#### PROJECT REPORT

ON

#### ACCOUNT MANAGEMENT SYSTEM

**FOR** 

PAARIJAT SOFTWARE SOLUTIONS Pvt. Ltd.

 $\mathbf{BY}$ 

#### **RESHU**

# UNIVERSITY OF PUNE MASTER OF COMPUTER APPLICATION M.E.S's INSTITUTE OF MANAGEMENT AND CAREER COURSES

(IMCC), PUNE-411029

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#### Reshu

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# **CHAPTER 1:**

# **INTRODUCTION**

#### 1.1 Company Profile

PaarijatSoftware'sis a leading solution provider for Internet based applications as well as standaloneapplications. The company has been promoted by some highly experienced Professionals dedicated to provide total IT solutions under one roof. It possesses not only the latest technology gadgets but also the most knowledgeableand experience hands to offer most user friendly customized solutions. PaarijatSoftware's provides high quality onsite services for software development and the end users on a broad range of hardware and software platforms and latest technologies.

AtPaarijatSoftware's with Technical proficiency and expertise, we cohesively integrate graphic design with web page layout, with interactive programming, with database driven content, to plan, build and deploy e-business and to emerge as one of the top IT serviceprovider.

PaarijatSoftware'sprovides services like Web Application C.M.S, Development, Mobile Development, Testing Q.A., e-Commerce, Off-Shore Outsourcing, Website/Server Maintenance Services.

The business philosophy of the company is to lay emphasis on Human Values and Personal Relations. 'At Paarijat Software's — end to end solutions for you'. Greatstress is laidon proper communication, transparency and human relations, whichforms an integral part of the corporate culture. At Paarijat Software's, we not only develop products but we develop relationships. We at Paarijat Software's believe in teamwork. With every new day the quest for acquiring new competencies continues. Forever searching, experimenting, innovating, learning, moving ahead with our sincere efforts and dedications, shaping the future, and challenging our competencies to create new opportunities, is a never-ending process in the company.

#### 1.2 Existing system and Need for system

- The existing system is a manual system. Here the employees needs to save the information in the form of excel sheets or Disk Drives.
- There is no sharingis possible if the data is in the form of paper or Disk Drives.
- The manual system gives us very less security for saving, datasome data may be lost due to mismanagement.
- It's a limited system and fewer users friendly.
- Searching of particular information is very critical it takes lot of time.
- It is very critical to maintain manually fee details of student and salary details of employee.
- Searching fee details of student and payroll detailsemployee details in account management system is a tedious job.
- This system may not fulfill the requirements managing of account system properly.

- The current system may not organize students and employees details efficiently.
- In existing system there is no knowledge repository.
- Manual report generation is time taking.

#### 1.3 Scope of Work

TheMain aim of Online"Account Management System"is to automate the process of Accounting transaction and provide the efficiency of administrative system.Reduce the tedious work of store and save the information of student fee details and salary of school staffs.It also provide facility for guardian to see online fee structure of their child.

Following are the option of fee module:--

#### Fee Period:-

Fee Period decided by admin whether it is monthly, quarterly etc. eg-(jan-mar, apr-july).

#### Fee Structure:-

Admin define fee types like admission fee,tuitionfee,computer fee etcand define amount corresponding to fee type. Fee type define according to classes in the school.

#### Fee Concession:-

Admin define different Type Concessions to student on the basis of their category, cast, management quota etc.

#### Other Fee Collection:-

It manages the fee collection of other events and courses conducted during curriculum in the school.eg: computer training for one month, fluteclasses, cultural events etc.

#### Collect Fee:-

It takes admission number as an input and shows fee types, totalamount, concessionamount, late fine amount etc and calculates the final fee that has to be paid by the student/guardian.

#### SMS Facility:-

Guardian can receive the SMS from an accountant about the late fee date and amount to be paid.

#### Late Fine:-

Admin define late fine date and amount on that basis accountant calculate the fee of students.

#### Payroll System:-

Salary of an employee is calculated per month by an accountant. On the basis of leaves, designation.

It also manages salary of non-teaching staff such as: - accountant, administrator, HR, director etc.

Following are the option of Salary module:--

#### **Deduction Details:-**

Admin define deduction type and corresponding amount.

#### Pay Structure:-

Admin define the pay Structure type for the employee and amount corresponding to pay structure .it is different for teaching and non-teaching employee.

#### Generate pay slip:-

Accountant generates the pay slip for employee by calculating number of leave taken by employee. And how much deduction provided to employee.

#### SMS Facility:-

Employee can receive the SMS from an accountant about their salary details .

#### 1.4 Operating Environment - Hardware and Software

**Hardware Requirement:** 

**Server Side:-**

**Processor**: -Intel Pentium IV or More.

**RAM** : - 512 MB.

Hard Disk :- 80 GB.

**Client Side:-**

**Processor:** -Intel Pentium4 or More.

**RAM** : - 512 GB.

**Hard Disk** : - 80 GB.

## **Software Requirement:**

**Server Side:-**

Internet Explorer 6.0 or later version.

MYSQL

Windows XP or later

JDK 1.5 or later

Tomcat 7.0

#### **Client Side:-**

Internet Explorer 6.0 or later version.

#### 1.5 <u>Detail Description of Technology Used</u>

#### **J2EE**

The Java 2 Platform, Enterprise Edition (J2EE) defines the standard for developing multitier enterprise applications. The J2EE platform simplifies enterprise applications by basing them on standardize, modular components, by providing a complete set of services to those components, and by handling many details of application behavior automatically, without complex programming.

The J2EE platform takes advantage of many features of the Java 2 Platform, standard edition (J2EE), such as "Write Once Run Anywhere" portability, JDBC API for database access, CORBA technology for interaction with exiting enterprise resources, and a security model that protects data even in internet applications. Building on this base, Java 2 Platform, Enterprise Edition adds full support for enterprise JavaBeans components, java Servlets API, Java Server Pages and XML technology.

The J2EE standard includes complete specifications and compliance tests to ensure probability of applications across the wide range of existing enterprise system capable of supporting the J2EE platform.

#### **JSP**

Java Server Pages (JSP) is a java technology that helps software developers serve dynamically generated web pages based on HTML, XML, or other document types. Released in 1999 as Sun's answer to ASP and PHP, JSP was designed to address the perception that the Java programming equivalent didn't provide developers with enough support for the web.JSP syntax is a fluid mix of two basic content forms: Scriptlet elements and markup. Markup is typically standard HTML or XML, While Scriptlet elements are delimited blocks of java code. This may be intermixed with the markup. When the page is requested the java code is executed and its output is added, in situ, with the surrounding markup to create the final page. JSP pages must be compiled to Java byte code classes before they can be executed, but such compilation is needed only when a change to the source JSP file has occurred.

The JSP syntax adds additional XML-like tags called JSP actions, to invoke built in functionality.

#### **TOMCAT 7.0 (SERVER)**

Apache Tomcat (or Jakarta Tomcat or simply Tomcat) is an open source servlet container developed by Apache Software Foundation (ASF). Tomcat implements the Java Servlet and the Java Server Pages (JSP) specifications from Sun Microsystems, and provides a "pure java" HTTP web server environment for java code to run.

Tomcat should not be confused with the Apache web server, which is a C implementation of HTTP web server; these two web servers are not bundled together. Apache Tomcat includes tools for configuration and management, but can also be configured by editing XML configuration files.

#### **Advanced Tomcat Features**

- The following subjects are discussed
- Accept Logs
- Single Sign-on
- Request Filtering

- Persistent Session Manager
- Tomcat and JDBC, JNDI
- JAVA Mail Session
- Configuring Lifecycle Listeners

#### **MYSQL**

MYSQL is a free, widely used SQL engine. It can be used as a fast database as well as a rock-solid DBMS using modular engine architecture.

The purpose of this wiki book is to provide a practical knowledge on using the database from two points of view:

- Application Developer: learn about SQL basics, MyAdmin, query optimization.
- System Administrator: learn about installation, security, maintenance, failover, high availability.

The reasons for using MYSQL as a backend are

- It is freeware.
- Open source.
- Relational database.
- Compatible with SQL.
- Supports cursors Triggers and Stored procedures.
- Graphical user Interface.
- Speed.
- Platform Independent.
- Performance.

# CHAPTER 2: PROPOSED SYSTEM

#### 2.1 Proposed System

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

- User Friendliness is provided in the application with various controls provided by system Rich User Interface.
- The system makes the overall project management much easier and flexible.
- The user information can be stored in centralized database which can be maintained by the system.
- This can give the good security for user information because data is not in client machine.
- Authentication is provided for this application only registered
   Users can access.
- There is no risk of data management at any level while the project development is under process.

- The speed and accuracy of this system will improve more and more.
- The system will provide reports in a formal way.

#### 2.2 Objective of the System

- The main Objective of this system is to maintain considerable information of the students and employees of school.
- Maintain the fee and salary details of students and employees.
- Query handling in robust way.
- Maintains the different types of concession fee, other fee, deduction type, fee structure,pay structure etc.
- Calculating the late fine of students.
- Calculating the fee and salary details of students and employees of school.
- To maintain the knowledge repository in an efficient manner so that the search for query results become faster and easier.
- To generate all kinds of reports related to the organization.

