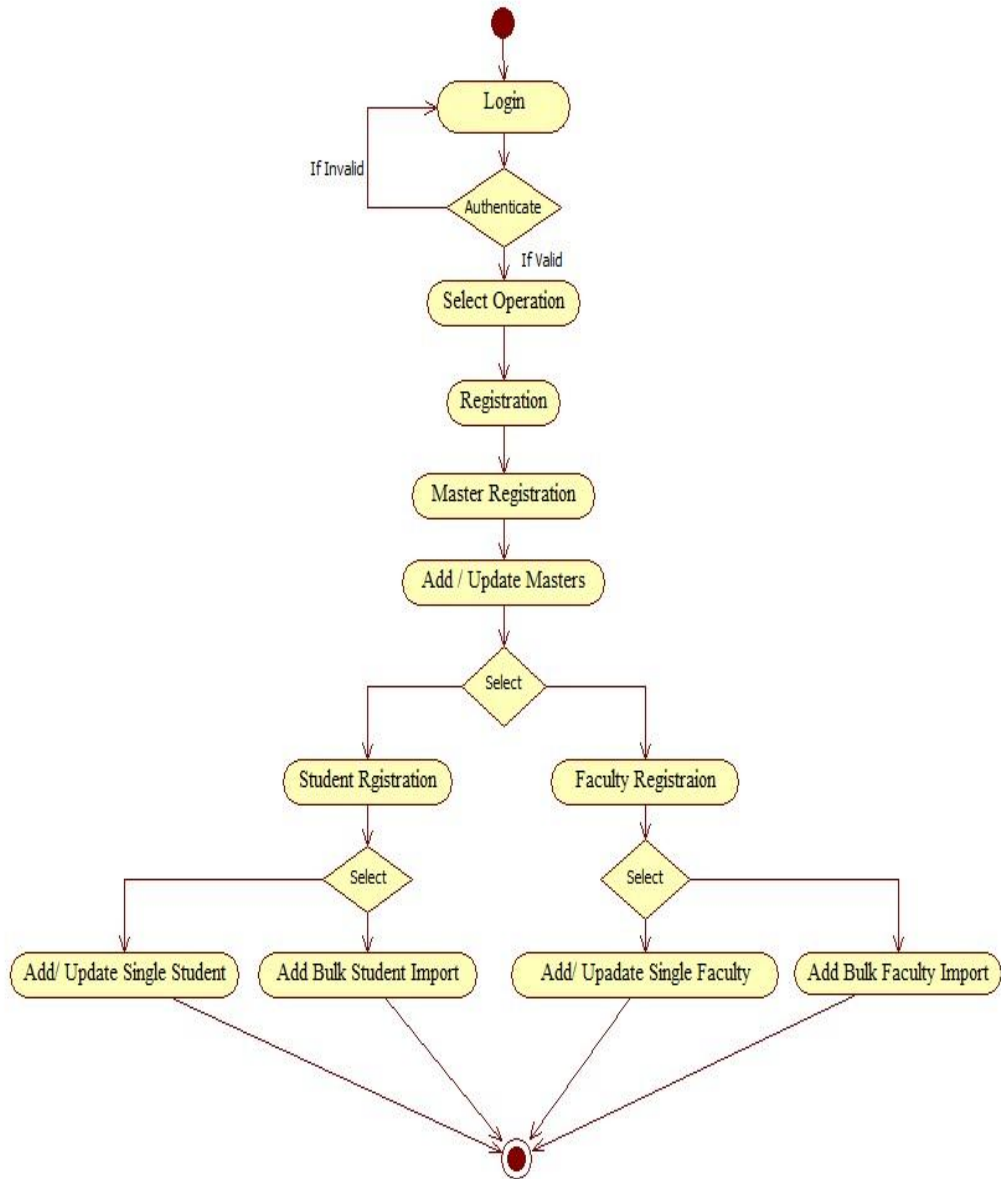
### Use Case Diagram for Content Management