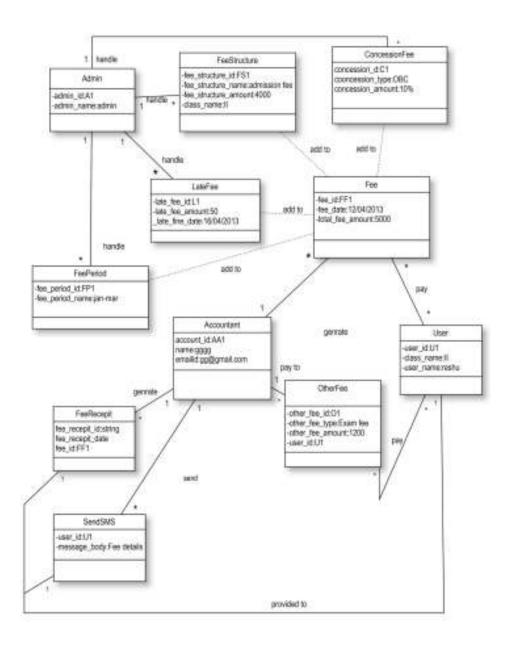
# 2.3 <u>User Requirement</u>

Sr No.	Requirement	Description
1	Automatic	System should contain more Of automatic work rather than manual work.
2	Record Searching	Searching of records should Be done easily.
3	Reflection of changes	If changes are to be made in one record then they have to be reflected in other required fields.
4	Report Generation	Report should be generated As per their requirement and in short duration of time.
5	Storing of transactions	All the transactions should be stored in the database in the proper sequence.
6	Interactivity	The system should be interactive.
7	Details of previous transactions	There should be easy way to retrieve the details of previous transactions.
8	Comparison between the records	There should be a convenient way for comparison to be made between the records.
9	Moderation of the Work	Moderation of the Work should be easily made.

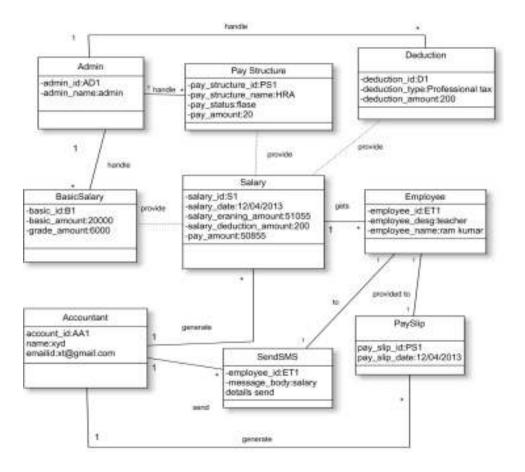
# CHAPTER 3: ANALYSIS & DESIGN

#### 3.1 Object Diagram

### **Object Diagram for Fee**

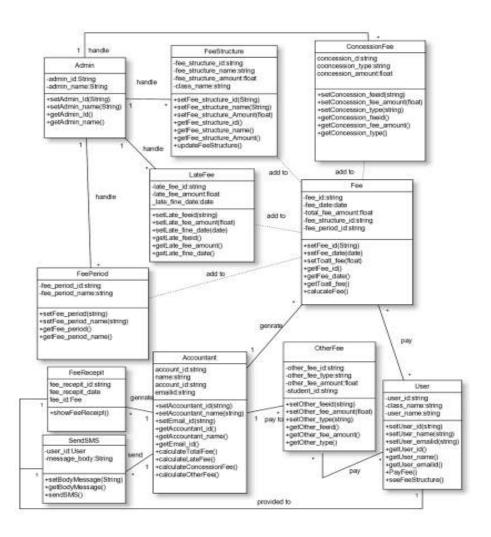


#### **Object Diagram for Payroll**

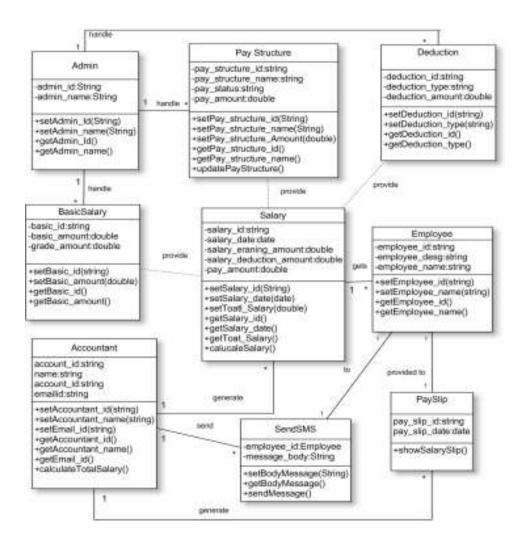


#### 3.2Class Diagram

#### **Class Diagram for Fee**

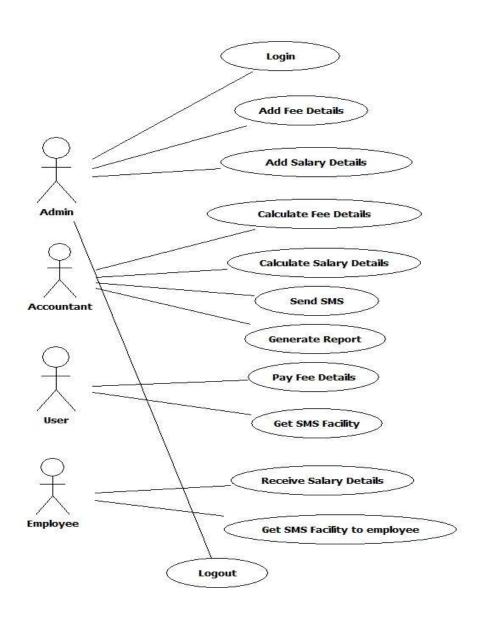


#### **Class Diagram for Payroll**

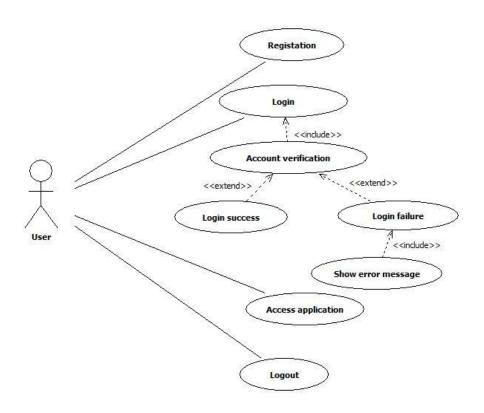


#### 3.3 <u>UseCase Diagram</u>

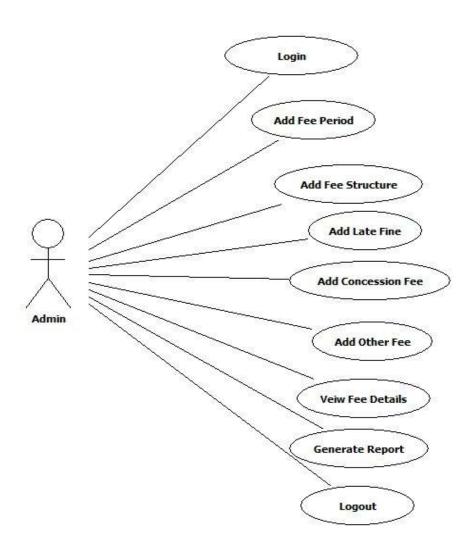
### **UseCaseDiagram for Account Management System**



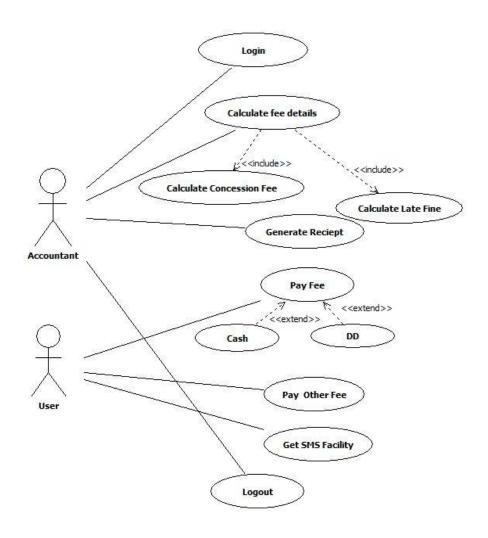
# **UseCase Diagram for user authentication and authorization process of Account Management System**