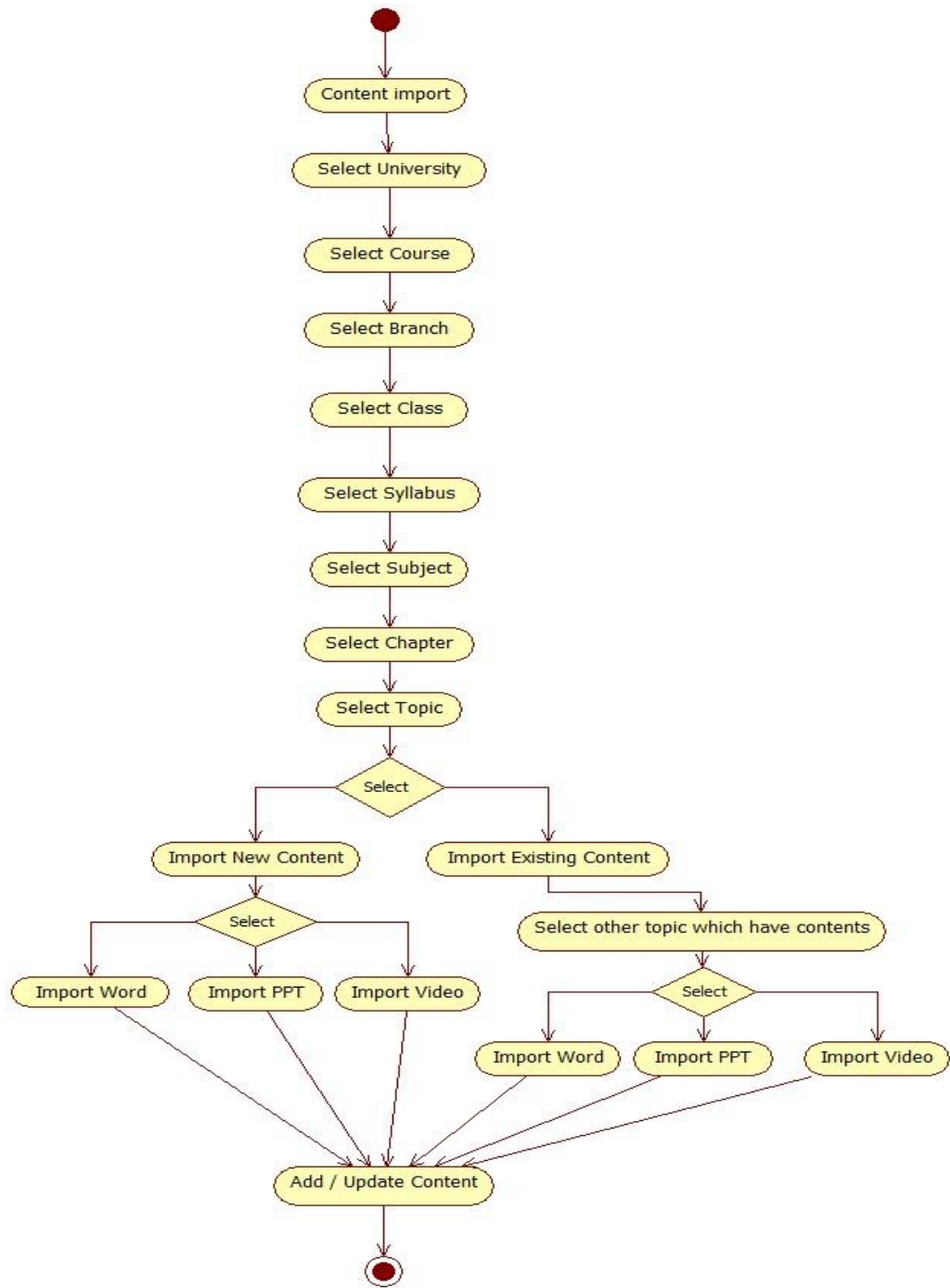
## Use Case Diagram for Presentation



### Activity Diagram for Registration

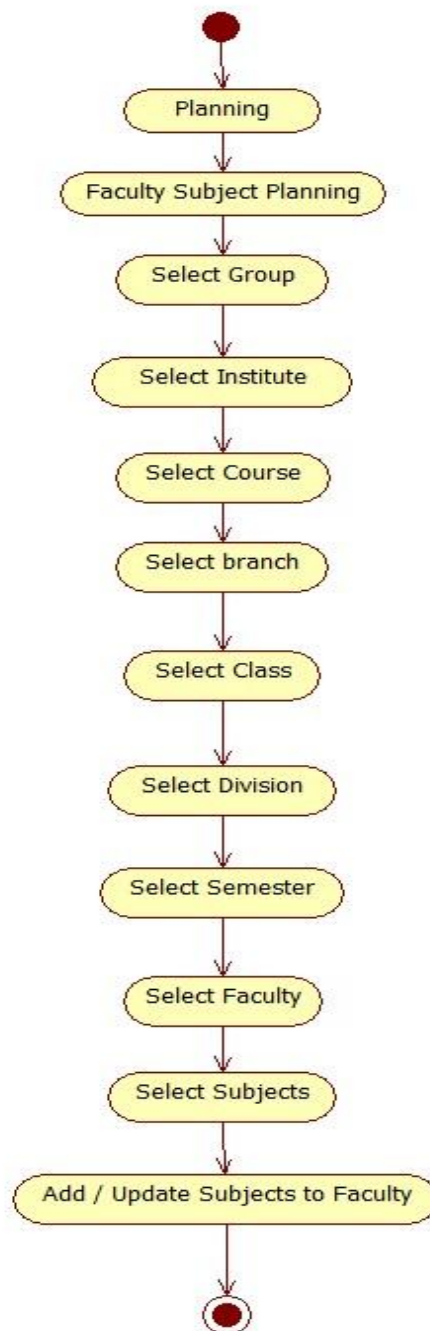


### Activity Diagram for Content Import

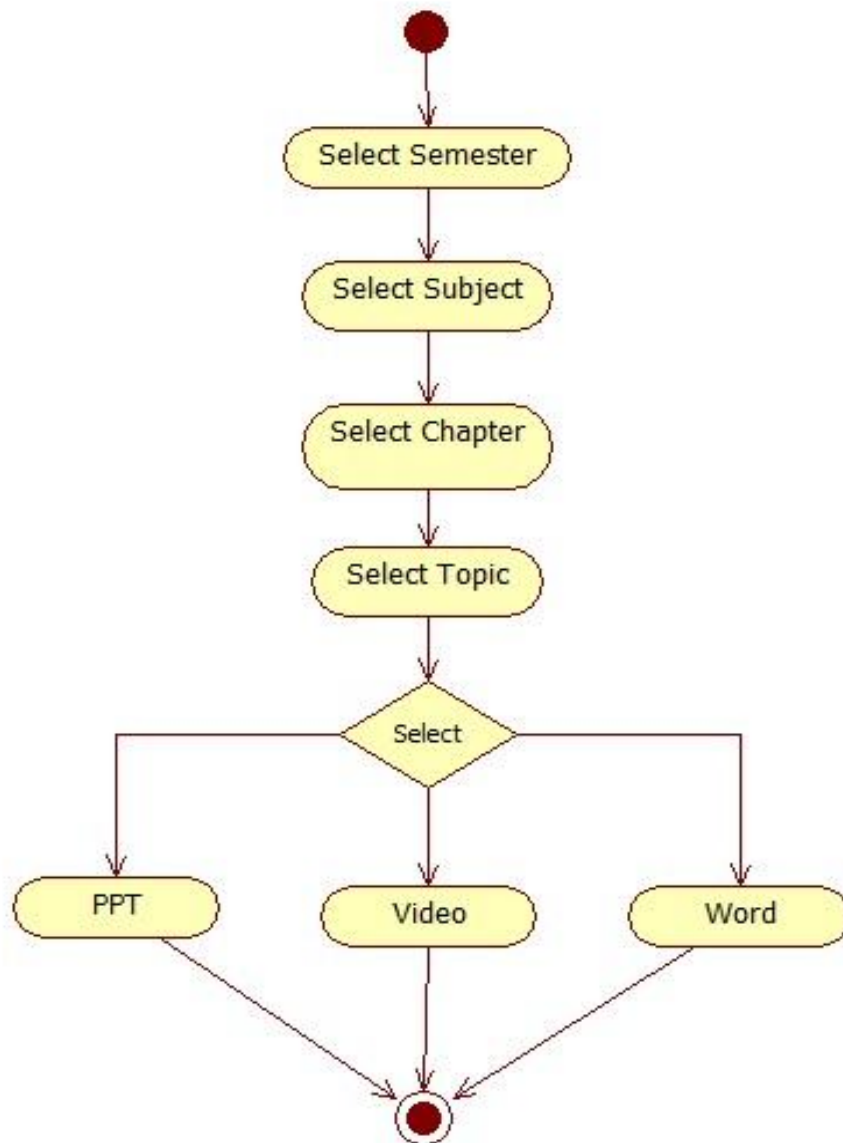




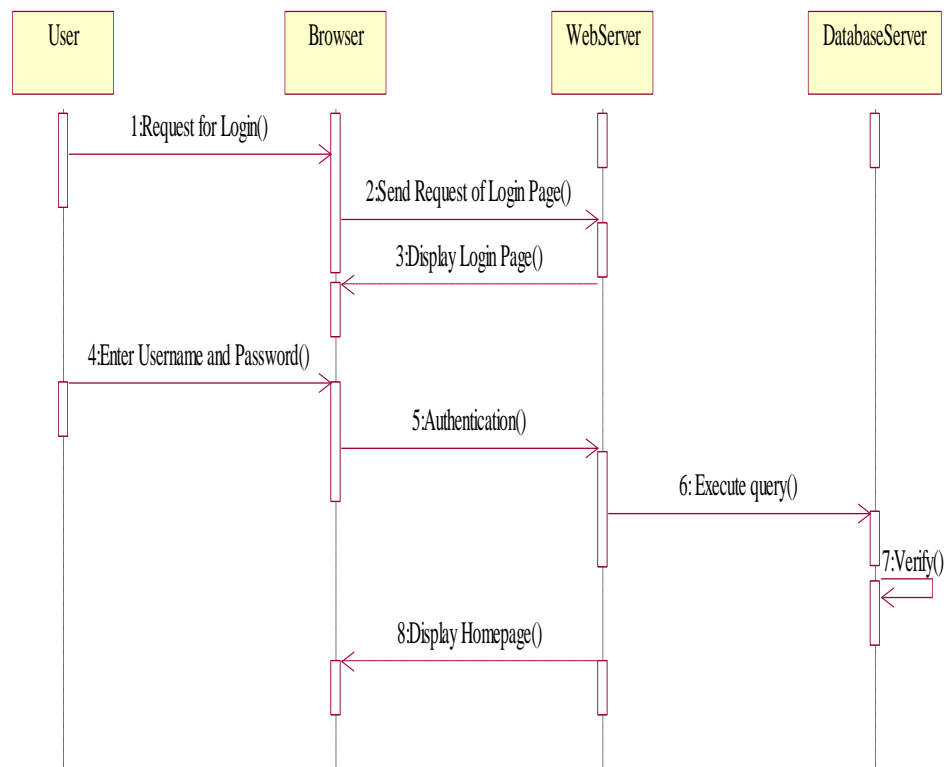
## Activity Diagram for Planning



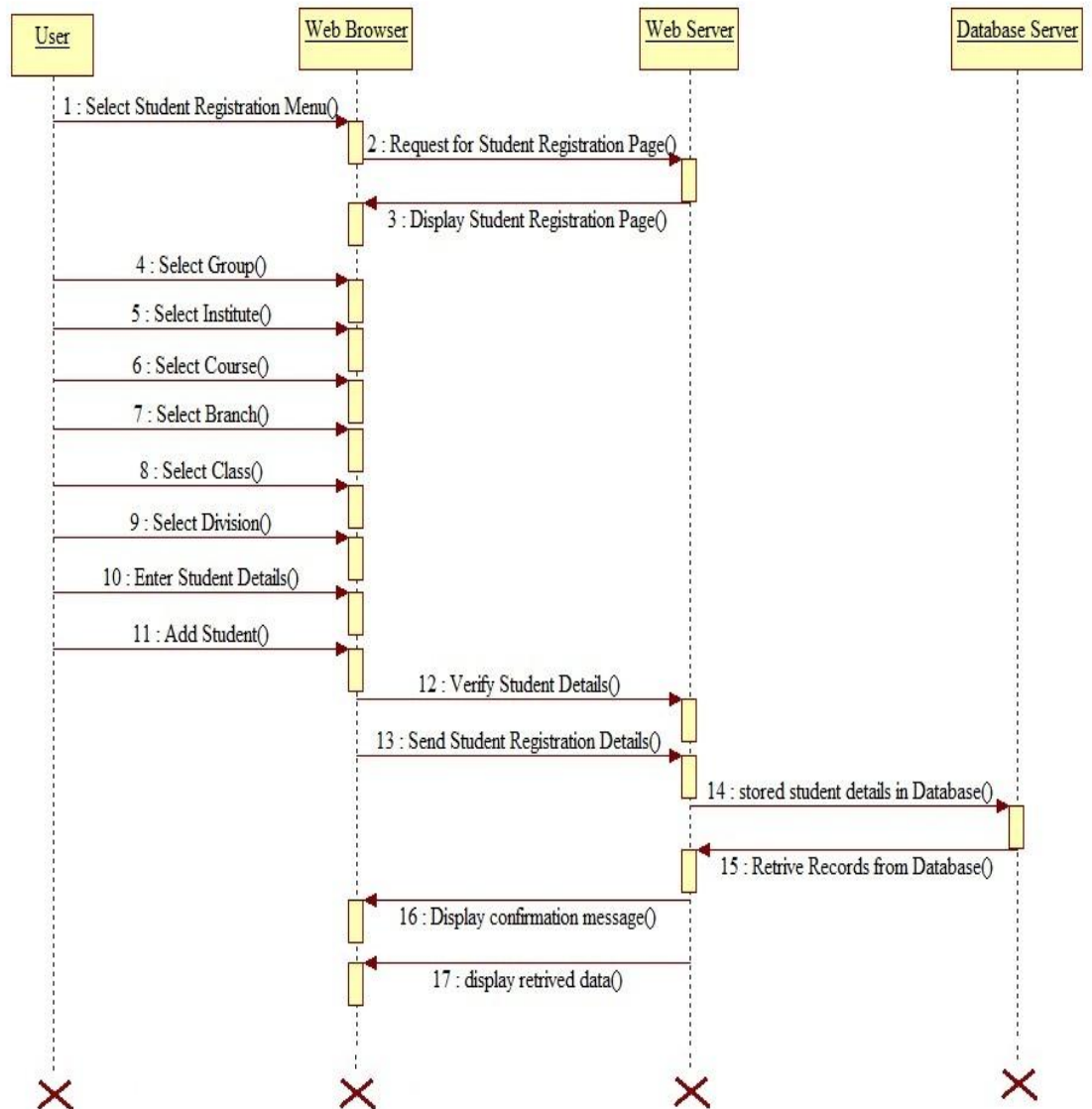
## Activity Diagram for Presentation



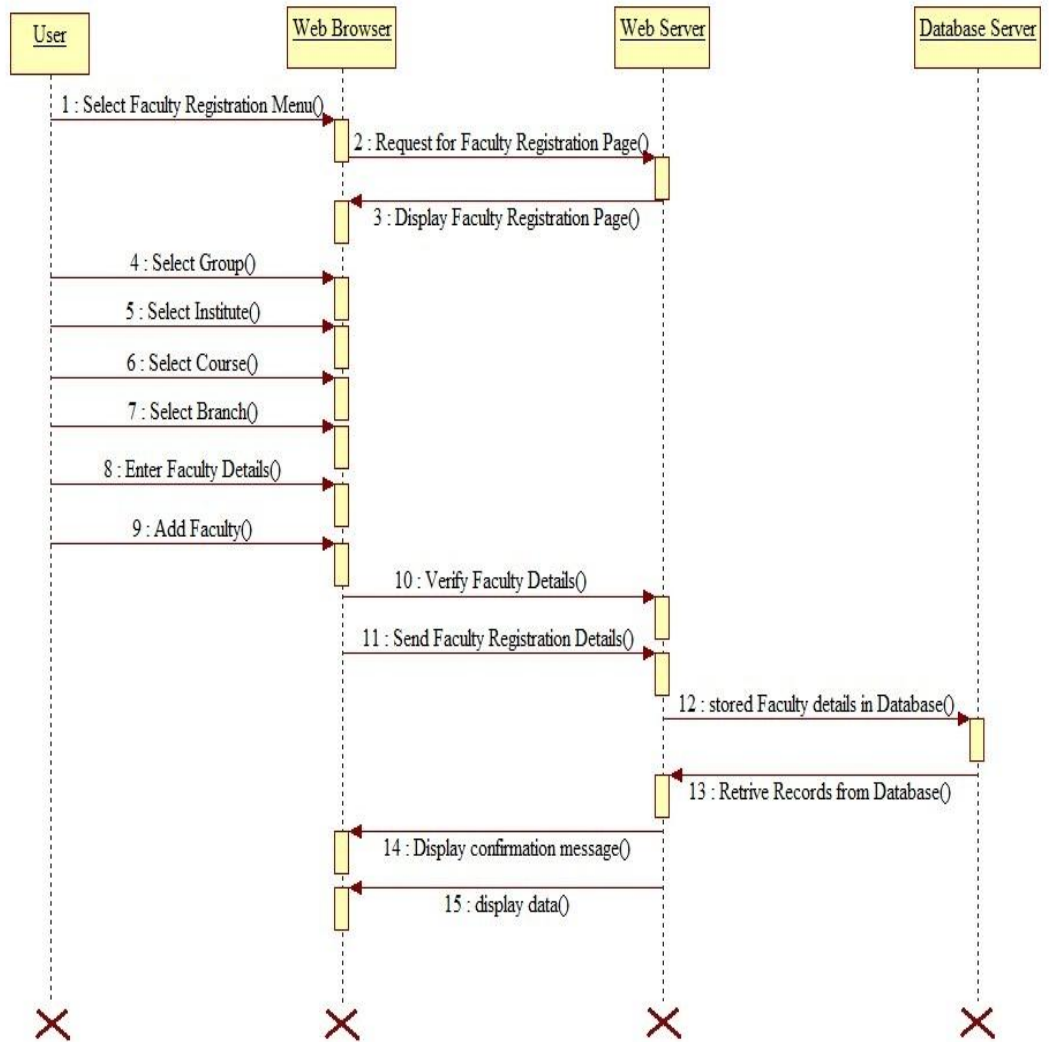
## Sequence Diagram for Login



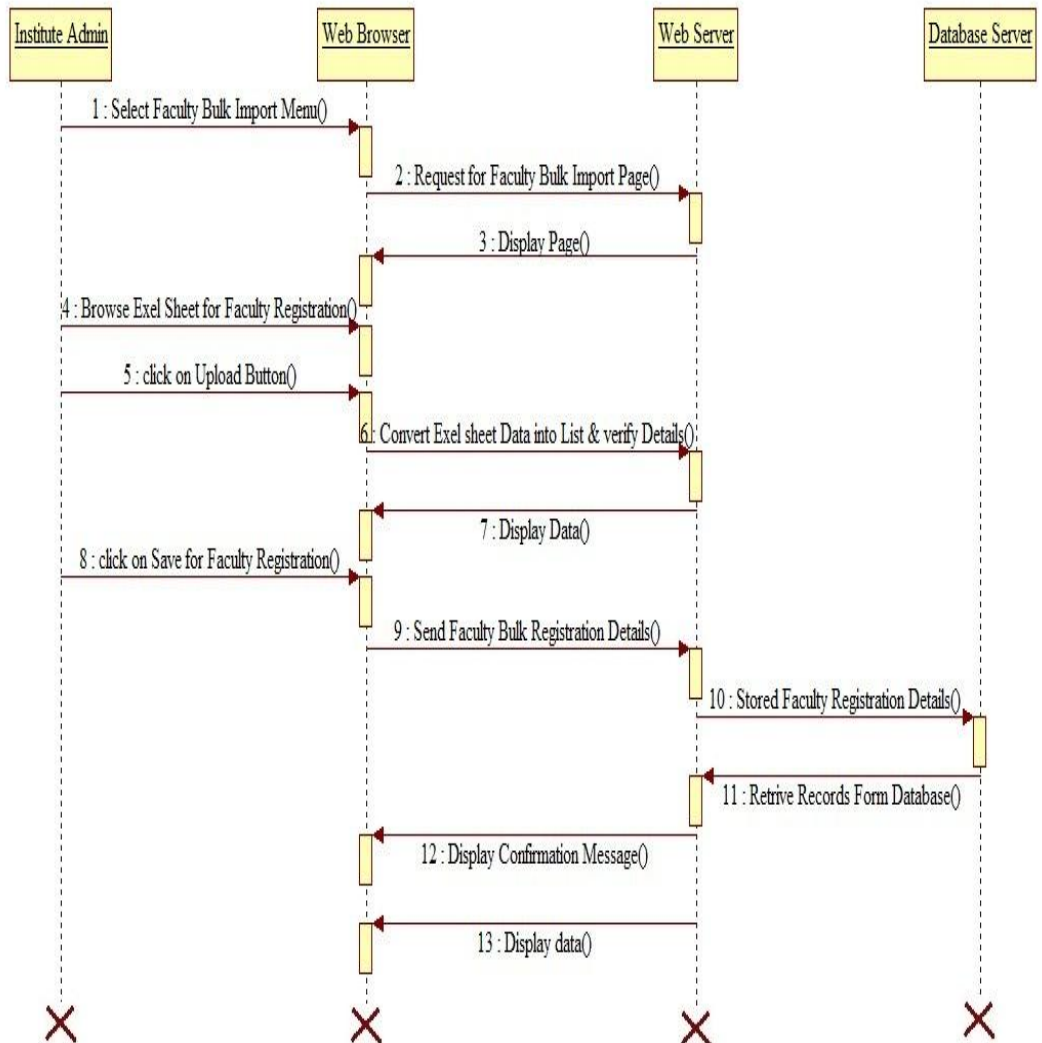
### Sequence Diagram for Student Registration



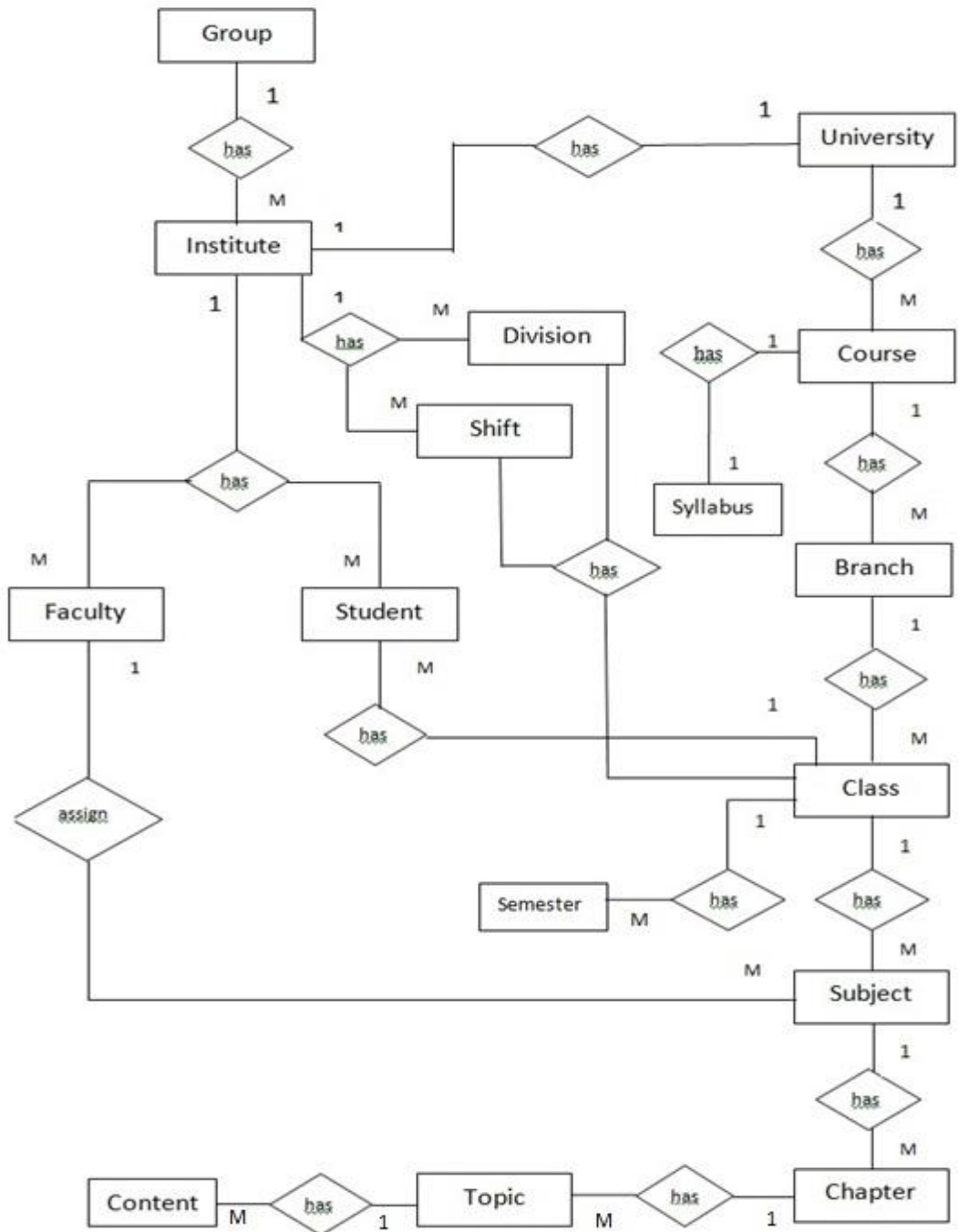
### Sequence Diagram for Faculty Registration



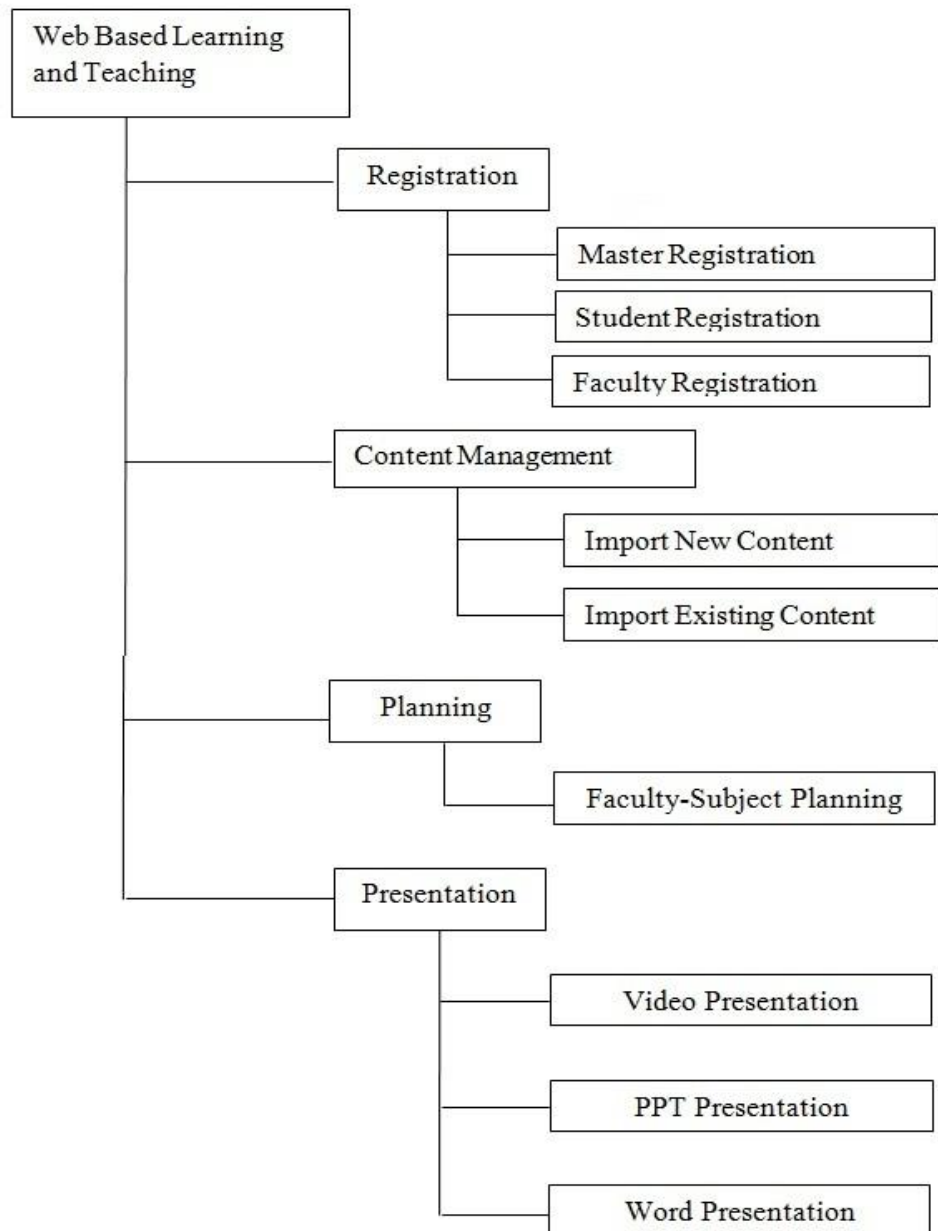
## Sequence Diagram for Presentation



### Entity Relationship Diagram

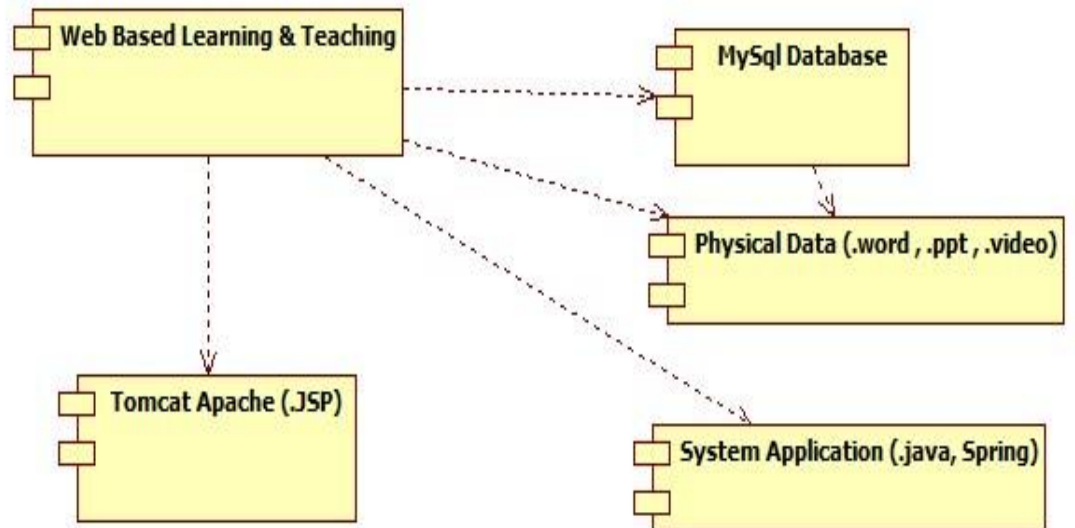


## Module Hierarchy Diagram





## Component Diagram



## Module Specification

The actual process of the system can be modularized into following different modules:-

1. Registration
2. Content Management
3. Planning
4. Presentation

### 1. **Registration Module:-**

“Institute \_Admin” role will be able to perform –

- **Master Registration :**  
All master data will be inserted into database and they also bind with each other.
- **Student Registration:**  
Individual student as well as bulk students will be registered into WEB BASED LEARNING. By default all the registered student will have their user role as “Student”. Bulk update facility is also provided.