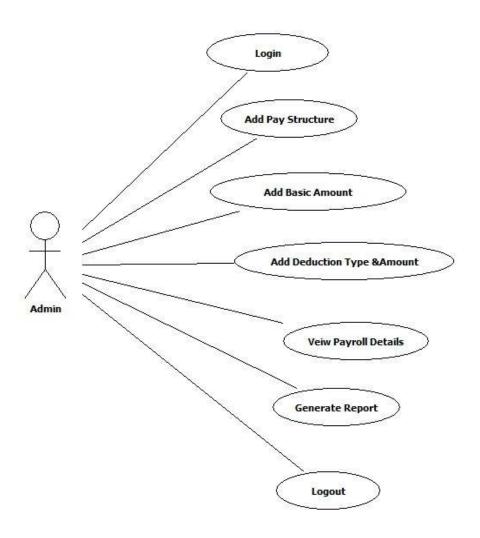
## UseCaseDiagram for Fee Admin



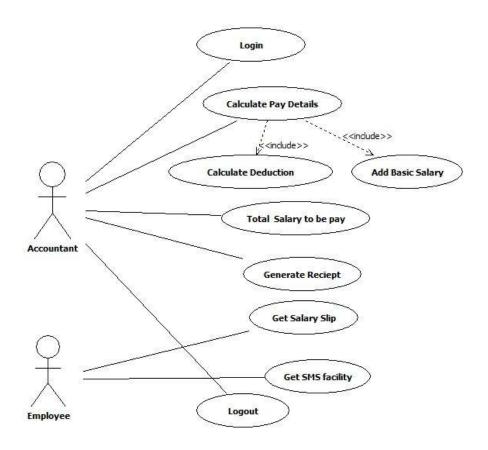
## **UseCaseDiagram for Fee Accountant**



## UseCaseDiagramFor Payroll Admin

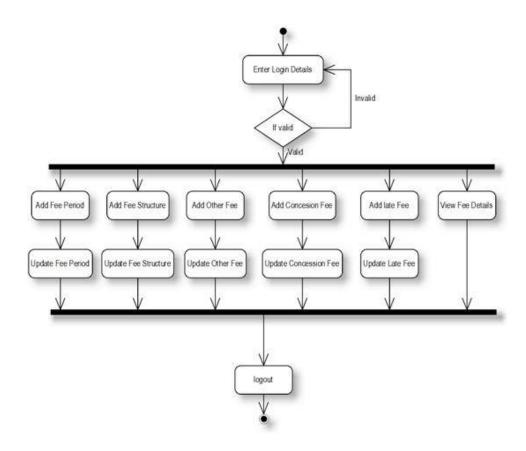


## **UseCaseDiagramFor Payroll**

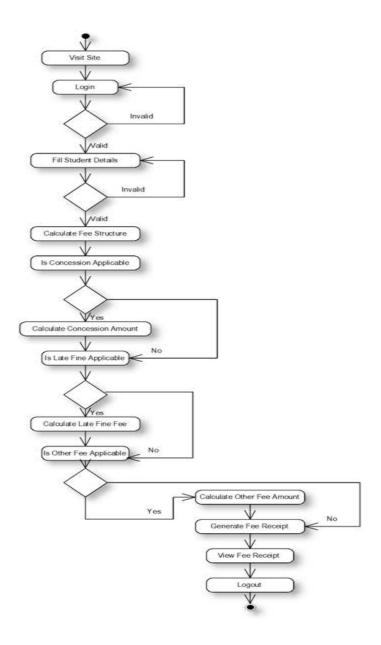


# 3.4 Activity Diagram

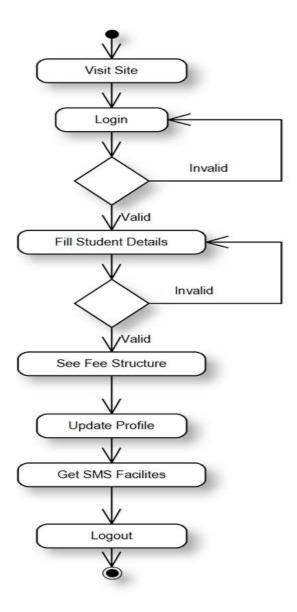
## **Activity Diagram for Fee Admin**



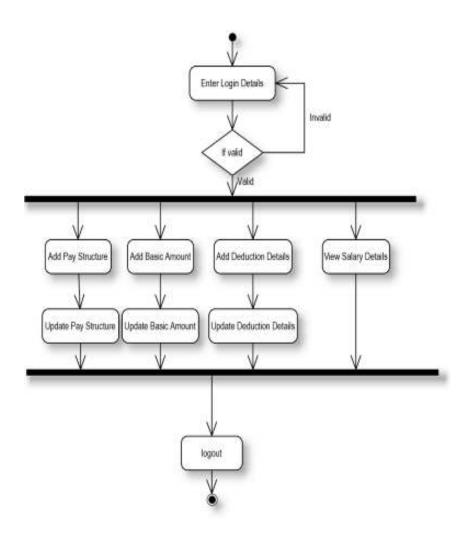
## **Activity Diagram for Fee Accountant**



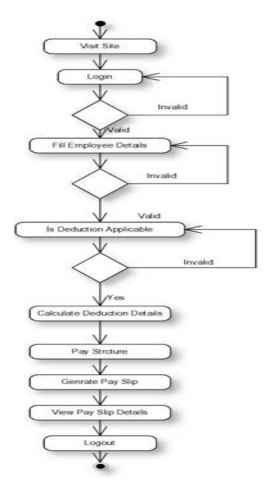
## **Activity Diagram for User**



## **Activity Diagram Payroll Admin**

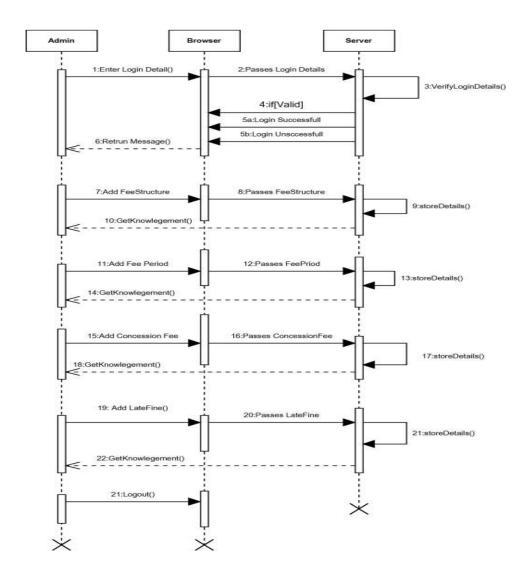


## **Activity Diagram for Payroll Accountant**

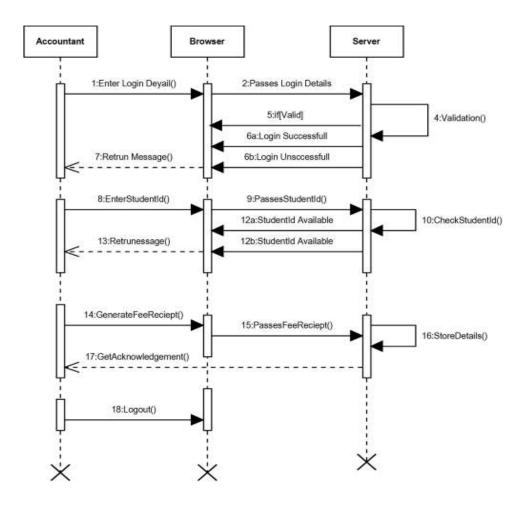


#### 3.5 Sequence Diagram

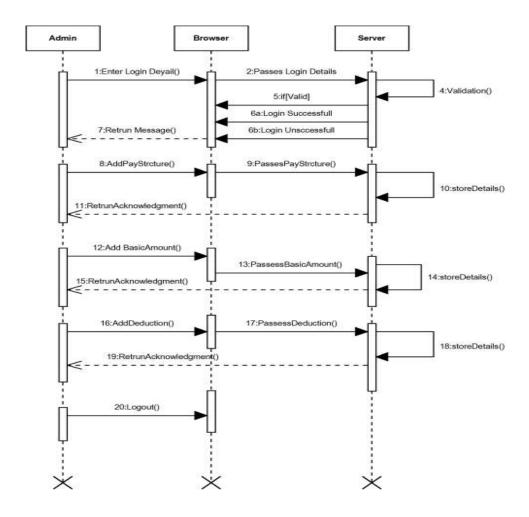
#### **Sequence Diagram for Fee Admin**



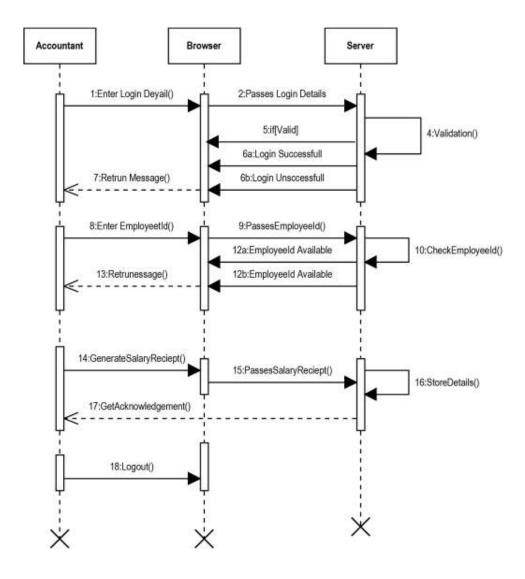
# **Sequence Diagram for Fee Accountant**



## **Sequence Diagram for Payroll Admin**

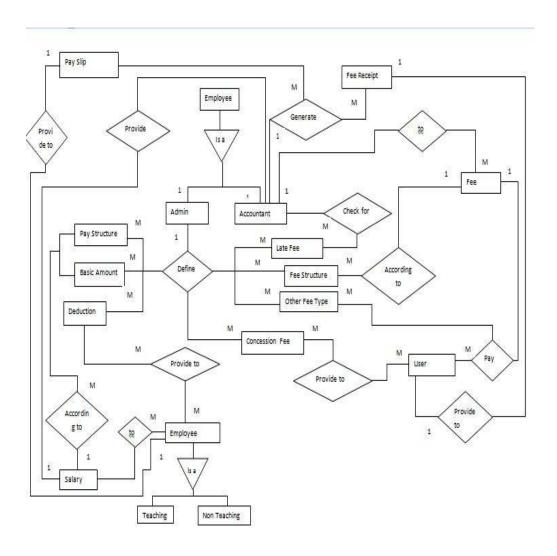


#### **Sequence Diagram for Payroll Accountant**

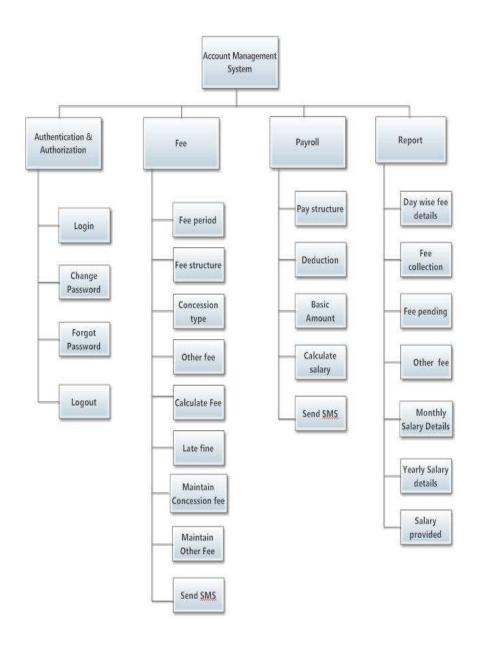


# 3.6E-R Diagram

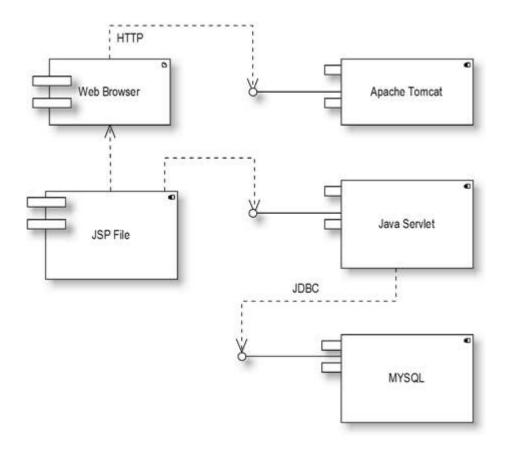
## E-R Diagram for Accountant Management System



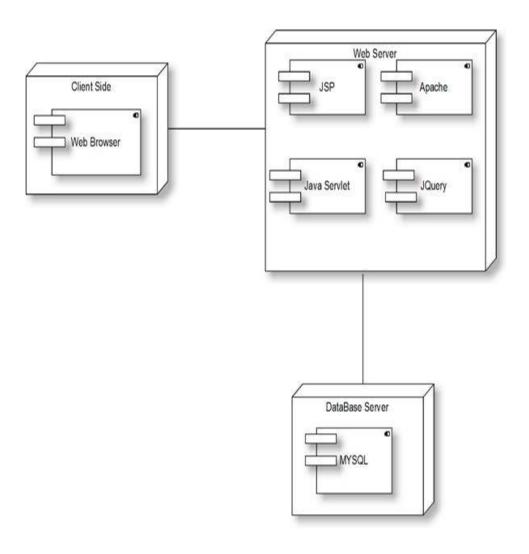
#### 3.7 Module Hierarchy



## 3.8 Component Diagram



## 3.9 Deployment Diagram



#### 3.10 Module Specification

#### This project contains following Modules:-

- Authentication and authorization
- Fee Module
- Payroll Module
- Report Module

#### **Authentication and authorization**

1. This module deals with Authentication and authorization of the user of

Account management system.

Authentication: the user is valid or not.

Authorization: what type of access privilege the user has.

- 2. There are 3 types of user in this system
  - i) Admin
  - ii) Accountant
  - iii) User

- 3. Admin can perform these all functionality
  - i) Add Fee Period
  - ii) Add Fee Structure
  - iii) Add Concession Fee
  - iv) Add Other Fee
  - v) Add Late Fine
  - vi) Add Pay Structure
  - vii) Add Deduction Details
  - viii) Add Basic Amount
- 4. Accountant can perform these all functionality
  - i) Generate Fee receipt
  - ii) Generate Salary Slip
  - iii) Maintain Concession Fee
  - iv) Maintain Other Fee
  - v) Send SMS

- 5. User can perform these all functionality
  - i) View Fee Structure
  - ii) Provide SMS Details about Student Fee and last date to be pay

#### Fee Module

- Calculate fee details of student according to fee period and according to their class.
- 2) Calculate late fine also of particular student.
- 3) Calculate concession details that provided to students.
- 4) Provide Concession to students.
- 5) Maintain Other fee details of students.
- 6) Generate Fee receipt.
- 7) Send SMS to parent.

#### **Payroll Module**

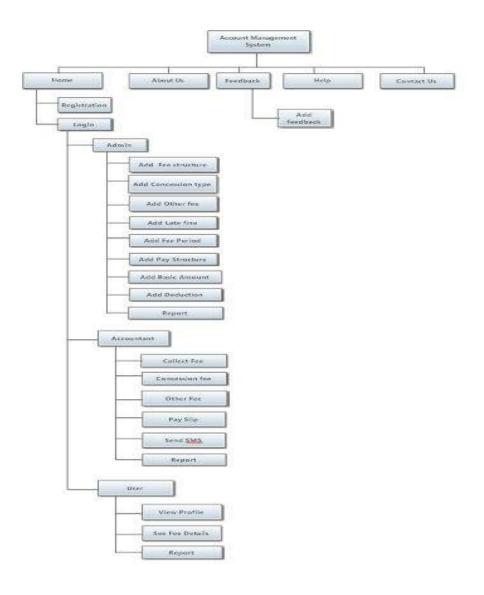
- 1) Calculate pay structure of employee according to designation .
- 2) Calculate deduction details of employee provided to employee.
- 3) Generate Salary Slip.
- 4) Send SMS to Employee.

#### **Report Module**

- 1) This module deals with all type of report generated by the admin as well as accountant of the school.
- 2) Admin can generated report on following
  - i) Report related to fee details.
  - ii) Report related to payroll details.
- 3) Accountant generated report on following
  - i) Day wise fee details

- ii) Fee collection
- iii) Fee pending
- iv) Concession fee
- v) Other fee
- vi) Monthly and yearly Salary details
- vii) Salary provided

#### 3.11 Website Map



#### 3.12 User Interface Design

#### **Home Page**



#### **User Registration**



## **Login Page**



#### **Admin Page**



#### **Add Fee Period**



#### **Add Fee Structure**



#### **Accountant Page**



#### **Collect Fee**



## **Pay Slip**



#### **User Page**



## 3.13 Table Specification

## Fee Module:-

Fee\_structure\_master:-

Field	Data Type	Length	Constraint
Fee_structure_id	Varchar	10	Primary Key
Fee_structure_name	Varchar	30	Not Null
class_id	Varchar	10	Foreign Key of
			Class_master
Amount	Double		Not Null
fee_session	Varchar	10	Not Null

#### Fee\_period\_master:-

Field	Data Type	Length	Constraint
fee_period_Id	Varchar	10	Primary Key
fee_period_type	Varchar	30	Not Null
fee_session	Varchar	10	Not Null

#### Other\_fee\_master:-

Field	Data Type	Length	Constraint
Other_fee_Id	Varchar	10	Primary Key
Other_fee_type	Varchar	30	Not Null
Other_fee_amount	Double		Not Null
Other_fee_session	Varchar	10	Not Null

#### Concession\_fee\_master:-

Field	Data Type	Length	Constraint
Concessionfee_Id	Varchar	10	Primary Key
Concessionfee _type	Varchar	30	Not Null
Concession_fee_amount	Double		Not Null
Concessionfee_session	Varchar	10	Not Null

#### Late\_fee\_master:-

Field	Data Type	Length	Constraint
Late_fee_Id	Varchar	10	Primary Key
Late_fee_date	Date		Not Null
Late_fee_amount	Double		Not Null
Late_fee_session	Varchar	10	Not Null

## Other\_fee\_details:-

Field	Data Type	Length	Constraint
Other_fee_type_id	Varchar	10	Primary Key
Admission_no	Varchar	15	Foreign Key of
			StudentDetails
Pay_date	Date		Not Null
Other_fee_Id	Varchar	10	Foreign Key of
			Other_fee_master
Remark	Varchar	30	Not Null

## Concession\_fee\_details:-

Field	Data	Length	Constraint
	Type		
Concession_fee_type_id	Varchar	10	Primary Key
Admission_no	Varchar	10	Foreign Key of
			Student_details
Concessionfee_Id	Varchar	10	Foreign Key of
			Concession_fee_mas
			ter
fee_period_Id	Varchar	10	Foreign Key of
			Fee_period_master