- **Staff Registration:**  
All staff members of the institute will be registered into WEB BASED LEARNING. Each and every staff member will be mapped with their role in the institute. Staff members will be mapped to one or more roles depending upon his/her profile/responsibilities in the institute.
- “Institute\_Admin” will also be able to update the above entities.

## **2. Content Management:**

Institute Admin will insert contents to specific topic of chapter. Contents can be ppt file, video file or word file. He can insert or update this entity.

## **3. Planning Module:**

Planning module will allow the Institute Administrator and individual teaching staff to plan for the entire semester. The Planning module will have following sub-modules:

- **Subject Faculty Planning:**

Subject Faculty Planning is accessible to Institute Administrator. This module will allow the Institute Administrator to allocate the course, class, division, shift, subjects and periods to the teaching staff.

**4. Presentation Module:-**

Faculty/Student will select subject, chapter and topic. All the learning material pertaining to the selection will be displayed video, PPT and Word file will be available on the page for viewing. User can click and select the learning media.

## User Interface Design

### Login Screen



### Group

Group:


Group Name

Group Description

List of all Groups:  
One item found.1

Sn.No.	Group Name	Group Description	Action
1	MES	Maharashtra Education Society	<a href="#">Update</a>

## Institute Registration



Web Based Learning & Teaching

Welcome instituteadmin | [logout](#) | Date: Thu May 02 11:25:59 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Institute:

Select Group

Institute Name

Institute Address

Email Id

Institute Description

Phone Number

[Add](#) [Cancel](#)

List of all Institutes:

One item found.1

Sr.No.	Institute Name	Institute Address	Institute Phone No.	Action
1	IMCC	131, Mayur Colony, Kothrud,Pune	02025466271	<a href="#">Update</a>

## University Registration



Web Based Learning & Teaching

Welcome instituteadmin | [logout](#) | Date: Thu May 02 11:26:33 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

University

University Name

University Description

[Add](#) [Cancel](#)

List of all University:

One item found.1

Sr.No.	University Name	University Description	Action
1	Pune University	University of Pune	<a href="#">Update</a>

## Course Registration

**PROgILE**  
Edutech
Web Based Learning & Teaching

Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:27:05 IST 2013

[Masters](#) | [Institute Configuration](#) | [Content Management](#) | [Institute Masters](#) | [Faculty Subject Planning](#) | [Reports](#)

Course:

Course Name:

Course Description:

[Add](#) [Cancel](#)

List of all Courses:

One item found.1

Sr.No.	Course Name	Course Description	Action
1	MCA	Master in Computer Application	<a href="#">Update</a>

## Institute Configuration

**PROgILE**  
Edutech
Web Based Learning & Teaching

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Select the following:

Select Group:       Select Institute:

Select University:       No. of Courses:

[Add](#) [Cancel](#)

Insert Details:


Sr. No	Course	No. of Branches	Branch	Class	Syllabus
<a href="#">Save</a> <a href="#">Cancel</a>					

Institute Configuration :

One item found.1

Sr.No.	Group Name	Institute Name	University Name	Course Name	Branch Name	Class Name	Syllabus Name
1	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008

## Chapter Registration



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Masters
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Reports

Chapter:

Select University:

Select Branch:

Select Syllabus:

Enter No. of Chapters:

Select Course:

Select Class:

Select Subject:

[Add](#) [Cancel](#)

Insert Chapter:


Sr. No.	Chapter Number	Chapter Name	Chapter Description
<a href="#">Save</a> <a href="#">Cancel</a>			

List of all Chapters:

5 items found, displaying all items. 1

Sr.No.	University Name	Course Name	Branch Name	Class	Syllabus	Subject Name	Chapter No	Chapter Name	Chapter Description	Action
1	Pune University	MCA	MCA.MGMT	FY	2008	C	1	Introduction of C	Introduction of C	<a href="#">Update</a>
2	Pune University	MCA	MCA.MGMT	FY	2008	C	2	Data Types in C	Data Types in C	<a href="#">Update</a>
3	Pune University	MCA	MCA.MGMT	FY	2008	C	3	Pointers	Pointers	<a href="#">Update</a>
4	Pune University	MCA	MCA.MGMT	FY	2008	C	4	Fuctions	Fuctions	<a href="#">Update</a>
5	Pune University	MCA	MCA.MGMT	FY	2008	C	5	File Handling in C	File Handling in C	<a href="#">Update</a>

## Topic Registration



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Masters
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Reports

Select the following:

Select University:

Select Course:

Select Class:

Select Subject:

Enter Number of Topics:  [Add](#)

Select Branch:

Select Syllabus:

Select Chapter:

Insert Topic details:

Sr. No.	Topic Number	Topic Name	Topic Description
<a href="#">Save</a> <a href="#">Cancel</a>			

List of all Topics:

2 items found, displaying all items. 1

Sr.No.	Branch	Class	Syllabus	Subject Name	Chapter Name	Topic No	Topic Name	Topic Description	Action
1	MCA.MGMT	FY	2008	C	Introduction of C	1	Introduction	Introduction	<a href="#">Update</a>
2	MCA.MGMT	FY	2008	C	Introduction of C	2	History of C	Introduction	<a href="#">Update</a>



## Content Management – Import New Screen

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Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Content Import:

Select University: Pune University  
 Select Branch: MCA MGMT  
 Select Syllabus: 2008  
 Select Chapter: Introduction of C  
 Select Course: MCA  
 Select Class: FY  
 Select Subject: C  
 Select Topic: History of C

Import Existing Import New

Show Data

New Imported Content:

Sr. No.	WORD	Sr. No.	PPT	Sr. No.	VIDEO
1	History of C.doc X	1	History of C.ppt X	1	History of C Programming.MP4 X

Existing Selected Content:  
File Name

Save Cancel

View Topic Content Data Details:

Progle Infotech - Mozilla Firefox  
localhost:8080/progle/Word1.htm

Content Import:

Browse... Upload

WORD	PPT	VIDEO
1 History of C.doc X	1 History of C.ppt X	1 History of C Programming.MP4 X

Save Cancel

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Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Content Import:

Select University: Pune University  
 Select Branch: MCA MGMT  
 Select Syllabus: 2008  
 Select Chapter: Introduction of C  
 Select Course: MCA  
 Select Class: FY  
 Select Subject: C  
 Select Topic: History of C

Import Existing Import New

Show Data

New Imported Content:

Sr. No.	WORD	Sr. No.	PPT	Sr. No.	VIDEO
1	History of C.doc X	1	History of C.ppt X	1	History of C Programming.MP4 X

Existing Selected Content:  
File Name

Save Cancel

View Topic Content Data Details:

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**Presentation:-**

**1. Word File Presentation :-**

The screenshot displays a web-based learning platform interface. At the top, there is a header with the logo 'PROGILE Edutech' and the text 'Web Based Learning & Teaching'. Below the header, a navigation bar includes a 'Media Center' link and a welcome message: 'Welcome Nishigandha.Joshi | Logout | Date: Thu Apr 25 17:45:23 IST 2013'. The main content area features a navigation menu with 'Select Semester' (Sam 1), 'Select Subject' (C), 'Select Chapter' (Introduction of C), and 'Select Topic' (History of C). The central content pane displays the following text:

**Session 1 – A First Glimpse at the C Language**

**Introduction to C**

C is a programming language that is used widely in industry either in its original form, or more widely in the object-oriented form C++.

You will find that a lot of business programming that takes place in Unix environments involves the writing of C programs. Many modern applications have been written in C++ - it was one of the first programming languages to comprehensively employ a rich set of object-orientated features. More modern language like C# and Java however have extended this further with principles such as the Interface (which makes the impossibly complex principle of multiple inheritance redundant) and name-spaces.

In Dennis M. Ritchie's words (one of the founders of C):-

C is quirky, flawed, and an enormous success. While accidents of history surely helped, it evidently satisfied a need for a system implementation language efficient enough to displace assembly language, yet sufficiently abstract and fluent to describe algorithms and interactions in a wide variety of environments.

**A Brief History of C**

The C Programming language was developed by Bell Laboratories in the early seventies. It was borne from two other languages – BCPL, which was closer to Assembly Language, and B, which introduced a lot of the structures that are use in C today. C introduced such things as character types and floating point arithmetic, structures, the preprocessor, and portability.

The principle aim of the object was to devise a language that was easy enough to understand to be "high-level" – i.e. understood by humans, but low-level enough to be applicable to the writing of systems-level software – in particular, the PDP-11 based Unix operating system. In this way, both flexibility and usability could be achieved. The idea was that the language should abstract the details of how the computer achieves its tasks in such a way as to ensure that C could be portable across different types of computers, and thus the Unix operating system could be compiled on other computers with a minimum of re-writing.

C as a language was in use by 1973, although extra functionality, such as new types, were introduced up until 1990.

In 1978, Brian Kernighan and Dennis M. Ritchie wrote the seminal work *The C Programming Language*, which is now the standard reference book for C.

The X3J11 committee produced a formal ANS standard for C in 1989, which became the standard ISO/IEC 9899-1990.

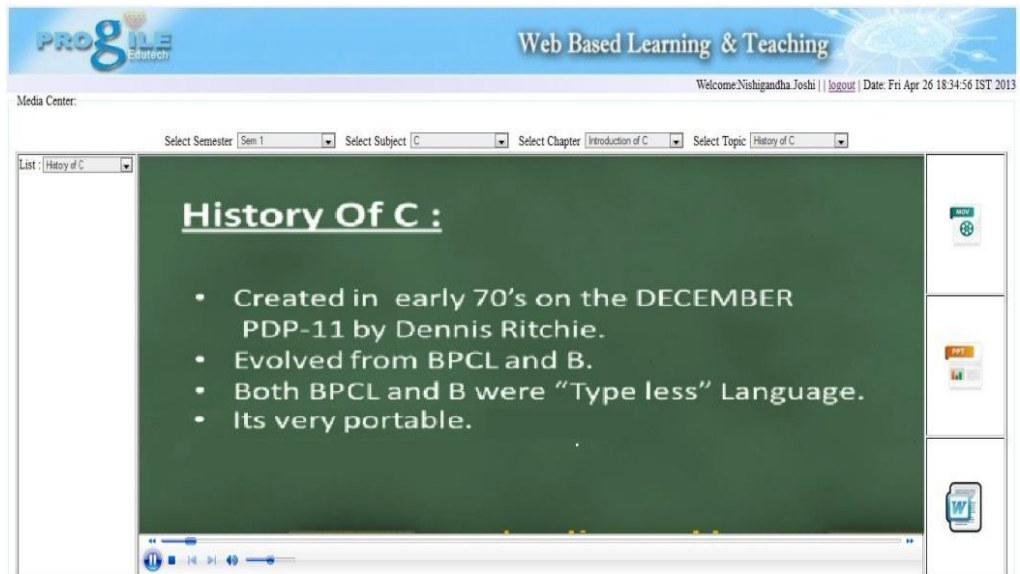
In 1986, a descendant of C, called C++ was developed by Bjarne Stroustrup, and has now become the standard C in use in industry today. Other versions of C were also developed, such as Concurrent C [89], Objective C [86], C\* [90] and most recently, Microsoft's C#.

For a more complete history, see Dennis M. Ritchie's web page at <http://cm.bell-labs.com/cm/cs/who/dmr/chist.html>

**2. PPT file Presentation :-**



### 3. Video File Presentation :-



### Data Dictionary

Sr.No	Field Name	Data Type	Size	Description	File Reference
1	branch_desc	varchar	100	Description of Branch	Branch
2	branch_name	varchar	50	Name of Branch	Branch
3	branch_id	bigint	20	Branch Id	Branch
4	chapter_desc	varchar	100	Description of Chapter	Chapter
5	chapter_id	bigint	20	Chapter Id	Chapter
6	chapter_name	varchar	50	Name of Chapter	Chapter
7	chapter_no	varchar	20	Chapter Number	Chapter
8	class_desc	varchar	100	Description of Class	Class
9	class_id	bigint	20	Class Id	Class
10	class_name	varchar	50	Name of Class	Class
11	course_desc	varchar	100	Description of Course	Course
12	course_id	bigint	20	Course Id	Course
13	course_name	varchar	50	Name of Course	Course
14	division_desc	varchar	100	Description of	Division

				Division	
15	division_id	bigint	20	Division Id	Division
16	division_name	varchar	50	Name of Division	Division
17	email_id	varchar	50	Email Id of Faculty	Faculty
18	emp_id	bigint	10	Employee Id	Faculty
19	faculty_id	bigint	20	Faculty Id	Faculty
20	first_name	varchar	50	First Name	Faculty
21	group_desc	varchar	100	Group Description	Group
22	group_id	bigint	20	Group Id	Group
23	group_name	varchar	50	Name of Group	Group
24	institute_address	varchar	200	Address of Institute	Institute
25	institute_desc	varchar	100	Description of Institute	Institute
26	institute_email	varchar	50	Email Id of Institute	Institute
27	institute_id	bigint	20	Institute Id	Institute
28	institute_name	varchar	100	Name of Institute	Institute
29	institute_phNo	varchar	20	Phone Number of Institute	Institute
30	last_name	varchar	50	Last Name of Faculty	Faculty
31	middle_name	varchar	50	Middle Name	Faculty
32	mob_no	bigint	20	Mobile Number	Faculty
33	password	varchar	50	Password	User
34	qualification	varchar	30	Qualification	Faculty
35	registration_no	varchar	50	Registration Number	Student
36	shift_desc	varchar	100	Shift Description	Shift
37	shift_id	bigint	20	Shift Id	Shift
38	shift_name	varchar	50	Shift Name	Shift
39	student_email	varchar	50	Email Id of Student	Student
40	student_fname	varchar	50	First Name of Student	Student
41	student_id	bigint	20	Student Id	Student
42	student_lname	varchar	50	Last Name of Student	Student
43	student_mname	varchar	50	Middle Name of Student	Student

44	student_phn_no	bigint	20	Phone Number of Student	Student
45	subject_desc	varchar	100	Description of Subject	Subject
46	subject_id	bigint	20	Subject Id	Subject
47	subject_name	varchar	50	Subject Name	Subject
48	topic_desc	varchar	100	Description of Topic	Topic
49	topic_id	bigint	20	Topic Id	Topic
50	topic_name	varchar	50	Name of Topic	Topic
51	topic_no	varchar	20	Topic Number	Topic
52	university_desc	varchar	100	University Description	University
53	university_id	bigint	20	University Id	University
54	university_name	varchar	50	University Name	University
55	update_by	varchar	20		
56	update_date	date		Update Date	
57	User_id	bigint	20	User ID	User
58	user_name	varchar	50	User Name	User
59	yrs_of_exp	int	3	Years of Experience	Faculty
60	content_id	bigint	20	Content Id	Content
61	content_name	varchar	50	Name of Content	Content
62	content_type	varchar	20	Type of Content	Content
63	semester_id	bigint	20	Semester ID	Semester
64	semester_name	varchar	50	Name of Semester	Semester
65	semester_description	varchar	50	Description of Semester	Semester
66	syllabus_id	bigint	20	Syllabus Id	Syllabus
67	syllabus_name	varchar	50	Name of Syllabus	Syllabus
68	syllabus_description	varchar	50	Description of Syllabus	Syllabus
69	from_date	date		From Date	Syllabus
70	to_date	date		To date	Syllabus

## Table Specification

### a. Group

Sr. No	Field Name	Data Type	Size	Constraint
1	group_id	bigint	20	Primary Key
2	group_name	varchar	50	Not Null
3	group_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null

### b. Institute

Sr. No	Field Name	Data Type	Size	Constraint
1	institute_id	bigint	20	Primary Key
2	group_id	varchar	50	Foreign Key
3	institute_name	varchar	100	Not Null
4	institute_desc	varchar	100	Null
5	institute_address	varchar	200	Null
6	institute_email	varchar	50	Null
7	institute_phNo	varchar	20	Null
8	update_by	varchar	20	Null
9	update_date	date		Null
10	group_id	bigint	20	Foreign key

### c. University

Sr. No	Field Name	Data Type	Size	Constraint
--------	------------	-----------	------	------------

1	university_id	bigint	20	Primary Key
2	university_name	varchar	50	Not Null
3	university_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	institute_id	bigint	20	Foreign key

d. Course

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	course_id	bigint	20	Primary Key
2	course_name	varchar	50	Not Null
3	course_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	university_id	bigint	20	Foreign key
7	syllabus_id	bigint	20	Foreign Key

e. Branch

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	branch_id	bigint	20	Primary Key
2	branch_name	varchar	50	Not Null



3	branch_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	course_id	bigint	20	Foreign Key

f. Class

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	class_id	bigint	20	Primary Key
2	class_name	varchar	50	Not Null
3	class_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	branch_id	bigint	20	Foreign Key
7	shift_id	bigint	20	Foreign Key
8	semester_id	bigint	20	Foreign key

g. Subject

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	subject_id	bigint	20	Primary Key
2	subject_name	varchar	50	Not Null

3	subject_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	class_id	bigint	20	Foreign Key

### 8. Chapter

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	chapter_id	bigint	20	Primary Key
2	syllabus_subject_id	bigint	20	Not Null
3	chapter_no	varchar	20	Not Null
4	chapter_name	varchar	50	Not Null
5	chapter_desc	varchar	100	Null
6	subject_id	bigint	20	Foreign Key

### 9. Topic

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	topic_id	bigint	20	Primary Key

2	chapter_id	bigint	20	Foreign Key
3	topic_no	varchar	20	Not Null
4	topic_name	varchar	50	Not Null
5	topic_desc	varchar	100	Null
6	chapter_id	bigint	20	Foreign key

### 10. Division

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	division_id	bigint	20	Primary Key
2	division_name	varchar	50	Not Null
3	division_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null
6	class_id	bigint	20	Foreign Key

### 11. Shift

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	shift_id	bigint	20	Primary Key

2	shift_name	varchar	50	Not Null
3	shift_desc	varchar	100	Not Null
4	update_by	varchar	20	Null
5	update_date	date		Null

## 12. Faculty

<b>Sr. No</b>	<b>Field Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>
1	faculty_id	bigint	20	Primary Key
2	first_name	varchar	50	Not Null
3	middle_name	varchar	50	Not Null
4	last_name	varchar	50	Not Null
5	mob_no	bigint	20	Not Null
6	email_id	varchar	50	Not Null
7	emp_id	bigint	10	Not Null
8	yrs_of_exp	int	3	Not Null
9	qualification	varchar	30	Not Null
11	course_id	bigint	20	Foreign Key
12	branch_id	bigint	20	Foreign Key

13	institute_id	bigint	20	Foreign Key
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### 13. Student

Sr. No	Field Name	Data Type	Size	Constraint
1	student_id	bigint	20	Primary Key
2	student_fname	varchar	50	Not Null
3	student_mname	Varchar	50	Not Null
4	student_lname	Varchar	50	Not Null
5	student_phn_no	Bigint	20	Not Null
6	student_email	Varchar	50	Not Null
7	registration_no	Varchar	50	Not Null
8	institute_id	Bigint	20	Foreign Key
9	class_id	Bigint	20	Foreign Key
10	division_id	Bigint	20	Foreign Key
11	shift_id	Bigint	20	Foreign Key

### 14. User

Sr. No	Field Name	Data Type	Size	Constraint
1	user_id	bigint	20	Primary Key
2	user_name	varchar	20	Not Null
3	password	varchar	20	Not Null
4	Role_id	Bigint	20	Foreign Key

### 15. Role

Sr. No	Field Name	Data Type	Size	Constraint
--------	------------	-----------	------	------------

1	role_id	bigint	20	Primary Key
2	role_name	varchar	50	Not Null
3	Role_description	varchar	50	Not Null

### 16. Syllabus

Sr. No	Field Name	Data Type	Size	Constraint
1	syllabus_id	bigint	20	Primary Key
2	syllabus_name	varchar	50	Not Null
3	syllabus_description	varchar	50	Not Null
4	from_date	date		Not Null
5	to_date	date		Not Null

### 17. Semester

Sr. No	Field Name	Data Type	Size	Constraint
1	semester_id	bigint	20	Primary Key
2	semester_name	varchar	50	Not Null
3	semester_description	varchar	50	Not Null

### 18. Content

Sr. No	Field Name	Data Type	Size	Constraint
--------	------------	-----------	------	------------

1	content_id	bigint	20	Primary Key
2	content_name	varchar	50	Not Null
3	content_type	varchar	20	Not Null
4	Topic_id	bigint	20	Foreign Key

### **Test Procedures and Implementation**

Software testing is the process used to help identify the correctness, completeness, security, and quality of developed computer software. Testing is a process of executing a program or application with the intent of finding errors. With that in mind, testing can never completely establish the correctness of arbitrary computer software. In other words, testing is criticism or comparison that is comparing the actual value with an expected one. An important point is that software testing should be distinguished from the separate discipline of software quality assurance, which encompasses all business process areas, not just testing.

**Testing Objectives:**

Testing is a process of executing a program with the intent of finding an error. A good test case is one that has a high-probability of finding an as-yet-undiscovered error.

A successful test is one that uncovers an as-yet-undiscovered error.

**Software Testing Techniques**

The importance of software testing and its impact on software cannot be underestimated. Software testing is a fundamental component of software quality assurance and represents a view of specification, design and coding.

The greater visibility of software systems and the cost associated with software failure are motivating factors for planning, through testing. It is not uncommon for a software organization to spend 40% of its effort on testing.

**Types of Testing:**



### **1. White Box Testing:**

White box testing is a test case design approach that employs the control architecture of the procedural design to produce test cases. Using white box testing approaches, the software engineering can produce test cases that

- Guarantee that all independent paths in a module have been exercised at least once
- Exercise all logical decisions
- Execute all loops at their boundaries and in their operational bounds
- Exercise internal data structures to maintain their validity.

### **Type of Test during White Box Approach:**

#### **Unit Testing:**

To verify the pieces of code against the design, to remove problems from the code, and to ensure that each component of the code executes according to functional and design specifications. Generally, developers do unit testing. b.

Integration Testing: To verify that each software unit interfaces correctly with other software units. Developers, also testers perform integration testing.

**Techniques & Tools:**

- a. Fault insertion – Coding tools
- b. String Test – GUI and Server test tools
- c. Error handling – Error handling Tools
- d. Statement coverage – Static and Dynamic Analyzers
- e. Decision coverage - Static and Dynamic Analyzers, Coverage Analysis Tools
- f. Condition coverage - Static and Dynamic Analyzers, Coverage analysis tools
- g. Path coverage - Static and Dynamic Analyzers, Coverage analysis tools
- h. Data flow coverage – Data modeling tools, Flow diagram editors
- i. Memory leak – Memory usage tools
- j. Cyclomatic complexity – Cyclomatic complexity Analyzers

**Black Box Approach**

Functional testing approach focuses on application Extern. We can call it as Requirements-based or Specifications-based.

**Characteristics:**

- a. Functionality
- b. Requirements, use, standards
- c. Correctness
- d. Business forms, Documents
- e. Does system meet business requirements?

### **Type of Test during Black Box Approach:**

#### **System Testing:**

System test demonstrates that all programs function works together as designed. This test is performed when all the individual component objects for a release have been integrated into a single system. Documented non-functional requirements such as performance, volume, stress, capacity and security are also verified. Particular attention is paid to regression testing during this phase

**User Acceptance Testing:**

The testing performed for or by user is called user acceptance testing or UAT. The purpose is to ensure that end users are satisfied with the functionality and performance of the system.

**Techniques & Tools:**

- a. Equivalence partitioning – Develop program code to perform tests
- b. Boundary value analysis – Develop program code to perform tests
- c. Cause-effect graphing – Flow graphing tools
- d. Random testing – GUI test tools
- e. Error Guessing – GUI test tools
- f. Regression testing – GUI / Server test tools
- g. Stress testing – Load test tools
- h. Replication testing - Load test tools
- i. Data Integrity testing – Data analysis tools
- j. Backup and recoverability testing – Load test tools / Server test tools / GUI test tools
- k. Configuration testing – Multi platform test tools
- l. Performance Testing – Load test tools
- m. m. Functional testing – Load test tools / GUI test tools / Server test tools
- n. Security testing – Security test tools

- o. Operational Readiness Testing – Load test tools / server / GUI tools
- p. User Acceptance testing – GUI test tools
- q. q. Compatibility / conversion testing – Load / GUI / Server test tools
- r. Benchmark Testing – Benchmarking tools
- s. Usability testing – Usability measurement tools
- t. Alpha / Beta testing – Load / Server / GUI test tools

### **C. Equivalence Partitioning**

Three basic types of equivalence classes apply when testing for range and domain errors: in-bound, out-of-bound, and on-bound situations. It is good practice to develop test procedures to examine boundary cases. One advantage with equivalence partitioning is that it reduces the scope of exhaustive testing to a well-defined set of test procedures, as opposed to an ad-hoc definition of test procedures. One disadvantage relates to the fact that the resulting test procedures do not include other types of tests that have a high probability of finding an error. Cause-effect

graphing: It is a technique that provides a concise representation of logical conditions and corresponding actions. Four steps are involved in this technique:

- a. Listing of causes and effects
- b. A cause-effect graph is developed
- c. A graph is converted into decision table
- d. Identification of causes and effects by reading functional specification.

#### **D. Boundary Value Analysis:**

Boundary value analysis can be applied to both functional and structural testing levels. Boundaries define three classes of data: good, bad, and on the border. Boundary testing uses values that lie in or on the boundary (such as end points), and maximum / minimum values (such as field lengths). **Functionality Testing:** The primary objective of this test is to assess whether the application does what it is supposed to do in accordance with specified requirements.

A functional test exercises a system application with regard to functional requirements with the intent of discovering nonconformance with end user requirements.

**E. Regression Testing:**

The whole notion of conducting tests is aimed at finding and documenting defects and tracking them to closure. The test engineer needs to be sure that the action performed to fix the software does not, in turn, create a new error in another area of the software system. Regression system determines whether any errors have been introduced during the error-fixing process. When using automated test tools, the test scripts recorded previously can be run again to see whether it produces other errors.

**F. Security Testing:**

Security tests involve checks to verify the proper performance of system access and data access mechanisms.

**G. Stress Testing:**

These tests are performed when processing of transactions reaches its peak and steady loads of high-volume data are encountered. Stress testing measures the capacity and resiliency of the system on each hardware platform. In this technique,

multiple users exercise specific functions concurrently and some use values outside of the norm.

Several types of stress testing exist:

- a. Unit stress tests generate stress on single interface.
- b. Module stress testing verifies that business functions are processed in a common area.
- c. System stress testing involves loading the system using high-volume transactions.

#### **H. Performance Testing:**

Performance tests verify that the system application meets specific performance efficiency objectives. Performance testing can measure and report on such data as Input / Output rates, total number of Input / Output actions, average database query response time, and CPU utilization rates.

#### **I. Usability Testing:**

Usability tests verify that the system is easy to use and that the user interface appearance is appealing. Test engineer needs to evaluate the application from the prospective of the end user.

#### **J. Random Testing:**

Random tests consist of spontaneous tests identified by the test engineer during test development or execution. These types of tests are also referred to as Monkey tests.



**K. Integrity Testing:**

It verifies that data are being stored by the system in a manner where the data is not comprised by updating, restoration, or retrieve processing. Validation to be performed can include checking data fields for alphabetic and numeric characters, for information that is too long, and for correct date format.

**L. Conversion Test**

Conversion testing measures and reports the capability of the software to convert existing application data to new formats. Conversion accuracy is measured by comparing the test data dump with the new database.

**M. Backup and Recoverability Testing:**

It verifies that the system meets specified backup and recoverability requirements. These tests help to prove that the database and software can recover from partial or full catastrophic failures of system hardware or software.

**N. Configuration testing:**

Configuration testing verifies that an application operates properly on machines with different hardware and software

configurations. Such tests check for compatibility issues. Operational Readiness Testing: This test technique helps determine whether a system is ready for normal production operations. All valid and invalid values are defined and applied during these tests. Alpha / Beta Testing: Most software vendors use alpha and beta testing to uncover errors through testing by the end user. Customers at the developer's site, with the developer present, usually conduct alpha testing. Beta testing is usually conducted at one or more customer sites with the developers not present. Common QA Testing Terms and Definitions: ATLM: Automated Test Life-Cycle Methodology

CMM: Capability Maturity Model

TMM: Test Maturity Model

AUT: Application under test

UAT: User Acceptance test

### **O. Smoke Testing**

The smoke test (build verification test) focuses on test automation of the system components that makeup the most important functionality. Whenever a new software build is received, the test engineer plays back the smoke test, verifying the major functionality of the system still exists.

Benefits of automated testing:

1. Production of a reliable system.

2. Improvement of the quality of the test effort

3. Reduction of the test effort and minimization of the schedule

**Test Script:** A test script contains the detailed sequence of manual and automated actions, as well as the setup information to execute a test case.

A test script contains sections for:

- Test setup
- Actions or Procedures to complete
- Expected results
- Actual results

**Test conditions coverage matrix:** This matrix is work sheet that is used for planning, and for illustrating that all test conditions are covered by one or more test cases. **Test Requirements coverage matrix:** This matrix is work sheet that is used to illustrate that all requirements are covered by one or more test cases.

**Test Cases Specification**

The different conditions that need to be tested, along with the test cases used for testing those conditions and expected output are given. The goal is to test different correctly. A test case should contain particulars such as test case identifier, test case functional requirements, as specified in requirement document. Test cases have been selected for both valid and invalid inputs.

A test case is a document that describes an input, action, or event and an expected response, to determine if a feature of an application is working name, objective, test conditions/setup, input data requirements, steps, and expected results.