# Collect\_fee:-

Field	Data	Length	Constraint
	Type		
Collect_fee_id	Varchar	10	Primary Key
Admission_no	Varchar	10	Foreign Key of
			Student_details
Pay_date	Date		Not Null
Last_fee_amount	Double		Not Null
Late_fee_id	Varchar	10	Foreign Key of
			late_fee_master
Fee_period_id	Varchar	10	Foreign Key of
			fee_period_master
Status	Varchar	8	Default 'Not Paid'
Concession_fee_type_id	Varchar	10	Foreign Key of
			Concession_fee_details
Pervious_fee	Double		Not Null
Total_fee	Double		Not Null
Final_fee	Double		Not Null

#### Payment\_details:-

Field	Data Type	Length	Constraint
payment_id	Varchar	10	Primary Key
Collect_fee_id	Varchar	10	Foreign Key of Collect_fee
Payment_mode	Varchar	10	Not Null
dd_date	Date		Not Null
dd_no	Varchar	20	Not Null
Bank_name	Varchar	20	Not Null
Branch_name	Varchar	20	Not Null
Amount	Double		Not Null

#### Student\_details:-

Field	Data Type	Length	Constraint
Admission_no	Varchar	10	Primary Key
User_id	Varchar	10	Foreign Key of User
Class_SectionSt	Varchar	10	Foreign Key of
rength_id			ClassSectionStrength
			_master
Roll_no	Int	5	Not Null
Session	Varchar	10	Not Null

#### Class\_master:-

Field	Data Type	Length	Constraint
Class_id	Varchar	10	Primary Key
Class_name	Varchar	10	Not Null
Session	Varchar	10	Not Null

## ClassSectionStrength\_master:-

Field	Data	Length	Constraint
	Type		
Class_SectionStrength_id	Varchar	10	Primary Key
Class_id	Varchar	10	Foreign
			keyofClass_master
Section_name	Varchar	10	Not Null
Strength	Int	10	Not Null
Session	Varchar	10	Not Null

#### User:-

Field	Data	Length	Constraint
	Type		
User_id	Varchar	10	Primary Key
First_name	Varchar	20	Not Null
Last_name	Varchar	20	Not Null
User_name	Varchar	20	Not Null
Password	Varchar	20	Not Null
Address	Varchar	50	Not Null
City	Varchar	20	Not Null
State	Varchar	20	Not Null
Country	Varchar	20	Not Null
Pincode	Int	6	Not Null
Email_id	Varchar	20	Not Null
Mobile_number	Int	10	Not Null
Security_question	Varchar	20	Not Null
Security_answer	Varchar	20	Not Null
User_status	Varchar	5	Default'False'

<u>Payroll:-</u> Employee\_details:-

Field	Data Type	Length	Constraint
Employee_id	Varchar	10	Primary Key
user_name	Varchar	30	Not Null
Password	Varchar	10	Not Null
Mobile_no	Int	10	Not Null
Name	Varchar	30	Not Null
Address	Varchar	30	Not Null
City	Varchar	20	Not Null
State	Varchar	20	Not Null
Country	Varchar	20	Not Null
Pin_code	Int	6	Not Null
Qualification	Varchar	10	Not Null
Marital_status	Varchar	10	Not Null
Account_number_pf	Varchar	20	Not Null
PAN_no	Varchar	20	Not Null
Date_of_joining	Date		Not Null
Gender	Varchar	10	Not Null
Date_of_birth	Date		Not Null
Department_id	Int	10	Foreign Key of
			department_master
Employee_type	Varchar	15	Not Null
Designation	Varchar	30	Not Null
Employee_status	Varchar	6	Default'False'
Grade	Varchar	10	Not Null

# Department\_master:-

Field	Data Type	Length	Constraint
Department_id	varchar	10	Primary Key
Department_name	varchar	30	Not Null

# Pay\_Structure\_master:-

Field	Data Type	Length	Constraint
Pay_Structure _id	Int	10	Primary Key
Pay_Structure _type	Varchar	30	Not Null
Amount	Double		Not Null
Pay_Status	Varchar	6	Default 'False'

## Basic\_amount:-

Field	Data Type	Length	Constraint
Basic_id	Varchar	10	Primary Key
Employee_type	Varchar	10	Not Null
Grade	Varchar	10	Not Null
Basic_amount	Double		Not Null
Pay_Grade	Double		Not Null

# Deduction\_master:-

Field	Data Type	Length	Constraint
Deduction _id	Varchar	10	Primary Key
Deduction_type	Varchar	10	Not Null
Deduction_amount	Double		Not Null
Deduction _Status	Varchar	6	Default 'False'

# Pay\_slip:-

Field	Data Type	Length	Constraint
Salary_id	Varchar	10	Primary Key
Employee_id	Varchar	10	Foreign Key of
			Employee_details
Pay_date	Date		Not Null
Month	Varchar	10	Not Null
Pay_Structure_Amo	Varchar	10	Foreign Key of
unt _id			Pay_Structure_Amou
			nt_master
Basic_id	Varchar	10	Foreign Key of
			Basic_amount
Gross_pay	Double		Not Null
Total_deduction	Double		Not Null
Net_pay	Double		Not Null

## 3.14 Test Procedures and Implementation

#### What is software testing?

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and code generation. It is a process of executing a program with a primary objective of finding errors. Testing gives the guarantee that the software does not fail and runs according to its specifications and in the way the end user expects. This can be done by various software testing techniques which provide a systematic guidance for designing tests that exercise the input and output domains of the program to uncover errors in program function, behavior and performance.

The following software testing techniques were used in order to uncover errors in the system:

- Unit testing
- Integration testing

- White box testing
- Black box testing
- Acceptance tests (Alpha and Beta testing)

#### 1: Unit Testing

Unit testing is normally considered as an adjunct to the coding step. It is the test for the small units of code, e.g. programs, modules or procedures, in order to ensure that they perform their intended functions. All possible paths through the control structure are exercised to ensure that all statements in a program are executed at least once. Unit testing is also done to test the data flow across a module interface.

The following errors are uncovered during unit testing:

- Comparison of different data types.
- Incorrect logical operators or precedence.
- Incorrect comparison of variables.
- Improper or nonexistent loop termination.

• Improperly modified loop variable.

#### 2: Integration Testing

Integration testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. During this activity, unit tested components are taken and a program structure is built as per the design. Then incremental integration is performed on the system. This means that programs are constructed and tested in small increments instead of testing the entire program as a whole. This is done because correction of errors becomes difficult in case of whole program testing as many errors were detected and it is not easy to correct them at one go. Thus, through incremental integration testing, any error uncovered could be easily noted and corrected and interfaces are tested completely.

#### 3: White Box Testing

White box testing is also called as glass box testing. It is related with the structure (internal logic) of the program. It helps in uncovering many errors that black box testing cannot. During white box testing activity, every statement of programs is executed at least once. All independent paths are also executed. Every logical decision is executed to check both true and false conditions. All loops are executed at their boundaries and within their operational bounds. Validation checks are also done during this process.

#### 4: Black Box Testing

Black box testing, also known as behavioral testing, focuses on the functional requirements of the software. It is related to input and output only and not related with the internal structure of the program. This testing is also done so as to find errors such as:

- Initialization and termination errors
- Behavior and performance errors
- Incorrect or missing functions
- Interface errors
- Errors in data structures and external database access
- Performance errors

#### 5: Acceptance Testing (Alpha & Beta Testing)

An acceptance test is a test carried out by the customer or end user rather than the developer in order to enable the customer to validate all requirements. Alpha testing and beta testing are two types of acceptance tests that are conducted.

#### **6: Alpha Testing**

Alpha test is conducted in a controlled environment. As a matter of fact, the end user conducts alpha test at the developer's site. During the course of the system development, the end user is operating the software in front of the developer and the errors and other problems are recorded. Rectification is made accordingly.

#### 7: Beta Testing

Beta testing is also conducted by the end user, but in the absence of the developer. Here, the end user himself records all the problems that he encounters during testing the system and then reports them to the developer at regular intervals. As a result of problems reported during beta testing, modifications are made to overcome the problem

# **Test Cases**

Test (	Case ID#		1		
Test C	Case Name		To tes	st functionality of le	ogin form.
Prerec	quisite		Login	form should get lo	aded.
Objec	Objective			e out bugs in logii	n form.
Sr.	Steps be to	Expected		<b>Actual Result</b>	Pass/Fail
No	executed	Result			Criteria
	Username				
	<b>Textbox</b>				
	Test cases				
1	1.Enter	It should		It display error	Pass
	Username	display en	ror	message"Enter	
	With less	message "	Enter	username with	
	than 6	username	with	6 characters."	
	Characters.	6 characte	rs."		
	2. Enter				
	correct				
	password.				
	3. Click on				
	Submit				
	button.				
2.	1.Enter	It should		It display	Pass
	Username	display		homepage.	
	With 6	homepage	:-		
	Characters.				
	2. Enter				
	correct				
	password.				
	3. Click on				
	Submit				
	button.				

3.	1. Enter Username with greater than 30 Characters. 2. Enter correct password 3. Click on Submit button.	It should display error message"Enter username with maximum 30 characters."	It does not accept username with greater than 30 characters.	Pass
4.	1.Enter Username with 10 characters. 2. Enter correct password 3. Click on Submit button.	It should display homepage.	It displays homepage.	Pass
5.	1.Enter Username As blank field. 2. Enter correct password 3. Click on Submit button.	It should display error message "Enter username".	It displays error message "Enter username".	Pass

	Password			
	Textbox			
	Test cases			
1.	1. Enter correct username. 2.Enter password with less than 6 Characters. 3. Click on Submit button.	It should display error message "Enter password with minimum 6 characters."	It displays error message "Enter password with minimum 6 characters."	Pass
2.	1. Enter correct username. 2.Enter password with greater than 10 Characters. 3. Click on Submit button.	It should display error message "Enter password with maximum 10 characters."	It should display error message "Enter password with maximum 10 characters."	Pass
3.	1. Enter correct username. 2.Enter password with 10 Characters. 3. Click on Submit button.	It should display Homepage.	It displays homepage.	Pass

4.	1. Enter	It should	It displays	Pass
	correct	display	Error	
	username.	Error message"	message"	
	2.Enter	Enter	Enter	
	password	password".	password".	
	as blank			
	field.			
	3. Click on			
	Submit			
	button.			
5.	1. Enter	It should	It displays	Pass
	correct	display error	error message	
	username.	message "Enter	"Enter	
	2.Enter	password with	password with	
	password	alphabets	alphabets	
	with	and/or digits	and/or digits	
	characters,	only.	only.	
	digits and			
	special			
	Characters.			
	3. Click on			
	Submit			
	button.			

Test Cas	Test Case ID#		2		
<b>Test Cas</b>	e Name		To test functionality of user		fuser
				ration form.	1 11
Prerequi	site			Registration form	n should get
Ohiodia			loade		nor.
Objectiv	e			nd out bugs in Us tration form.	sei
Sr. No	Steps to	Expected	_	Actual	Pass/Fail
51.110	executed	Result		Result	1 435/1 411
	First name	resure		resure	
	Textbox				
	Test cases				
1.	1. Enter	It should		It displays	Pass
	first name	display e	rror	error	
	as blank	message		message	
	field.	"Enter fin	rst	"Enter first	
	2. Click on	name".		name".	
	Submit				
	button.				
2.	1. Enter	It should		It displays	Pass
	first name	display e	rror	error	
	with digits.	message		message	
	2. Click on	"Enter		"Enter	
	Submit	alphabets	3	alphabets	
	button.	only".		only".	
3.	1. Enter	It should		It accepts	Pass
<i>J</i> .	first name	display e	rror	first name	1 000
	with greater	message	1101	with greater	
	than 50	"Enter fin	rst	than 50	
	characters.	name wit		characters.	
	2. Click on	maximun		onaraotors.	
	Submit	character			
	button.		-		

4.	1.Enter first name with digits And characters. 2. Click on Submit button.	It should display error message "Enter alphabets only."	It displays error message "Enter alphabets only."	Pass
5.	1.Enter first name as Characters.  2. Click on Submit button.	It should display home page.	It displays home page.	Pass
	Last name			
	Textbox Test cases			
1.	1. Enter last name as blank field. 2. Click on Submit button.	It should display error message "Enter last name".	It displays error message "Enter last name".	Pass
2.	1. Enter Last name with digits. 2. Click on Submit	It should display error message "Enter alphabets	It displays error message "Enter alphabets	Pass

	button.	only".	only".	
3.	1. Enter Last name with greater than 50 characters. 2. Click on Submit button.	It should display error message "Enter last name with maximum 50 characters."	It accepts last name with greater than 50 characters.	Pass
4.	1.Enter last name with digits And characters. 2. Click on Submit button.	It should display error message "Enter alphabets only."	It displays error message "Enter alphabets only."	Pass
5.	1.Enter last name as Characters.  2. Click on Submit button.	It should display home page.	It displays home page.	Pass
	Mobile			
	Number Textbox			

	Test cases			
1.	1.Enter	It should	It displays	Pass
	Mobile	display error	error	
	Number as	message	message	
	blank field.	"Enter Mobile	"Enter	
	2. Click on	Number."	Mobile	
	Submit		Number."	
	button.			
2.	1. Enter	It should	It displays	Pass
	Mobile	display error	error	
	Number	message	message	
	with less	"Enter Mobile	"Enter	
	than 10	Number with	Mobile	
	digits.	10 digits."	Number	
	2. Click on		with 10	
	Submit		digits."	
	button.			
3.	1. Enter	It should	It displays	Pass
	Mobile	display home	home page.	
	Number	page.		
	with 10			
	digits.			
	2. Click on			
	Submit			
	button.			
4.	1. Enter	It should	It displays	Pass
	Mobile	display error	error	
	Number	message	message	
	with	"Enter Mobile	"Enter	
	alphabets.	Number with	Mobile	
		digits only."	Number	
	2. Click on		with digits	
	Submit		only."	
	button.			

# **CHAPTER 4:**

**USER MANUAL** 

#### 4.1 User Manual

User Manual provides user with the ease of operation the system. If intended user of the system feels any problem in operation the system, the can refer to this manual to clear their doubts. This user manual guides the users of the system and provides them the briefing of the system of the system to how to use the system.

**Browsing Website** 

Starts TOMCAT Server and open an instance of IE and type URL(Uniform Recourse Locator)

http://localhost:8080/AccountManagementSystem/on the browser and press enter. You will see the home page on the URL type

## **Home Page**



This page contains two buttons

- 1) Login
- 2) Registration

Click on registration button to register new parent /guardian.

After clicking on registration, registration page is displayed.

# **Registration Page for Parent**



• Click on Login button to login into the system.

## **Login Page**



Enter E-mail ID and Password to login into the system.

After filling the valid E-mail ID and Password ,based on the type of user home page is displayed.

The user can use the system as per their requirement following their permission.

## **Change Password**



## For Admin

#### **Home Page**



This page contains all the menus and links that are granted to that user. The menu and linkShown on home page populate dynamically according to user category while the page

load. A user can select any of the links and menus and starts using the system.

#### **Add Fee Structure**

To add new fee structure click on fee structure



#### **View Fee Structure**

To View/Update/Delete fee structure click on View Fee structure.

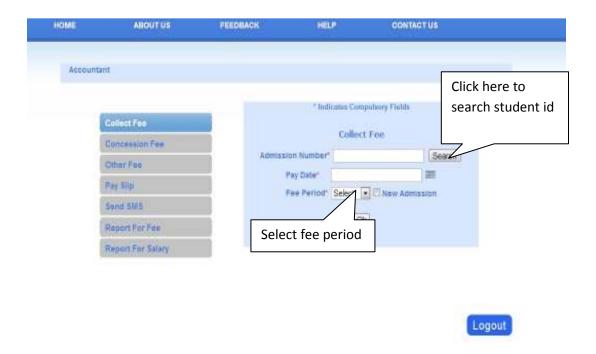


# For Accountant

# **Home Page**



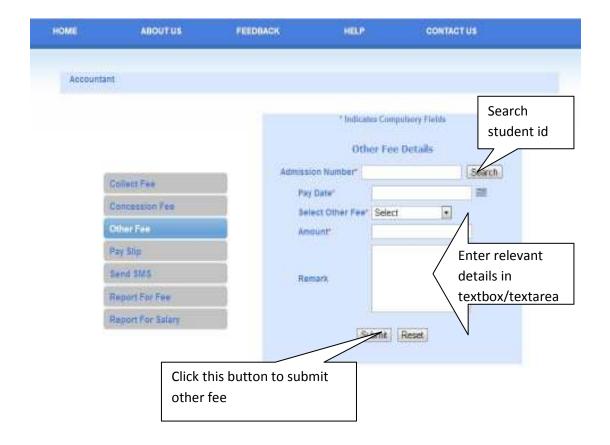
## **Collect Fee**



# **Pay Slip**



## **Other Fee Details**



# For User

# **Home Page**



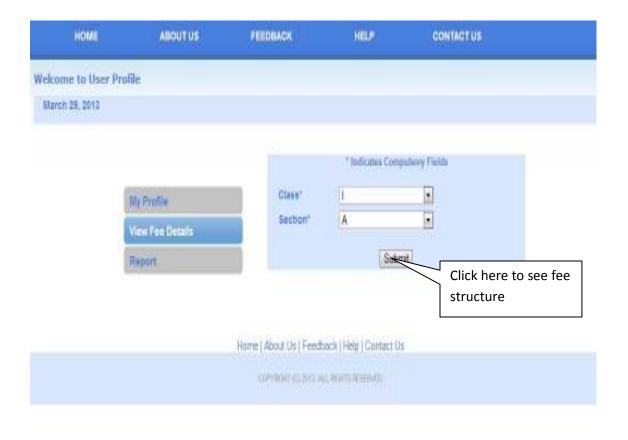
## **User Profile**

To display user profile and update their profile



## **View Fee Structure**

To view the fee structure of their child

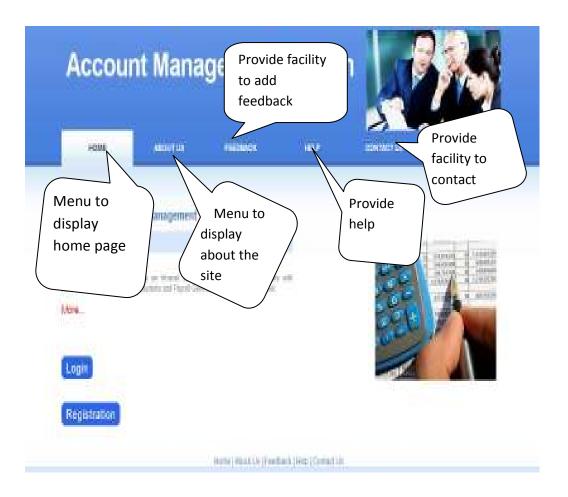


## 4.2 Operation Manual/Menu Explanation

Menu screen provide user with ease of access to various part of the application.