<b>Test Case Name:</b>	<b>Test Case Id:</b> TC_WBLT_01
<b>Description:</b> Allows Administrator to create different roles	<b>User Roles:</b> All Users
<b>Navigation:</b> WBLT>Login	<b>Coverage:</b> All Users
<b>Inter-case Dependencies:</b> No Dependencies	
<b>Test Case Type:</b> Functionality Test	<b>Date:</b> 21/1/2013

Step No	Objective	Steps to be Performed	Result	Pass /Fail
1	To validate the functionality of the 'WBLT' login process	<ol style="list-style-type: none"> <li>1. Enter admin 'Username'</li> <li>2. Enter admin 'Password'</li> <li>3. Click on 'log in' button</li> </ol>	Admin log in page should be displayed.	Pass
2	To validate the functionality of the 'WBLT' login process	<ol style="list-style-type: none"> <li>1. Enter valid 'Username'</li> <li>2. Keep Password field Blank</li> <li>3. Click on 'log in' button</li> </ol>	User should not get logged in on admin page.	Pass
3	To validate the functionality of the 'WBLT' login process	<ol style="list-style-type: none"> <li>1. Keep Username field Blank</li> <li>2. Enter valid 'Password'</li> <li>3. Click on 'log in' button</li> </ol>	User should not get logged in on admin page.	Pass
		<ol style="list-style-type: none"> <li>1. Leave all fields as blank 2. and click Log-in button</li> </ol>	By leaving all fields as blank and on click Log-in button then mandatory symbol ( * ) should	Pass

			appear in front of Username and Password fields	
		Enter Invalid Username	By entering invalid Username then an error message should appear as " Please Enter Valid Username "	Pass
		Enter Invalid Password	The password field should display the encrypted format of the text typed as (****)	Pass
4	To validate the functionality of the 'Password' process		The password field should display the encrypted format of the text typed as (****)	Pass
5	Check hyperlink on Forgot Password label		while mouse over of the label an hand icon should	Fail

			display	
6	To validate the functionality of the 'Forgot Password' process		User can recover the password using the "Forgot Password" link page	Fail
7	To Validate Registration of Group in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a group menu from Registration menu.	User should get 'Add a group' page and the cursor should be in Group name field.	Pass
8	To Validate Registration of Institute in WBLT by Administrator role.	3. Click on Insert Institute	Insert Institute page should be opened and the cursor should be in Institute field.	Pass
		4. Enter Institute, Description, Address and Email-id	No error should be displayed	Pass
9	To Validate mobile number field in Registration form by BVA	5. Enter 9 Digit mobile no. in the Mobile No. field and Click Save	Record Should not get saved and proper error message should be	Pass



			displayed	
		7. Enter 10 Digit mobile no. in the Mobile No. field and Click Save	User should be redirected back to Group page and a grid should be added at bottom indicating institute information under group with an update field.	Pass
		8. Click on Add institute	Group name and description should remain same and 'Add Institute' page should open, Fill the details.	Pass
		9. Click on 'Save'	User should be redirected back to Group page and a grid should be added at bottom indicating institute information under group with an update field.	Pass
		10. Click on 'Save' under group	Group name and Description field	

		<p>window</p>	<p>should get cleared and a grid is to be displayed at bottom reflecting recently added course.</p>	<p>Pass</p>
		<ol style="list-style-type: none"> <li>1. Log in to WBLT using 'Administrator' User name and password</li> <li>2. Click on add a group</li> <li>3. Add Group name</li> <li>4. Add Group Description.</li> <li>5. Keep Add institute Untouched</li> <li>6. Click on 'Save'</li> </ol>	<p>Form Should not get saved and User should be prompted by an alert that 'At least one institute should be present under one group'.</p>	<p>Pass</p>
10	<p>To Validate Registration of University in WBLT by Administrator role.</p>	<ol style="list-style-type: none"> <li>1. Log into WBLT using 'Administrator' User name and password</li> <li>2. Click on add a University menu from Registration</li> </ol>	<p>User should get 'Add a University' page and the cursor should be in University name field.</p>	<p>Pass</p>

		menu.		
		3. Add University Name and University Description 4. Click on 'Save'	University name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added University.	Pass
11	To Validate Registration of Course in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a Course menu from Registration menu.	User should get 'Add a Course' page and the cursor should be in Course name field.	Pass
		3. Add Course Name and Course Description 4. Click on 'Save'	Course name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Course.	Pass
12	To Validate Registration of Branch in WBLT by	1. Log into WBLT using 'Administrator' User	User should get 'Add a Branch' page and the	Pass

	Administrator role.	name and password 2. Click on add a Branch menu from Registration menu.	cursor should be in Branch name field.	
		3. Add Branch Name and Course Description 4. Click on 'Save'	Branch name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Branch.	Pass
13	To Validate Registration of Class in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a Class menu from Registration menu.	User should get 'Add a Class' page and the cursor should be in Class name field.	Pass
		3. Add Class Name and Class Description 4. Click on 'Save'	Class name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Class.	Pass

14	To Validate Registration of Semester in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a Semester menu from Registration menu.	User should get 'Add a Semester' page and the cursor should be in Semester name field.	Pass
		3. Add Semester Name and Semester Description 4. Click on 'Save'	Semester name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Semester.	Pass
15	To Validate Registration of Subject in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a Subject menu from Registration menu.	User should get 'Add a Subject' page and the cursor should be in Subject name field.	Pass
		3. Add Subject Name and Subject Description 4. Click on 'Save'	Subject name and Description field should get cleared and a grid is to be	Pass

			displayed at bottom reflecting recently added Subject.	
16	To Validate Registration of Syllabus Pattern in WBLT by Administrator role.	1. Log into WBLT using 'Administrator' User name and password 2. Click on add a Syllabus Pattern menu from Registration menu.	User should get 'Syllabus Pattern' page and the cursor should be in University field.	Pass
		3. Click on University Dropdown list	A List of Predefined Universities should be available in the drop-down list.	Pass
		4. Select an University 5. Add Syllabus Name and Description 6. Choose 'Date From' and 'Date To'	A Date Picker should be available in the field 'Date From' and 'Date To'	Pass
		7. Click on 'Save'	All the fields should get cleared & grid to be	Pass



			displayed at bottom reflecting recently added	
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<b>Test Case Name:</b>	<b>Test Case Id:</b>
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TC_WBLT_02					
Step	Objective	Steps to be	Result	Pass	
	<b>Description: Allows Administrator to build different Relationships</b>	<b>Performed</b>			Fail
	Validate Relationship from University level to Class level	1. Log into WBLT using 'Administrator' User name and password	User Roles: All Users University to Class relationship page		
	<b>Navigation: WBLT&gt;Login&gt;Build Relationship</b>		<b>Coverage: All Users</b> should open and		
	<b>Inter-case Dependencies: No Dependencies</b>	2. Click on Build a relationship menu	the Cursor should be on 'Select University' Field		Pass
		from Registration menu. 3. Click on University to Class			
		4. Click on the 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list		Pass
		5. Select an University 6. Enter no. of Courses	No. Of Courses dropdown should appear upon entering the no. of Courses		Pass
		7. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list		Pass



		<p>8. Select a Course.</p> <p>9. Select no. of Courses from Multiple Choice Options</p> <p>10. Select Classes applicable from multiple choice options</p> <p>11. Click Save</p>	<p>All the fields should get cleared and a grid is to be displayed at bottom reflecting recently added Relationship with an update field.</p>	<p>Pass</p>
		<p>12. Click on Update</p>	<p>The fields should take the values of the entered data in an editable format.</p>	<p>Pass</p>
		<p>13. Make Changes to data</p> <p>14. Click on Save</p>	<p>All the fields should get cleared and a grid is to be displayed at bottom reflecting recently updated Relationship.</p>	<p>Pass</p>
2	To Validate Relationship from Syllabus to Subject	<p>1. Log into WBLT using 'Administrator' User name and password</p> <p>2. Click on Build a relationship menu</p>	<p>Syllabus to Subject relationship page should open and the Cursor should be on 'Select University' Field</p>	<p>Pass</p>

		from Registration menu. 3. Click on Syllabus to Subject		
		4. Click on the 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		5. Select an University 6. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		7. Select a Course 8. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		9. Select a Branch 10. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		11. Select a Class 12. Enter no. of Syllabus	No. Of Syllabus dropdown should appear upon entering the no. of Courses	Pass

		13. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		14. Select Syllabus from Dropdown. 15. Enter no. of Subjects 16. Select list of Subjects from Multiple Choice Options 17. Enter Subject Code 18. Click on Save	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently added Relationship with an update field.	Pass
		19. Click on Update	The fields should take the values of the entered data in an editable format.	Pass
		20. Make Changes to data 21. Click on Save	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently updated Relationship.	Pass

3	To Validate Chapter Insertion for Each Subject	1. Log into WBLT using 'Administrator' User name and password 2. Click on Insert Chapter menu from Registration menu.	Insert Chapter page should open and the Cursor should be on 'Select University' Field	Pass
		3. Click on the 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		4. Select an university 5. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		6. Select a Course 7. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		8. Select a Branch 9. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		10. Select a Class 11. Click on the Syllabus Dropdown	A Predefined list of Syllabus should appear in the	Pass

		list	dropdown list	
		12. Select a Syllabus 13. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		14. Select a Subject 15. Enter no. of Chapters	No. Of Editable Rows should appear which would be equal to entered no. of Chapters	Pass
		16. Enter data in all the fields and Click on Save	All the fields should remain same and a grid is to be displayed at bottom reflecting recently added Relationship.	Pass
4	To Validate Topic Insertion for Each Chapter	1. Log into WBLT using 'Administrator' User name and password 2. Click on Insert Topic menu from Registration menu.	Insert Topic page should open and the Cursor should be on 'Select University' Field	Pass

		3. Click on the 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		4. Select a University 5. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		6. Select a Course 7. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		8. Select a Branch 9. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		10. Select a Class 11. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		12. Select a Syllabus 13. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass

		14. Select a Subject 15. Enter no. of Chapters	No. Of Editable Rows should appear which would be equal to entered no. of Chapters	Pass
		16. Enter data in all the fields and Click on Save	All the fields should remain same and a grid is to be displayed at bottom reflecting recently added Relationship.	Pass
5	To Validate Topic Insertion for Each Chapter	1. Log into WBLT using 'Administrator' User name and password 2. Click on Insert Topic menu from Registration menu.	Insert Topic page should open and the Cursor should be on 'Select University' Field	Pass
		3. Click on the 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		4. Select an University 5. Click on the Course	A Predefined list of Courses should appear in the	Pass

		Dropdown list	dropdown list	
		6. Select a Course 7. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		8. Select a Branch 9. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		10. Select a Class 11. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		12. Select a Syllabus 13. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		14. Select a Subject 15. Click on the Chapters Dropdown	A Predefined list of Chapters should appear in the	Pass



		list	dropdown list	
		16. Select a Chapter 17. Enter no. of Topics	No. Of Editable Rows should appear which would be equal to entered no. of Topics	Pass
		18. Enter data in all the fields and Click on Save	All the fields should remain same and a grid is to be displayed at bottom reflecting recently added Relationship.	Pass

<b>Test Case Name:</b>	<b>Test Case Id:</b> TC_WBLT_03
<b>Description:</b> Allows Administrator to Configure Institute	<b>User Roles:</b> All Users
<b>Navigation:</b> WBLT>Login>Institute Configuration	<b>Coverage:</b> All Users
<b>Inter-case Dependencies:</b> No Dependencies	
<b>Test Case Type:</b> Functionality Test	<b>Date:</b> 21/1/2013

Table 3.7.3.2 Test Case to Allows Administrator to build different Relationships

Step No	Objective	Steps to be Performed	Result	Pass /Fail
1	To Validate Institute Division Configuration	1. Log into WBLT using 'Administrator' User name and password 2. Click on Institute Configuration menu from Registration menu. 3. Click on Division	User should get 'Division' page and the cursor should be in Division name field.	Pass
		4. Add Division Name and Division Description 5. Click on 'Save'	Division name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Division.	Pass
2	To Validate Institute Shift Configuration	1. Log into WBLT using 'Administrator' User name and password 2. Click on Institute Configuration menu from Registration menu.	User should get 'Shift' page and the cursor should be in Shift name field.	

		3. Click on Shift		Pass
		4. Add Shift Name and Shift Description 4. Click on 'Save'	Shift name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Shift.	Pass
3	To Validate Institute Academic Year Configuration	1. Log into WBLT using 'Administrator' User name and password  2. Click on Institute Configuration menu from Registration menu.  3. Click on Academic Year	User should get 'Academic Year' page and the cursor should be in Academic Year name field.	Pass
		4. Add Academic Year 5. Select Start Date from Date Picker 6. Select End date from Date Picker 7 Click on 'Save'	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently added Academic Year.	Pass

4	To Validate Content Configuration Screen	1. Log into WBLT using 'Administrator' User name and password 2. Click on Institute Configuration menu from Registration menu. 3. Click on Content Configuration	Content Configuration page should open and the Cursor should be on 'Group' Field	Pass
		4. Click on the Group Dropdown list	A Predefined list of Groups should appear in the dropdown list	Pass
		5. Select a Group 6. Click on the Institute Dropdown list	A Predefined list of Institutes should appear in the dropdown list	Pass
		7. Select an Institute 8. Click on 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		9. Select a University 10. Enter no. of Courses	No. Of Courses dropdown should appear upon entering the no. of courses	

				Pass
		11. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		12. Select a Course 13. Enter no. of Branches	No. Of Branches dropdown should appear upon entering the no. of Branches	Pass
		14. Click on Branch Dropdown	A Predefined list of Branches should appear in the dropdown list	Pass
		15. Select a Branch 16. Enter no. of Classes under a Branch	No. Of Classes dropdown should appear upon entering the no. of Classes	Pass
		17. Click on Class Dropdown	A Predefined list of Classes should appear in the dropdown list	Pass

		18. Select a Class 19. Select no. of syllabus Pattern from Multiple Choice options	No. Of Classes dropdown should appear upon entering the no. of Classes	Pass
5	To Validate Class and Subject Configuration Screen	1. Log into WBLT using 'Administrator' User name and password 2. Click on Institute Configuration menu from Registration menu. 3. Click on Class and Subject Configuration	Class and Subject Configuration page should open and the Cursor should be on 'Group' Field	Pass
		4. Click on the Group Dropdown list	A Predefined list of Groups should appear in the dropdown list	Pass
		5. Select a Group 6. Click on the Institute Dropdown list	A Predefined list of Institutes should appear in the dropdown list	Pass
		7. Select an Institute 8. Click on 'Select University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass

		9. Select a University 10. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		11. Select a Course 12. Click on Branch Dropdown list	A Predefined list of Branches should appear in the dropdown list	Pass
		13. Select a Branch 14. Click on Class Dropdown list	A Predefined list of Classes should appear in the dropdown list	Pass
		15. Select a Class 16. Click on Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		17. Select a Syllabus 18. Enter no. of Classes under a Branch	No. Of Divisions dropdown should appear upon entering the no. of Classes	Pass

		19. Click on Division Dropdown list	A Predefined list of Divisions should appear in the dropdown list	Pass
		20. Select a Division 21. Click on Shift Dropdown list	A Predefined list of Shift should appear in the dropdown list	Pass
		22. Select a Shift 23. Click on Sem1 field 23. Select list of Subjects from Multiple Choice Options 24. Click on Sem2 field 25. Select list of Subjects from Multiple Choice Options 26. Click on Save	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently added course.	Pass
6	To Validate Student Registration Screen	1. Log into WBLT using 'Administrator' User name and password 2. Click on Institute Configuration menu from Registration menu. 3. Click on Student Registration	Student Registration page should open and the Cursor should be on 'Academic Year' Field.	Pass



		4. Click on Academic Year Dropdown list	A Predefined list of Academic Year should appear in the dropdown list	Pass
		5. Select a Academic Year 6. Click on Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		7. Click On Import File	A browse file window should pop up asking for the file to upload	Pass
		8. Select an Spreadsheet file and Click OK	A Message "Imported Successfully should be displayed" and all the data should get filled in the table of the page.	Pass
		9. Click Save	All the fields should get cleared and a message is to be displayed.	Pass

7	To Validate Student Registration Screen	<p>1. Log into WBLT using 'Administrator' User name and password</p> <p>2. Click on Institute Configuration menu from Registration menu.</p> <p>3. Click on Student Registration</p>	<p>Student Registration page should open and the Cursor should be on 'Academic Year' Field.</p>	Pass
		<p>4. Click on Academic Year Dropdown list</p>	<p>A Predefined list of Academic Year should appear in the dropdown list</p>	Pass
		<p>5. Select an Academic Year</p> <p>6. Click on Syllabus Dropdown list</p>	<p>A Predefined list of Syllabus should appear in the dropdown list</p>	Pass
		<p>7. Click On Import File</p>	<p>A browse file window should pop up asking for the file to upload</p>	Pass
		<p>8. Select any file except Spreadsheet file and Click OK</p>	<p>The File Should not get uploaded and proper error message should be displayed</p>	Pass

8	To Validate Staff Registration Screen	<p>1. Log into WBLT using 'Administrator' User name and password</p> <p>2. Click on Institute Configuration menu from Registration menu.</p> <p>3. Click on Staff Registration</p>	Staff Registration page should open	Pass
		4. Click On Import File	A browse file window should pop up asking for the file to upload	Pass
		5. Select an Spreadsheet file and Click OK	An Message "Imported Successfully should be displayed" and all the data should get filled in the table of the page.	Pass
		6. Click Save	All the fields should get cleared and a message is to be displayed.	Pass

9	To Validate Staff Registration Screen	<p>1. Log into WBLT using 'Administrator' User name and password</p> <p>2. Click on Institute Configuration menu from Registration menu.</p> <p>3. Click on Staff Registration</p>	Staff Registration page should open.	Pass
		4. Click On Import File	A browse file window should pop up asking for the file to upload	Pass
		5. Select any file except Spreadsheet file and Click OK	The File Should not get uploaded and proper error message should be displayed	Pass
		<p>15. Select a Branch</p> <p>16. Enter no. of Classes under a Branch</p>	No. Of Classes dropdown should appear upon entering the no. of	Pass