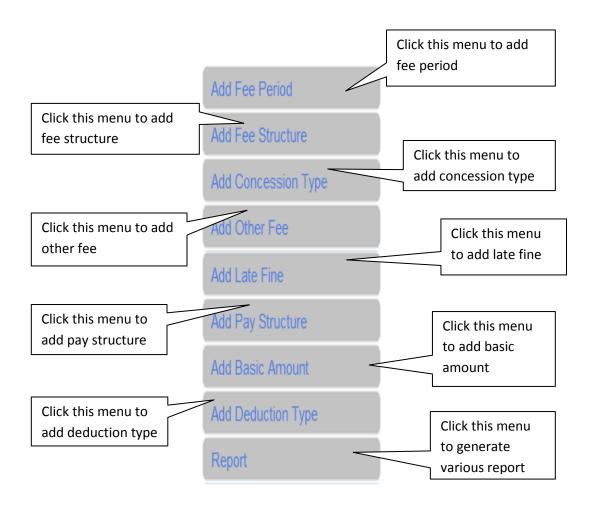
Menu explanation describes the various menus used in the system. Different menus

are as follows.

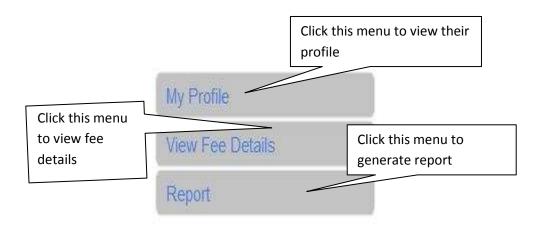


Base on type of user login in to the system these are the menu for different of user.

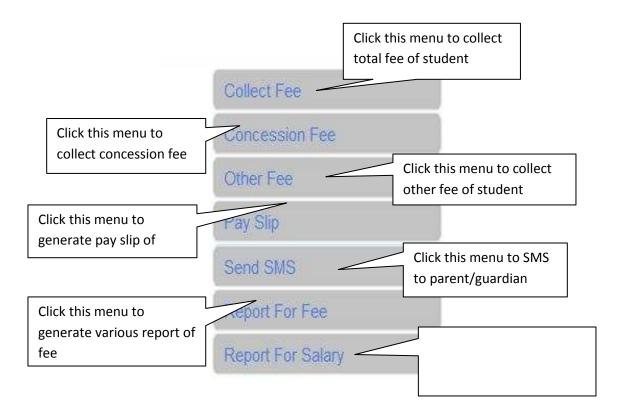
## **Menu for Admin**



## **Menu for User**



#### **Menu for Accountant**



#### 4.3 Program Specification/Flow Chart

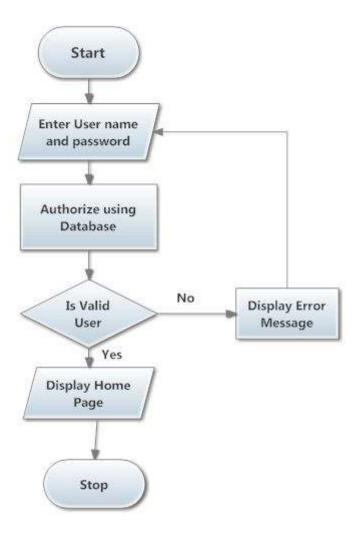
The system is developed in JAVA and use JSP as frontend and MYSQL as backend.

Following are the program specification used in the development process explained with the help of flowcharts.

User Authentication (Login)

Module Name	,	Authentication and Authorization			
Program Nam	ne	Login to the System			
Purpose		Check Authentication of User			
Event		Click on "Login"Button			
Input	Constraint	Description			
Login Details	The required	Login details gets checked against			
(Emails and	fields must not	Database			
Password)	be null and				
	input data				
	should be				
	Valid.				
Change	Must enter	User can change the password his			
Password	correct	or her current password to new			
	password and	password.			
	also new				
	password twice				
	for verification.				
Output	_	s gets checked against database			
		hentication of user & user gets			
	Notification mes	sage of successfully login			

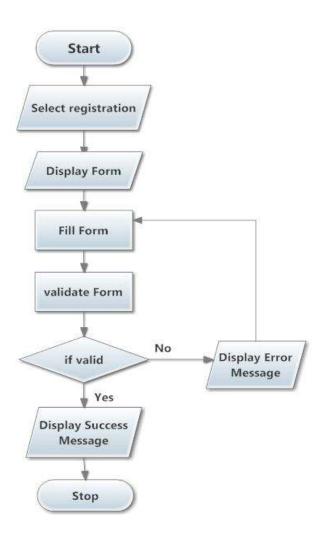
#### **Flow Chart**



# Parent/Guardian Registration

Module Na	Fee Module				
Program N	ame	Add Parent/Guardian Details			
Purpose		Add Parent/Guardian Details in database			
Event		Click on "Submit"Button			
Input	Constraint	Description			
Parent Details	The required fields must not be null and input data should be Valid.	Parent details gets stored into Database			
Output	To check the aut	s gets checked against database hentication of user & user gets sage of successfully login			

#### **Flow Chart**



# **DRAWBACKS**

&

**LIMITATIONS** 

## **Drawbacks & Limitations**

- 1) This system is developed for specific account department only.
- 2) Online Payment is not done.
- 3) Parent cannot pay fee of their child online .They are supposed to come school to pay the fee.
- 4) Payroll module is describe briefly.

# PROPOSED ENHANCEMENT

#### **Proposed Enhancement**

User requirements keep changing as the system is being used.

Some of the future enhancements that can be done to this system are:-

As the technology emerges, it is possible o upgrade the system and can be adaptable to desired environment.-Because it is based on object-oriented design, any further changes can be easily adaptable.-Based on the future security issues, and security can be improved using emerging technologies.

Payroll module can be enhanced.



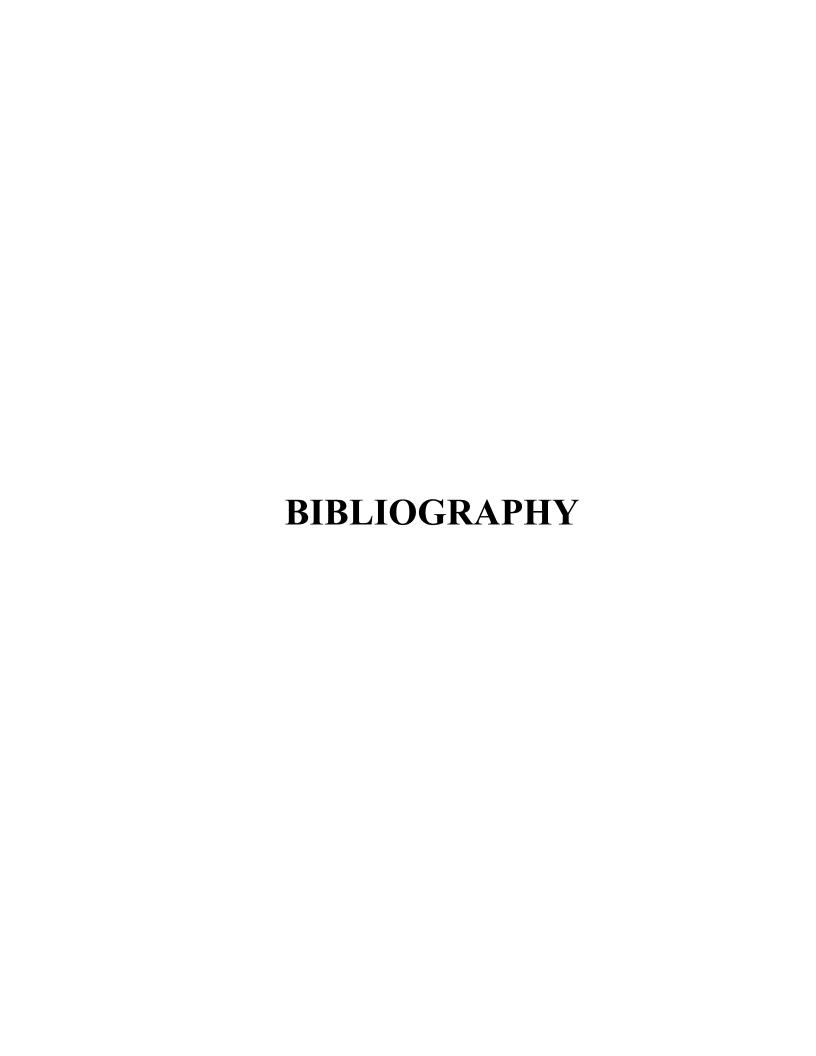
#### **Conclusions**

Towards the ends of the project, I would like to say that the target ,which was initially set up, is achieved to a good extent.