			Classes	
		17. Click on Class Dropdown	A Predefined list of Classes should appear in the dropdown list	Pass
		18. Select a Class 19. Select no. of Syllabus Pattern from Multiple Choice Options	No. Of Classes dropdown should appear upon entering the no. of Classes	Pass

<b>Test Case Name:</b>		<b>Test Case Id:</b> TC_WBLT_04	
<b>Description: Allows Administrator to Import Content</b>		<b>User Roles: All Users</b>	
<b>Navigation: WBLT&gt;Login&gt;Content Management</b>		<b>Coverage: All Users</b>	
<b>Inter-case Dependencies: No Dependencies</b>			
<b>Test Case Type: Functionality Test</b>		<b>Date: 21/1/2013</b>	

Step No	Objective	Steps to be Performed	Result	Pass /Fail
1	To Validate Content Management System	1. Log into WBLT using 'Administrator' User name and password  2. Click on Content Management menu from Registration menu.  3. Click on Content Import	Content Import page should open and the Cursor should be on 'University' Field.	Pass
		4. Click on the 'University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		5. Select an University  6. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		7. Select a Course  8. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		9. Select a Branch  10. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass

		11. Select a Class 12. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		13. Select a Syllabus 14. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		15. Select a Subject 16. Click on the Chapter Dropdown list	A Predefined list of Chapters should appear in the dropdown list	Pass
		17. Select a Chapter 18. Click on the Topic Dropdown list	A Predefined list of Topics should appear in the dropdown list	Pass
		19. Select a Topic 20. Click on Import New	An 'Add New Topic Content' Page Should be Opened.	Pass
		21. Click on Import field in front of Add Video Screen	A browse file window should pop up asking for the file to upload	Pass

		22. Select an Video file and Click OK	An Message "Imported Successfully should be displayed" and video file name must be inserted at Video List grid.	Pass
		23. Click on Import field in front of Add PPT Screen	A browse file window should pop up asking for the file to upload	Pass
		24. Select an PPT file and Click OK	An Message "Imported Successfully should be displayed" and PPT file name must be inserted at PPT List grid.	Pass
		25. Click on Import field in front of Add Word Screen	A browse file window should pop up asking for the file to upload	Pass
		26. Select an Word file and Click OK	A Message "Imported Successfully should be displayed" and Word file name	Pass



			must be inserted at Word List grid.	
		27. Click on Import field in front of Add Animation Screen	A browse file window should pop up asking for the file to upload	Pass
		28. Select an Animation file and Click OK	A Message "Imported Successfully should be displayed" and Animation file name must be inserted at Animation List grid.	Pass
		29. Add Multiple files if present 30. Click on Save	User should be redirected back to 'Add a Content' page and a grid should be added at bottom indicating recently inserted Name of Contents with an update field. The Dropdown list should remain filled.	Pass

		31. Click on 'Import Existing'	An 'Add Existing Topic Content' Page Should be Opened.	Pass
		32. Click on the 'University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		33. Select an University 34. Click on the Course Dropdown list	A Predefined list of Courses should appear in the dropdown list	Pass
		35. Select a Course 36. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		37. Select a Branch 38. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		39. Select a Class 40. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	

				Pass
		41. Select a Syllabus 42. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		43. Select a Subject 44. Click on the Chapter Dropdown list	A Predefined list of Chapters should appear in the dropdown list	Pass
		45. Select a Chapter 46. Click on the Topic Dropdown list	A Predefined list of Topics should appear in the dropdown list	Pass
		47. Select a Topic	A Table is to be displayed with the available data in each field with an checkbox for each file	Pass
		48. Select a Checkboxes in front of Video, Word, PPT and animation files 49. Click on Save.	User should be redirected back to 'Add Content' page and a grid should be added at bottom indicating recently inserted Name of	

			Contents with an update field. The Dropdown list should remain filled.	Pass
		50. Click on Save	A Message "Imported Successfully should be displayed" and Dropdown Data should get cleared.	Pass

<b>Test Case Name:</b>		<b>Test Case Id:</b>	
		<b>TC_WBLT_05</b>	
<b>Description: Allows Administrator to create Faculty</b>			
<b>Delivery Screen</b>		<b>User Roles: All Users</b>	
<b>Navigation: WBLT&gt;Login&gt;Content Management</b>		<b>Coverage: All Users</b>	

<b>Inter-case Dependencies: No Dependencies</b>	
<b>Test Case Type: Functionality Test</b>	<b>Date: 21/1/2013</b>

Step No	Objective	Steps to be Performed	Result	Pass /Fail
1	To Validate Faculty Delivery Screen in WBLT	1. Log into WBLT using 'Faculty' User name and password	A default faculty login Screen should be displayed.	Pass
		2. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		3. Select a Subject 4. Click on the Chapter Dropdown list	A Predefined list of Chapters should appear in the dropdown list	Pass
		5. Select a Chapter 6. Click on the Topic Dropdown list	A Predefined list of Topics should appear in the dropdown list	Pass
		7. Select a Topic	A default PPT and Word file should be displayed in the below fields	Pass

		8. In the PPT, Click Next	Next Slide of PPT should appear	Pass
		9. In the PPT, Click Previous	Previous Slide of PPT should appear	Pass
		10. Click PPT2 if present	Next PPT file should appear.	Pass
		11. Click Word2 if present	Next Word file should appear.	Pass
		12. Click on Video tab	Default Video if present should appear.	Pass
		13. Click on Video2 if present	Next Video if present should appear.	Pass
		14. Click on Animation tab	Default Animation if present should appear.	Pass
		15. Click on Animation2 if present	Next Animation if present should appear.	Pass
2	To Validate Search option in Faculty Login Page	1. Log into WBLT using 'Faculty' User name and password	A default faculty login Screen should be displayed.	Pass

		2. In the search field, enter any keyword	Links of all the data if present should appear.	Pass
		3. Click onto any one of the link.	A default PPT and Word file should be displayed in the below fields	Pass
3	To Validate Student Delivery Screen in WBLT	1. Log into WBLT using 'Student' User name and password	A default Student login Screen should be displayed.	Pass
		2. Click on the Year Dropdown list	A Predefined list of Years should appear in the dropdown list	Pass
		3. Select a Year 4. Click on the Semester Dropdown list	A Predefined list of Semesters should appear in the dropdown list	Pass
		5. Select a Semester 6. Click on the Subject Dropdown list	A Predefined list of Subjects should appear in the dropdown list	Pass
		7. Select a Subject 8. Click on the Chapter Dropdown	A Predefined list of Chapters should appear in the	Pass

		list	dropdown list	
		9. Select a Chapter 10. Click on the Topic Dropdown list	A Predefined list of Topics should appear in the dropdown list	Pass
		11. Select a Topic	A default Word file should be displayed in the below fields	Pass
		12. Click Word2 if present	Next Word file should appear.	Pass
		13. Click on Video tab	Default Video if present should appear.	Pass
		14. Click on Video2 if present	Next Video if present should appear.	Pass
		15. Click on Animation tab	Default Animation if present should appear.	Pass
		16. Click on Animation2 if present	Next Animation if present should appear.	Pass



4	To Validate Search option in Student Login Page	1. Log into WBLT using 'Student' User name and password	A default Student login Screen should be displayed.	Pass
		2. In the search field, enter any keyword	Links of all the data if present should appear.	Pass
		3. Click onto any one of the link.	A default Word file should be displayed in the below fields	Pass

<b>Test Case Name:</b>		<b>Test Case Id:</b> TC_WBLT_06	
<b>Description:</b> Allows Supervisor to create different roles and allocate tasks		<b>User Roles:</b> All Users	
<b>Navigation:</b> WBLT>Login>Planning Module		<b>Coverage:</b> All Users	
<b>Inter-case Dependencies:</b> No Dependencies			
<b>Test Case Type:</b> Functionality Test		<b>Date:</b> 21/1/2013	

Ste	Objective	Steps to be	Result	Pass/
-----	-----------	-------------	--------	-------

p No		Performed		Fail
1	To Validate Adding Role Screen	1. Log into WBLT using 'Administrator' OR 'Institute Admin' User name and password    2. Click on Planning Module menu from Registration menu. 3. Click on Add a Role	User should get 'Add a Role' page and the cursor should be in Role name field.	Pass
2		4. Add Role Name and Role Description 5. Click on 'Save'	Role name and Description field should get cleared and a grid is to be displayed at bottom reflecting recently added Role.	Pass
3	To Validate Relationship between Staff and Roles	1. Log into WBLT using 'Administrator' OR 'Institute Admin' User name and	User should get 'Relationship between Staff and Role' page and the cursor	Pass

		password 2. Click on Planning Module menu from Registration menu. 3. Click on Relationship between Staff and Role	should be in the Faculty Dropdown list.	Pass
		4. Click on Faculty Dropdown list	A Predefined list of Faculties should appear in the dropdown list	Pass
		5. Select no. of Roles from Multiple Choice Options 6. Click on Save	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently added Faculty.	Pass
4	To Validate Binding of Subjects to Faculty	1. Log into WBLT using 'Administrator' OR 'Institute Admin' User name and	Binding Subjects to Faculty page should open and the Cursor	Pass

		password 2. Click on Planning Module menu from Registration menu. 3. Click on Binding Subjects to Faculty	should be on 'Group' Field.	
		4. Click on the Group Dropdown list	A Predefined list of Groups should appear in the dropdown list	Pass
		5. Select a Group 6. Click on the Institute Dropdown list	A Predefined list of Institutes should appear in the dropdown list	Pass
		7. Select an Institute 8. Click on the 'University' dropdown list	A Predefined list of Universities should appear in the dropdown list	Pass
		9. Select an University 10. Click on the Course Dropdown list	A Predefined list of Courses should appear in the	Pass

			dropdown list	
		11. Select a Course 12. Click on the Branch Dropdown list	A Predefined list of Branch should appear in the dropdown list	Pass
		13. Select a Branch 14. Click on the Class Dropdown list	A Predefined list of Class should appear in the dropdown list	Pass
		15. Select a Class 16. Click on the Syllabus Dropdown list	A Predefined list of Syllabus should appear in the dropdown list	Pass
		17. Select a Syllabus 18. Click on the Division Dropdown list	A Predefined list of Divisions should appear in the dropdown list	Pass
		19. Select a Division 20. Click on the Semester Dropdown list	A Predefined list of Semesters should appear in the	Pass

			dropdown list	
		21. Select a Semester 22. Click on the Faculty Dropdown list	A Predefined list of Faculties should appear in the dropdown list	Pass
		23. Select list of Subjects from Multiple Choice Options 24. Click on Save	All the fields should get cleared and a grid is to be displayed at bottom reflecting recently assigned Subjects to a Faculty.	Pass

## **User Manual**

Web Based Learning and Teaching has 3 users as follows:-

1. Institute Admin
2. Faculty
3. Student

As per there username and password, WBLT will automatically understand which user is login. If he is Institute Admin then automatically Administrator menus will be displayed, if he is Student then respective menu will be displayed.

User Manual for Institute Admin:-

Institute Admin has authority to insert/update data and he also has authority to integrate/bind that data. He creates this repository which will used by Institute. He inserts all master data and creates relationship with that data.

Institute Admin contains Main Menus as follows:-

1. Masters
2. Institute Configuration
3. Content Management
4. Institute Masters
5. Faculty Subject Planning
6. Reports

## 1. Masters

This is the First Menu on the Screen. It is used to insert records in master tables. You can also view or update previous inserted record.

It has sub menus as follows:-

### a. Group :-

This Menu is used to insert Educational Group Information. You have to add group name and group description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

### b. Institute :-

This Menu is used to insert Institute Information. You have to first select the Group Name from Dropdown and then you can enter institute name, institute description, institute phone no, institute address and institute email. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.



c. University :-

This Menu is used to insert University Information. You have to add university name and university description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

d. Course :-

This Menu is used to insert Course Information. You have to add course name and course description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

e. Branch :-

This Menu is used to insert Branch Information. You have to add branch name and branch description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

f. Class :-

This Menu is used to insert Class Information. You have to add class name and class description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

g. Syllabus Pattern :-

This Menu is used to insert Syllabus Pattern. You have to first select the University Name from Dropdown and then you can enter Syllabus name, Syllabus description, from date, to date using calendar. When you enter all information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

h. Semester :-

This Menu is used to insert Semester Information. You have to add semester name and semester description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not

allow inserting that data and already present message will be popup. You can also update inserted data from that table.

i. Subject :-

This Menu is used to insert Subject Information. You have to add subject name and subject description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

j. Division :-

This Menu is used to insert Division Information. You have to add division name and division description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

k. Shift :-

This Menu is used to insert Shift Information. You have to add shift name and shift description. When you enter information and press add button it will display message for successful insertion and that record will be display below in the table. If entered information is already present then it will not allow inserting that data and already present message will be popup. You can also update inserted data from that table.

## 2. Institute Configuration

In this Menu we create binding with all masters table data. It binds from group to topic. We bind university, course, subject, class, syllabus, semester, division, shift, subject, chapter and topic to institute.

It also have sub menus they are as follows :-

### a. Institute Class Syllabus :-

In this menu we select group, institute and university from dropdown and enter number of courses for bind to institute. When we click add button it create number of rows to input.

We can select course, branch and classes from dropdown and then we attach syllabus to that class. It create binding from institute to syllabus.

### b. Institute Division Shift:-

In this screen we use previous binding to attach subjects to specific class and semester. We also attach shift and division to specific class of institute.

### c. Chapter :-

In this screen we add chapter to specific subject. First we select all required binding from dropdown and then enter number of chapter so we can add values in text box for chapter in subject.

d. Topic :-

In this screen we add topic to specific chapter. First we select all required binding from dropdown and then enter number of topic so we can add values in text box for topic in chapter.

### 3. Content Management :-

Content Management is for add contents to respective topic of chapter. This content can be PPT file, Word File or Video file. This content will help to Faculty for teaching and Students for learning.

Institute admin will do content management. After creating repository we can add this content to specific topic.

In this screen we traverse from university to topic and then select either import new or import existing.

- a. For import new we can browse for new files of ppt, video or word related to that topic. When we click import new the new pop window will open which have browse button then we can browse for ppt, video or word file for that topic. When we click on upload it will display file name in below table related to its format.

Then click save for import that selected file. We can upload multiple file also.

When we click save button then control goes to main content management screen then user can click show data or he can also click on save button for import.

- b. For import existing we can update or add new file from other topic. It shows file list which is already added for other topic so we can add those files to specific topic from other topic.

#### **4. Institute Masters : -**

This menu will allow adding role, students and faculty. For that it provides four menus viz.

- a. Role
- b. Single Student Registration
- c. Bulk Student Registration
- d. Single Faculty Registration
- e. Bulk Faculty Registration

##### **1. Role :-**

It allows adding role for User. This role can bind to user so it will have some responsibility. User having specific role and responsibilities will allow doing their respective operations as per their role.

##### **2. Single Student Registration:-**

This allows registering single student in system. For this Institute admin have to select institute, course, branch , class, division and shift then he can add student personal information as first name, last name , registration number, mob number, email , etc.

### 3. Bulk Student Registration :-

Registration of more than 1 student i.e. bulk student registration is done in this menu. For this institute admin will import excel sheet which contains all information of students such as first name, last name, registration number, mob no, email id, course, branch, class, institute name, division, etc. Format of excel sheet is fixed. This excel sheet can be placed anywhere in computer. Then admin will import this excel sheet.

### 4. Single Faculty Registration:-

This allows registering single faculty in system. For this Institute admin have to select institute, course, branch , class then he can add student personal information as first name, last name , employee id, mob number, email , etc.

### 5. Bulk Faculty Registration :-

Registration of more than 1 faculty i.e. bulk faculty registration is done in this menu. For this institute admin will import excel sheet which contains all information of faculty such as first name, middle name, last name, employee id, mob no, email id, course, branch, class, group, institute name, etc. Format of excel sheet is fixed. This excel sheet can be placed anywhere in computer. Then admin will import this excel sheet.



## **5. Faculty Subject Planning :-**

This menu will allow institute administrator to allocate one or more subjects to faculty. For this institute admin selects all dropdowns like group, institute, course, branch, class, semester, faculty name and subjects. It will add subjects of specific course, branch, class to faculty.

## **6. Reports:-**

A report gives detail information. WBLT generates two reports for institute admin.

### **a. Faculty wise Subject Report :-**

This report will give information about faculty and their respective subjects which are allocated to them.

### **b. Division wise Student Report :-**

This report gives information about student which is registered under 1 division.

## **User Manual for Faculty and Student for presentation screen**

Faculty and student can only access presentation screen after successful login into system. First user has to select semester, subject, chapter and then topic from the list. Then he will select the media such as ppt or video or word file for presentation.

### **Drawbacks and Limitations**

1. It only runs on intranet so student and faculty cannot access it from outside of institute campus.
2. It does not have facility to change of password and password recovery.
3. System does not have separate evaluation module so online tests for students cannot be conduct.

## **Proposed Enhancement**

1. WBLT is now only runs on intranet. It can be hosted to internet, so users can access it from anywhere.
2. Evaluation module can be added in system.

It includes:

- Online Test for students.
- Assignment for students.
- Progress reports of students.

3. System can have sub module in planning i.e. Class Planning. This module will allow faculty to plan timetable for entire semester and faculty will use this timetable to plan their lecture.

4. System can have the password change and password recovery facility.

It can also have:

- Discussion Forum
- News and Events

## **Conclusion**

The project has successfully completed as per the requirements of user. The ultimate objective of this project is to provide organized information to the users. Now, with this project, authorized user can have access to the information in the form of word file, ppt, animation or video.

Project is developed using MySQL as backend and spring as front-end tool. We have created entities in spring and fetched data using hibernate. Few of the functions and characteristics may be extended need further for the application perfection. This task is left for the future work. The application requires an additional of those features that most of the modern application may or may not have in their implementation.

## Bibliography

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- <http://web.securityinnovation.com/appsecweekly/blog/bid/77740/How-To-Perform-Input-Validation-in-SpringMVC>
- <http://www.nvenky.in/2009/10/spring-displaying-dynamic-list-and.html>
- [http://www.tutorialspoint.com/hibernate/hibernate\\_overview.htm](http://www.tutorialspoint.com/hibernate/hibernate_overview.htm)

### Books

1. Introduction to spring framework
2. Spring Tutorial

## USER INTERFACE SCREENS

### Group Registration :-

Group:

Group Name:

Group Description:

List of all Groups:

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Group:

Group Name:

Group Description:

List of all Groups:

One item found. 1

<u>Sl.No.</u>	<u>Group Name</u>	<u>Group Description</u>	<u>Action</u>
1	MES	Maharashtra Education Society	<a href="#">Update</a>

### Institute Registration :-

PROGLE Edutech Web Based Learning & Teaching

Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:25:59 IST 2013

Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Institute:

Select Group

Institute Name

Institute Address

Email Id

Institute Description

Phone Number

List of all Institutes:

One item found.1

Sr.No.	Institute Name	Institute Address	Institute Phone No.	Action
1	IMCC	131, Mayur Colony, Kothrud,Pune	02025466271	<a href="#">Update</a>

### Validation On Institute Screen :-

PROGLE Edutech Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 11:04:24 IST 2013

Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Institute:

Select Group  *\*Group Required*

Institute Name  *\*Name Required*

Institute Address  *\*Address Required*


Email Id  *\*Email Id Required*

Institute Description  *\*Description Required*

Phone Number  *\*Phone Number Required*

List of all Institutes:

## Multiple Record Validation :-



Web Based Learning & Teaching

Welcome:admin | [logout](#) | Date: Thu Apr 18 11:00:41 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

**Institute:**

Select Group:

Institute Name:

Institute Address:

Email Id:

Institute Description:

Phone Number:

Record Already Present

**List of all Institutes:**

One item found.1

Sr.No.	Institute Name	Institute Address	Institute Phone No.	Action
1	IMCC	131, Mayur Colony, Kothrud,Pune	02025466271	<a href="#">Update</a>



### University Registration :-



Web Based Learning & Teaching

Welcome: instituteadmin | [logout](#) | Date: Thu May 02 11:26:33 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

University

University Name

University Description


[Add](#) [Cancel](#)

List of all University:

One item found.1

Sr.No.	University Name	University Description	Action
1	Pune University	University of Pune	<a href="#">Update</a>

### Course Registration :-



Web Based Learning & Teaching

Welcome: instituteadmin | [logout](#) | Date: Thu May 02 11:27:05 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Course:

Course Name

Course Description


[Add](#) [Cancel](#)

List of all Courses:

One item found.1

Sr.No.	Course Name	Course Description	Action
1	MCA	Master in Computer Application	<a href="#">Update</a>

### Branch Registration :-



## Web Based Learning & Teaching

Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:27:38 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Branch:

Branch Name

Branch Description


[Add](#) [Cancel](#)

List of all Branches:

One item found.1

Sr.No.	Branch Name	Branch Description	Action
1	MCA MGMT	MCA Management	<a href="#">Update</a>

### Class Registration :-



## Web Based Learning & Teaching

Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:28:18 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Class

Class Name

Class Description


[Add](#) [Cancel](#)

List of all Classes:

3 items found, displaying all items.1

Sr.No.	Class Name	Class Description	Action
1	FY	First Year	<a href="#">Update</a>
2	SY	Second Year	<a href="#">Update</a>
3	TY	Third Year	<a href="#">Update</a>

## Syllabus Registration :-



Web Based Learning & Teaching

Welcome: instituteadmin | [logout](#) | Date: Thu May 02 11:29:24 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Syllabus Pattern:

Select University:

Syllabus Name:

From Date:

Syllabus Description:


To Date:

List of all Syllabus Pattern:

One item found. 1

Sr.No.	Syllabus Name	Syllabus Description	Action
1	2008	2008 Pattern	<a href="#">Update</a>

## Semester Registration :-



Web Based Learning & Teaching

Welcome: instituteadmin | [logout](#) | Date: Thu May 02 11:30:32 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Semester:

Semester Name:

Semester Description:

List of all Semesters:

6 items found, displaying all items. 1

Sr.No.	Semester Name	Semester Description	Action
1	Sem 1	Semester 1	<a href="#">Update</a>
2	Sem 2	Semester 2	<a href="#">Update</a>
3	Sem 3	Semester 3	<a href="#">Update</a>
4	Sem 4	Semester 4	<a href="#">Update</a>
5	Sem 5	Semester 5	<a href="#">Update</a>
6	Sem 6	Semester 6	<a href="#">Update</a>

### Subjects Registration :-


Web Based Learning & Teaching


Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:33:41 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Subject:

Subject Name:

Subject Description:

[Add](#) [Cancel](#)

List of all Subjects:

10 items found, displaying all items. 1

Sr.No.	Subject Name	Subject Description	Action
1	C	C Programming Language	<a href="#">Update</a>
2	CO	Computer Organisation	<a href="#">Update</a>
3	P & C	Probabilities & Combinatics	<a href="#">Update</a>
4	OS	Operatin System Concept	<a href="#">Update</a>
5	Data Structure	Data Structure using C	<a href="#">Update</a>
6	DBMS	Database Management System	<a href="#">Update</a>
7	PPMOB	Principle & Practice of MAnagement & Organisation Behaviour	<a href="#">Update</a>
8	DM	Discret Mathematics	<a href="#">Update</a>
9	Soft Skills	Soft Skills	<a href="#">Update</a>
10	SE	Software Engineering	<a href="#">Update</a>

### Division Registration:-


Web Based Learning & Teaching


Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:34:07 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Division:

Division Name:

Division Description:

[Add](#) [Cancel](#)

List of all Divisions:

One item found. 1

Sr.No.	Division Name	Division Description	Action
1	A	Division A	<a href="#">Update</a>

## Shift Registration : -



Web Based Learning & Teaching

Welcome:instituteadmin | [logout](#) | Date: Thu May 02 11:34:30 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Shift:

Shift Name

Shift Description

[Add](#) [Cancel](#)


List of all Shifts :

One item found.1

Sr.No.	Shift Name	Shift Description	Action
1	General	General Shift	<a href="#">Update</a>

## Institute Configuration:-

## Institute to Syllabus Binding



### Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 12:09:37 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Select the following:

Select Group:

Select Institute:

Select University:


No. of Courses:

Insert Details:

Sr. No	Course	No. of Branches	Branch	Class	Syllabus
1	<input type="text" value="MCA"/>	<input type="text" value="1"/>	<input type="text" value="MCA MGMT"/>	<input type="text" value="FY"/>	<input type="text" value="2008"/>

Institute Configuration :

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### Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 12:10:46 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Select the following:

Select Group:

Select Institute:

Select University:

No. of Courses:

Insert Details:

Sr. No	Course	No. of Branches	Branch	Class	Syllabus
<input type="button" value="Save"/> <input type="button" value="Cancel"/>					

Institute Configuration :

One item found.1

Sr.No.	Group Name	Institute Name	University Name	Course Name	Branch Name	Class Name	Syllabus Name
1	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008

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## Course To Subject Binding :-

Web Based Learning & Teaching

Welcome:admin | [logout](#) | Date: Thu Apr 18 12:19:40 IST 2013

[Masters](#) | [Institute Configuration](#) | [Content Management](#) | [Institute Masters](#) | [Faculty Subject Planning](#) | [Reports](#)

Configuration:

Select Group: <input type="text" value="MES"/>	Select Institute: <input type="text" value="IMCC"/>	Select University: <input type="text" value="Pune University"/>
Select Course: <input type="text" value="MCA"/>	Select Branch: <input type="text" value="MCA.MGMT"/>	Select Class: <input type="text" value="FY"/>
Select Syllabus: <input type="text" value="2008"/>	Enter No. of Division: <input type="text" value="1"/>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>

Sr. No	Division	Shift	Semester	Subjects
1	A	General	Sem 1	<input checked="" type="checkbox"/> DM <input type="checkbox"/> Data Structure <input checked="" type="checkbox"/> PPMOB <input checked="" type="checkbox"/> C <input type="checkbox"/> SE <input type="checkbox"/> Soft Skills <input type="checkbox"/> DBMS <input type="checkbox"/> P & C <input checked="" type="checkbox"/> CO <input checked="" type="checkbox"/> OS <input type="checkbox"/> DM <input checked="" type="checkbox"/> Data Structure <input type="checkbox"/> PPMOB <input type="checkbox"/> C <input checked="" type="checkbox"/> SE <input checked="" type="checkbox"/> Soft Skills <input checked="" type="checkbox"/> DBMS <input checked="" type="checkbox"/> P & C <input type="checkbox"/> CO <input type="checkbox"/> OS
			Sem 2	

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[Masters](#) | [Institute Configuration](#) | [Content Management](#) | [Institute Masters](#) | [Faculty Subject Planning](#) | [Reports](#)

Configuration:

Select Group: <input type="text" value="Select"/>	Select Institute: <input type="text" value="Select"/>	Select University: <input type="text" value="Select"/>
Select Course: <input type="text" value="Select"/>	Select Branch: <input type="text" value="Select"/>	Select Class: <input type="text" value="Select"/>
Select Syllabus: <input type="text" value="Select"/>	Enter No. of Division: <input type="text" value=""/>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>

Sr. No	Division	Shift	Semester	Subjects
				<input type="button" value="Save"/> <input type="button" value="Cancel"/>



Configuration:

10 items found, displaying all items. 1

Sr.No.	Group Name	Institute Name	University Name	Course Name	Branch Name	Class Name	Syllabus Name	Division Name	Shift Name	Semester Name	Subject Name
1	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 1	DM
2	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 1	PPMOB
3	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 1	C
4	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 1	CO
5	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 1	OS
6	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 2	Data Structure
7	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 2	SE
8	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 2	Soft Skills
9	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 2	DBMS
10	MES	IMCC	Pune University	MCA	MCA.MGMT	FY	2008	A	General	Sem 2	P & C

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## Chapter Registration :-


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Masters
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**Chapter:**



Select University	<input type="text" value="Pune University"/>	Select Course	<input type="text" value="MCA"/>
Select Branch	<input type="text" value="MCA MGMT"/>	Select Class	<input type="text" value="FY"/>
Select Syllabus	<input type="text" value="2008"/>	Select Subject	<input type="text" value="C"/>
Enter No. of Chapters	<input type="text" value="5"/>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

**Insert Chapter:**

Sr. No.	Chapter Number	Chapter Name	Chapter Description
1	1	Introduction of C	Introduction of C
2	2	Data Types In C	Data Types In C
3	3	Pointers	Pointers
4	4	Fuctions	Fuctions
5	5	File Handling in C	File Handling in C

List of all Chapters:

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Masters
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**Chapter:**

Select University	<input type="text" value="Select"/>	Select Course	<input type="text" value="Select"/>
Select Branch	<input type="text" value="Select"/>	Select Class	<input type="text" value="Select"/>
Select Syllabus	<input type="text" value="Select"/>	Select Subject	<input type="text" value="Select"/>
Enter No. of Chapters	<input type="text"/>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

**Insert Chapter:**

Sr. No.	Chapter Number	Chapter Name	Chapter Description


List of all Chapters:

5 items found, displaying all items.1

Sr.No.	University Name	Course Name	Branch Name	Class	Syllabus	Subject Name	Chapter No	Chapter Name	Chapter Description	Action
1	Pune University	MCA	MCA MGMT	FY	2008	C	1	Introduction of C	Introduction of C	<a href="#">Update</a>
2	Pune University	MCA	MCA MGMT	FY	2008	C	2	Data Types In C	Data Types In C	<a href="#">Update</a>
3	Pune University	MCA	MCA MGMT	FY	2008	C	3	Pointers	Pointers	<a href="#">Update</a>
4	Pune University	MCA	MCA MGMT	FY	2008	C	4	Fuctions	Fuctions	<a href="#">Update</a>
5	Pune University	MCA	MCA MGMT	FY	2008	C	5	File Handling in C	File Handling in C	<a href="#">Update</a>



## Topic Registration :-



Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 12:26:06 IST 2013

Masters
Institute Configuration
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Reports

Select the following:


Select University	<input type="text" value="Pune University"/>	Select Branch	<input type="text" value="MCA MGMT"/>
Select Course	<input type="text" value="MCA"/>	Select Syllabus	<input type="text" value="2008"/>
Select Class	<input type="text" value="FY"/>	Select Chapter	<input type="text" value="Introduction of C"/>
Select Subject	<input type="text" value="C"/>		
Enter Number of Topics	<input type="text" value="2"/> <input type="button" value="Add"/>		

Insert Topic details:

Sr. No.	Topic Number	Topic Name	Topic Description
1	1	Introduction	Introduction
2	2	History of C	Introduction

List of all Topics:

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Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 12:27:06 IST 2013

Masters
Institute Configuration
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Select the following:

Select University	<input type="text" value="Select"/>	Select Branch	<input type="text" value="Select"/>
Select Course	<input type="text" value="Select"/>	Select Syllabus	<input type="text" value="Select"/>
Select Class	<input type="text" value="Select"/>	Select Chapter	<input type="text" value="Select"/>
Select Subject	<input type="text" value="Select"/>		
Enter Number of Topics	<input type="text"/> <input type="button" value="Add"/>		

Insert Topic details:

Sr. No.	Topic Number	Topic Name	Topic Description

List of all Topics:

2 items found, displaying all items 1

Sr.No.	Branch	Class	Syllabus	Subject Name	Chapter Name	Topic No	Topic Name	Topic Description	Action
1	MCA MGMT	FY	2008	C	Introduction of C	1	Introduction	Introduction	<a href="#">Update</a>
2	MCA MGMT	FY	2008	C	Introduction of C	2	History of C	Introduction	<a href="#">Update</a>

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## Content Management:-

## Content Import New:-

Content Import

Select University: Pune University | Select Course: MCA | Select Branch: MCA MGMT | Select Class: FY | Select Syllabus: 2008 | Select Subject: C | Select Chapter: Introduction of C | Select Topic: History of C

Buttons: Import Existing, Import New

Modal Window: Progle Infotech - Mozilla Firefox

Content Import:

Sr. No.	WORD	PPT	VIDEO
1	History of C.doc X	1 History of C.ppt X	History of C Programming.MP4 X

Buttons: Save, Cancel

Content Import

Select University: Pune University | Select Course: MCA | Select Branch: MCA MGMT | Select Class: FY | Select Syllabus: 2008 | Select Subject: C | Select Chapter: Introduction of C | Select Topic: History of C

Buttons: Import Existing, Import New

Show Data

New Imported Content:

Sr. No.	WORD	PPT	VIDEO
1	History of C.doc X	1 History of C.ppt X	1 History of C Programming.MP4 X

Existing Selected Content:

File Name

Buttons: Save, Cancel

View Topic Content Data Details:

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## Content Saved in Database :-

Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Content Import:

Select University  Select Course

Select Branch  Select Class

Select Syllabus  Select Subject

Select Chapter  Select Topic

New Imported Content:

Existing Selected Content:

File Name


View Topic Content Data Details:

3 items found, displaying all items. 1

Sr.No.	Topic Name	Topic Data Name	Topic Data Type
1	History of C	History of C	doc
2	History of C	History of C	ppt
3	History of C	History of C Programming	MP4

## Institute Masters :-

## Single Student Registration :-



Web Based Learning & Teaching

Welcome: cadmin | [logout](#) | Date: Thu Apr 18 12:48:18 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

**Student Registration**

Select Group	MES	Select Institute	IMCC
Select University	Pune University	Select Course	MCA
Select Branch	MCA MGMT	Select Class	FY
Select Syllabus	2008	Select Division	A
Select Role	Student		


First Name	Anup	Middle Name	Narayan
Last Name	Sapkale	Mobile No.	9673988909
Email Id	apskale99@gmail.com	Registration No.	20072531018

[Save](#) [Cancel](#)

**Student List**

Sr No.	First Name	Middle Name	Last Name	Mobile No.	Email	Registration Number	User Name	Role	Branch	Class	Division	Update
1	Anup	Narayan	Sapkale	9673988909	apskale99@gmail.com	20072531018	Amp.Sapkale	Student	MCA MGMT	FY	A	<a href="#">Update</a>

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Web Based Learning & Teaching

Welcome: cadmin | [logout](#) | Date: Thu Apr 18 12:49:43 IST 2013

Masters
Institute Configuration
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Reports

**Student Registration**

Select Group	Select	Select Institute	Select
Select University	Select	Select Course	Select
Select Branch	Select	Select Class	Select
Select Syllabus	Select	Select Division	Select
Select Role	Select		

First Name		Middle Name	
Last Name		Mobile No.	
Email Id		Registration No.	

[Save](#) [Cancel](#)

**Student List**

Sr No.	First Name	Middle Name	Last Name	Mobile No.	Email	Registration Number	User Name	Role	Branch	Class	Division	Update
1	Anup	Narayan	Sapkale	9673988909	apskale99@gmail.com	20072531018	Amp.Sapkale	Student	MCA MGMT	FY	A	<a href="#">Update</a>

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### Bulk Student Registration :-

File Upload

Computer > Local Disk (D:) > Search Local Disk (D:)

Name	Date modified	Type
Project	3/6/2013 1:03 PM	File folder
ServletSessionExample	1/23/2013 1:28 PM	File folder
softwares	4/18/2013 10:11 AM	File folder
addContentConfig	2/7/2013 8:52 PM	JavaScript Source
Class Diagram	2/8/2013 10:26 AM	XML Document
ContentConfigFormIController	2/8/2013 11:14 AM	IntelliJ IDEA Proje
eclipse-jee-juno-SR1-win32	1/22/2013 5:00 PM	WinRAR ZIP archi
emp	4/1/2013 12:17 PM	Microsoft Office I
mytest	2/11/2013 2:35 PM	SWF File
Student	4/18/2013 12:53 PM	Microsoft Office I
timetable-1	3/6/2013 7:02 PM	Microsoft Office I
timetable-2	3/29/2013 5:38 PM	Microsoft Office I

File name: Student | All Files | Open | Cancel

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Welcome To Student registration

Browse... Upload

Sr.No.	First Name	Middle Name	Last Name	Mobile No	Email Id	Role	Registration Number	Group	Institute	University	Course	Branch	Class	Syllabus	Division
1	sneha	A	C	3456754322	ff@gmail.com	student	101	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008	A
2	pooja	G	G	9423915656	qq@gmail.com	student	102	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008	A
3	purva	V	S	987655788	kk@gmail.com	student	103	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008	A
4	nishi	V	J	4943646733	ss@gmail.com	student	104	MES	IMCC	Pune University	MCA	MCA MGMT	FY	2008	A

Save Cancel

Student Registration Details:

One item found.1

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Registration Number	User Name	Role	Branch	Class	Division	Action
1	Anup	Narayan	Sapkale	9673988909	anupsapkale99@gmail.com	20072531018	Anup Sapkale	Student	MCA MGMT	FY	A	Update

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## Web Based Learning & Teaching

Welcome: cadmin | [logout](#) | Date: Thu Apr 18 12:54:41 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Welcome To Student registration





Sr.No.	First Name	Middle Name	Last Name	Mobile No	Email Id	Role	Registration Number	Group	Institute	University	Course	Branch	Class	Syllabus	Division
--------	------------	-------------	-----------	-----------	----------	------	---------------------	-------	-----------	------------	--------	--------	-------	----------	----------

Student Registration Details:

5 items found, displaying all items 1

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Registration Number	User Name	Role	Branch	Class	Division	Action
1	Amup	Narayan	Sapkale	9673988909	amupsapkale99@gmail.com	20072531018	Amup.Sapkale	Student	MCA MGMT	FY	A	<a href="#">Update</a>
2	sneha	A	C	3456754322	ff@gmail.com	101	sneha.C	Student	MCA MGMT	FY	A	<a href="#">Update</a>
3	pooja	G	G	9423915656	qq@gmail.com	102	pooja.G	Student	MCA MGMT	FY	A	<a href="#">Update</a>
4	purva	V	S	9876555788	kk@gmail.com	103	purva.S	Student	MCA MGMT	FY	A	<a href="#">Update</a>
5	nishi	V	J	4943646733	ss@gmail.com	104	nishi.J	Student	MCA MGMT	FY	A	<a href="#">Update</a>

## Single Faculty Registration :-



### Web Based Learning & Teaching


Welcome:cadmin | [logout](#) | Date: Thu Apr 18 12:58:06 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Faculty

Select Role	<input type="text" value="Faculty"/>	Select Group	<input type="text" value="MES"/>	Select Institute	<input type="text" value="IMCC"/>
Select University	<input type="text" value="Pune University"/>	Select Course	<input type="text" value="MCA"/>	Select Branch	<input type="text" value="MCA MGMT"/>
First Name	<input type="text" value="Jayashree"/>	Middle Name	<input type="text" value="S"/>	Last Name	<input type="text" value="Patil"/>
Mobile Number	<input type="text" value="9876543210"/>	Email-Id	<input type="text" value="jspatil@mesimcc.com"/>	Qualification	<input type="text" value="BE(Comp)"/>
Employee Id	<input type="text" value="107"/>	Year of Experience	<input type="text" value="7"/>		

List of all Faculties:



### Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 13:03:25 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Faculty

Select Role	<input type="text" value="Select"/>	Select Group	<input type="text" value="Select"/>	Select Institute	<input type="text" value="Select"/>
Select University	<input type="text" value="Select"/>	Select Course	<input type="text" value="Select"/>	Select Branch	<input type="text" value="Select"/>
First Name	<input type="text"/>	Middle Name	<input type="text"/>	Last Name	<input type="text"/>
Mobile Number	<input type="text"/>	Email-Id	<input type="text"/>	Qualification	<input type="text"/>
Employee Id	<input type="text"/>	Year of Experience	<input type="text"/>		

List of all Faculties:

One item found.1

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Employee Id	Year Of Experience	Qualification	Course Name	Branch Name	Role	Action
1	Jayashree	S	Patil	9876543210	jspatil@mesimcc.com	107	7	BE(Comp)	MCA	MCA MGMT	Student	<a href="#">Update</a>

## Bulk Faculty Registration :-

The screenshot shows the PROFILE Edutech Web Based Learning & Teaching interface. A 'File Upload' dialog box is open, displaying the contents of 'Local Disk (D:)' with a folder named 'Faculty' selected. The background interface includes a navigation menu with options like 'Masters', 'Institute Configuration', 'Content Management', 'Institute Masters', 'Faculty Subject Planning', and 'Reports'. The main content area shows a 'Welcome To staff registration' section with 'Browse' and 'Upload' buttons, and a 'List of Faculty' table with one entry.

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Employee Id
1	Jayashree	S	Patil	9876543210	jspatil@mes	

The screenshot shows the PROFILE Edutech Web Based Learning & Teaching interface after a bulk registration. The 'Welcome To staff registration' section now includes a 'Save' button. The 'List of Faculty' table displays two entries with detailed information.

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Employee Id	Year Of Experience	Qualification	Group Name	Institute Name	University Name	Course Name	Branch Name	Role
1	Ravindra	P	Vaidya	9999222276	rpvaidya@mesimcc.com	103	19	MCA	MES	IMCC	Pune University	MCA	MCA MGMT	Faculty
2	Shilpa	S	Parikar	9867451235	ssparikar@mesimcc.com	105	16	MCA	MES	IMCC	Pune University	MCA	MCA MGMT	Faculty

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Employee Id	Year Of Experience	Qualification	Course Name	Branch Name	Role	Action
1	Jayashree	S	Patil	9876543210	jspatil@mesimcc.com	107	7	BE(Comp)	MCA	MCA MGMT	Student	<a href="#">Update</a>





## Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 13:11:52 IST 2013

Masters Institute Configuration Content Management Institute Masters Faculty Subject Planning Reports

Welcome To staff registration

Sr.No.	First Name	Middle Name	Last Name	Mobile No	Email Id	Employee Id	Year Of Experience	Qualification	Group Name	Institute Name	University Name	Course Name	Branch Name	Role
<input type="button" value="Save"/> <input type="button" value="Cancel"/>														


List of Faculty :

3 items found, displaying all items. 1

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Employee Id	Year Of Experience	Qualification	Course Name	Branch Name	Role	Action
1	Jayashree	S	Patil	9876543210	jspatil@mesimcc.com	107	7	BE(Comp)	MCA	MCA MGMT	Student	<a href="#">Update</a>
2	Ravindra	P	Vaidya	9999222276	rpvaidya@mesimcc.com	103	19	MCA	MCA	MCA MGMT	Student	<a href="#">Update</a>
3	Shilpa	S	Parlikar	9867451235	ssparlikar@mesimcc.com	105	16	MCA	MCA	MCA MGMT	Student	<a href="#">Update</a>

## Planning :-

## Faculty Subject Planning :-



**Web Based Learning & Teaching**  
Welcome: cadmin | [logout](#) | Date: Thu Apr 18 13:15:26 IST 2013


Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

**Binding:**

Select Group	MES	Select Institute	IMCC
Select University	Pune University	Select Course	MCA
Select Branch	MCA MGMT	Select Class	FY
Select Syllabus	2008	Select Division	A
Select Semester	Sem 1		
Select Faculty	RavindraVaidya		
Select Subject	<div style="border: 1px solid #ccc; padding: 2px;">                     Select DM PPMOB C                 </div>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

List of Faculty And Corresponding Subjects:

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**Web Based Learning & Teaching**  
Welcome: cadmin | [logout](#) | Date: Thu Apr 18 13:17:50 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

**Binding:**

Select Group	Select	Select Institute	Select
Select University	Select	Select Course	Select
Select Branch	Select	Select Class	Select
Select Syllabus	Select	Select Division	Select
Select Semester	Select		
Select Faculty	Select		
Select Subject	<div style="border: 1px solid #ccc; padding: 2px;">                     Select                 </div>	<input type="button" value="Add"/> <input type="button" value="Cancel"/>	

List of Faculty And Corresponding Subjects:

4 items found, displaying all items. 1

Sl.No.	Faculty First Name	Faculty Last Name	Course Name	Branch Name	Class Name	Division Name	Syllabus Name	Subject Name	Action
1	Shalpa	Parlikar	MCA	MCA MGMT	FY	A	2008	PPMOB	<a href="#">Update</a>
2	Ravindra	Vaidya	MCA	MCA MGMT	FY	A	2008	C	<a href="#">Update</a>
3	Shalpa	Parlikar	MCA	MCA MGMT	FY	A	2008	CO	<a href="#">Update</a>
4	Jayashree	Patil	MCA	MCA MGMT	FY	A	2008	OS	<a href="#">Update</a>

**Presentation :-****Video File Presentation :-**

The screenshot displays a web-based learning interface. At the top, there is a blue header with the logo 'PROgILE Edutech' and the text 'Web Based Learning & Teaching'. Below the header, a navigation bar contains dropdown menus for 'Select Semester' (Sem 1), 'Select Subject' (C), 'Select Chapter' (Introduction of C), and 'Select Topic' (History of C). The main content area features a green chalkboard-style slide titled 'History Of C :'. The slide contains the following bullet points:


- Created in early 70's on the DECEMBER PDP-11 by Dennis Ritchie.
- Evolved from BPCL and B.
- Both BPCL and B were "Type less" Language.
- Its very portable.

At the bottom of the slide, there is a video player control bar with play, pause, and volume icons. To the right of the slide, there is a vertical sidebar with three icons: a 'HOME' icon, a 'PPT' icon, and a 'W' icon.

**PPT File Presentation :-**

The screenshot displays a web-based learning interface. At the top, there is a blue header with the logo 'PROgILE Edutech' on the left and the text 'Web Based Learning & Teaching' on the right. Below the header, a navigation bar contains several dropdown menus: 'Select Semester' (Sem 1), 'Select Subject' (C), 'Select Chapter' (Introduction of C), and 'Select Topic' (History of C). The main content area shows a presentation slide with the title 'Introduction to C Programming' in blue, italicized font, and a subtitle 'Introduction' in red font. The slide has a decorative horizontal bar with a pattern of blue, yellow, and black squares. On the right side of the slide, there are three icons: a gear, a PPT icon, and a smartphone icon. At the bottom of the slide, there are navigation arrows. The footer of the interface contains the text 'Copyright Progle Edutech © Pvt Ltd. 2013'.

## Word File Presentation :-


Web Based Learning & Teaching

Welcome:Nistagandha.Joshi | [logout](#) | Date: Thu Apr 25 17:45:23 IST 2013

Media Center:

Select Semester  | 
 Select Subject  | 
 Select Chapter  | 
 Select Topic

List:

### Session 1 – A First Glimpse at the C Language

---

#### Introduction to C

C is a programming language that is used widely in industry either in its original form, or more widely in the object-oriented form C++.

You will find that a lot of business programming that takes place in Unix environments involves the writing of C programs. Many modern applications have been written in C++ - it was one of the first programming languages to comprehensively employ a rich set of object-orientated features. More modern language like C# and Java however have extended this further with principles such as the Interface (which makes the impossibly complex principle of multiple inheritance redundant) and name-spaces.

In Dennis M. Ritchie's words (one of the founders of C):-

C is quirky, flawed, and an enormous success. While accidents of history surely helped, it evidently satisfied a need for a system implementation language efficient enough to displace assembly language, yet sufficiently abstract and fluent to describe algorithms and interactions in a wide variety of environments.

#### A Brief History of C

The C Programming language was developed by Bell Laboratories in the early seventies. It was borne from two other languages – BCPL, which was closer to Assembly Language, and B, which introduced a lot of the structures that are use in C today. C introduced such things as character types and floating point arithmetic, structures, the preprocessor, and portability.

The principle aim of the object was to devise a language that was easy enough to understand to be "high-level" – i.e. understood by humans, but low-level enough to be applicable to the writing of systems-level software – in particular, the PDP-11 based Unix operating system. In this way, both flexibility and usability could be achieved. The idea was that the language should abstract the details of how the computer achieves its tasks in such a way as to ensure that C could be portable across different types of computers, and thus the Unix operating system could be compiled on other computers with a minimum of re-writing.




C as a language was in use by 1973, although extra functionality, such as new types, were introduced up until 1980.

In 1978, Brian Kernighan and Dennis M. Ritchie wrote the seminal work *The C Programming Language*, which is now the standard reference book for C.

The X3J11 committee produced a formal ANSI standard for C in 1989, which became the standard ISO/IEC 9899-1990.

In 1986, a descendant of C, called C++ was developed by Bjarne Stroustrup, and has now become the standard C in use in industry today. Other versions of C were also developed, such as Concurrent C [89], Objective C [86], C\* [90] and most recently, Microsoft's C#.

For a more complete history, see Dennis M. Ritchie's web page at <http://cm.bell-labs.com/cm/cs/who/dmr/chist.html>

## Reports :-

### Faculty wise Subject Report :-



Web Based Learning & Teaching

Welcome:cadmin | [logout](#) | Date: Thu Apr 18 13:17:50 IST 2013

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Report Generation:

Select Group:       Select Institute:


Select Faculty:

List of Faculty And Corresponding Subjects:

1 items found, displaying all items.1

Sr.No.	Faculty First Name	Faculty Last Name	Course Name	Branch Name	Class Name	Division Name	Subject Name
1	Ravindra	Vaidya	MCA	MCA MGMT	FY	A	C

## Division Wise Student Report :-



Web Based Learning & Teaching

Welcome admin | [Logout](#) | Date: Thu Apr 18 13:17:50 IST 2015

Masters
Institute Configuration
Content Management
Institute Masters
Faculty Subject Planning
Reports

Report Generation:

Select Group	MES	Select Institute	IMCC
Select Course	MCA	Select Branch	MCA.MGMT
Select Class	FY	Select Division	A

Student Registration Details:

5 items found, displaying all items. 1

Sr.No.	First Name	Middle Name	Last Name	Mobile No.	Email Id	Registration Number	User Name
1	Amp	Narayan	Sapkale	9673988909	amapsapkale99@gmail.com	20072531018	Amp Sapkale
2	sneha	A	C	3456754322	ff@gmail.com	101	sneha.C
3	pooja	G	G	9423915656	qq@gmail.com	102	pooja.G
4	purva	V	S	9876555788	kk@gmail.com	103	purva.S
5	nishi	V	J	4943646733	ss@gmail.com	104	nishi.J