The project made me realize the significance of developing software, where the sole aim is to learn.

During the project, the real important for following all principles of System Analysis and Design dawned on me. I felt the necessity of going through the several stages, because only such a process could make one understand the problem in handling the enormous size of data and their manipulations.

Finally I can conclude that this system will eliminate the existing system's drawbacks and limitations to maximum extent and provide the user with a product of high quality, standards and excellence.



# **Bibliography**

Books:
The Complete Reference J2EE.
JSP Complete Reference.
Java Server Programming J2EE 1.4 Edition
MS SQL Server by Dusanpetkovic
Learning UML
URLs:
www.sun.java.com
www.google.com



#### **ANNEXURE 1: USER INTERFACE SCREENS**

# **Home Page**



## **User Registration Page**



# Login Screen



# **Change Password**



# **Forgot Password**



#### Admin

#### **View Fee Period**



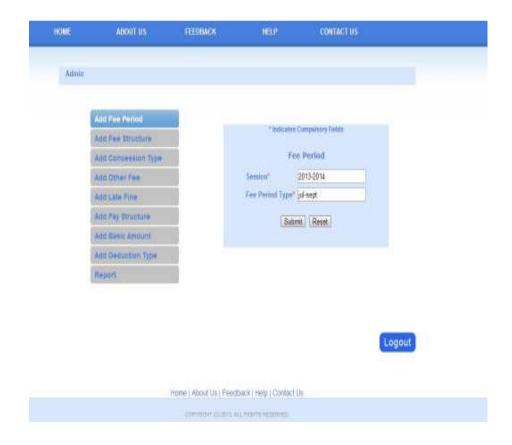
#### **Add Fee Period**



# **Update Fee Period**



# **Update Fee Period**



#### **View Fee Structure**



## **Add Fee Structure**

AAA						
	Sale Facilitation		- 4	tonitime	my risets	
	AND THE DESIGNATION			the Struc	lien.	
	And december 700		January .			
	SEE CONFESS		Own'	11	F	
	Administrati		Free Makeline	Specialis.	ty Fee	
	And the History		About	1,000		
	SHARE SHIPS			Aana	aser)	
	Audament his					
	Name					
		Commercial State	an amile ye	december 1		
				4000		

# **Update Fee Structure**



# **Update Fee Structure**

Admi				
	Add Fee Period	*10	dicates Competency Feet	
	Add Fee Structure	Fe	ee Structure Details	
	Add Concession Type	Seeding*	2013-2014	
	Add Other Fee	Class*	0 💌	
	Add Late Fine	Fee Structur	a Type" Computer Fee	
	Add Pay Structure	Amount*	1000	
	Add Basic Amount	i d	Update Reset	
	Add Deduction Type		Colombia Colombi	
	Report			
	SAMPLE .			

# **Concession Fee Type**



# **Other Fee Type**



## **Add Late Fine**

Admin				
	Add Fee Pends Add Fee Structure Add Concession Type Add Cate Fine Add Late Fine Add Pay Structure Add Deduction Type Report	Sossion* Late Fine Date Amount*	atic Computary Fields  2013-2014  * 04/16/2013  100  Submit   Rasat	

# **Add Pay Structure**



## **Add Basic Amount**

Add Deduction Type Report	AND ADDRESS OF THE PARTY OF THE	Designation* Teacher  Grade* Barier  Besic* 20000  Pay Grade* 7000  Submit Reset
All Deduction Type	Add Basic Amount And Deduction Type	

# **Add Deduction Type**

		1011.01001		and the materials
Admin				
		2		
	Add Fee Period			
	Add Fee Structure		Theticane	s Computatory Fielita
	Add Concession Type		Pay	Structure
	Add Other Fee		Deduction Type*	Professional Tax
	Add Late Fine		Amount / (In %)*	
	Add Pay Structure	ii i		
	Add Basis Amount	i l	Sub	mit Reset
	Add Deduction Type			
	Report			
		-		
	-		Who was a sure of the sure of	=
	1		ion Type   Amount / Im ional Tax   200	(5)
	i.	Promes	unai ras 200	
		Submi	Reset	

#### Accountant

#### **Fee Collect**



#### **Fee Collect**

Personal Information	1					
itudent Name Restu		Classill		Section A		
Fee Period arp-un		Pay Date 04/12/2013		Status Not Paid		
Last Fee Date 04	16/2013	Previous Amount 70	000	Concussion Amos	10%	
Foe Details						
		Fee Type	Amount			
		Admission Fee Computer Fee	4000 1000			
		Total Amount	5000			
		Late Fine Amount	0			
		Concession Amount	500			
		Amount To Pay	4500			
Payment Details						
Pay Mod	to W Cash © DD		Aitoo	4500		
DD No.	DD Date	DD Amount	1 56	lank Namo	Branch Name	

#### **Concession Fee**



### **Other Fee**

Accou	ntant						
			* Indicates Compulsory Fields				
		200		r Fee Details	10 11		
	Collectifee	Pay Da	Number Al	497/7047	Search		
	Concession Fee	100000		4/12/2013 Computer Fee 🗼			
	Other Fee	Amoun		000			
	Pay Slip	i save	1	othing	10		
	Sand SMS	Remar					
	Report For Fee						
	Report For Salary			ON THE PARTY OF TH			
		-	Subs	mit Reset			

Logout

# Pay Slip



## **Pay Slip**



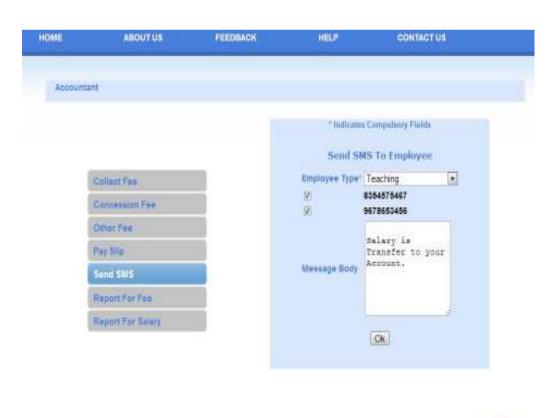
#### **Send SMS**



### **Send SMS To Parent**

	* Sodicute	rs Compulsory Fields	
	Send SMS To Parent		
Collect?ee	Class*	1	
Concession Fee	<u>/</u> 1	8928343775 9430082238	
Other Fee	100		
Pay Slip		Last Date Of Pee Submission is	
Send 5MS	Message Body	16/04/2013	
Report For Fee			
Report For Salary		le-sell	
		Ok	

## Send SMS To Employee



Logout

#### User

#### **View Profile**



# **Update Profile**



#### **View Fee Structure**

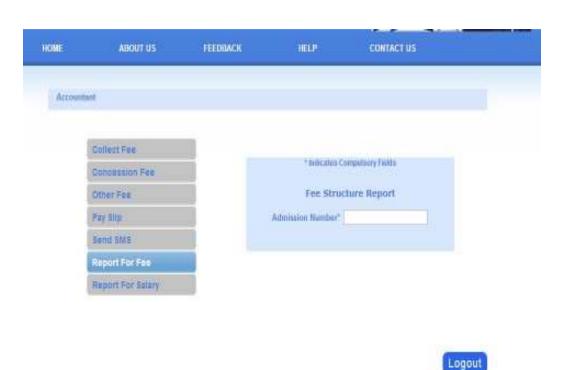


#### **View Fee Structure Details**



### **ANNEXURE: 2 OUTPUT REPORTS WITH DATA**

## **Report on Fee Structure**



# **Fee Details of Student Report**





# **Fee Pending Report**



#### **Date wise Fee Details**



## **Report On Payroll**

## **Monthly Salary of Employee**



# **Yearly Salary of Employee**



#### **ANNEXURE:3 SAMPLE CODE**

#### Sample code for pay other fee

```
<%@ page language="java" contentType="text/html; charset=ISO-
8859-1"pageEncoding="ISO-8859-1"import="Bean.Fee.*"
import="java.sql.*" import="connections.*"%>
<!DOCTYPE
              html PUBLIC
                                 "-//W3C//DTD
                                                   HTML
                                                             4.01
Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-</pre>
8859-1">
<title>Other Fee</title>
               language="javaScript"
                                             type="text/javascript"
<script
src="JavaScriptFile\calendar.js"></script>
               language="javaScript"
<script
                                             type="text/javascript"
src="JavaScriptFile\feevalidation.js"></script>
link href="CssFile\calendar.css" rel="stylesheet" type="text/css">
<script language="javascript">
var timeout = 500;
varclosetimer = 0;
varddmenuitem
                   = 0:
// open hidden layer
functionmopen(id)
      // cancel close timer
      mcancelclosetime();
      // close old layer
      if(ddmenuitem) ddmenuitem.style.visibility = 'hidden';
      // get new layer and show it
```

```
ddmenuitem = document.getElementById(id);
      ddmenuitem.style.visibility = 'visible';
// close showed layer
functionmclose()
      if(ddmenuitem) ddmenuitem.style.visibility = 'hidden';
// go close timer
functionmclosetime()
      closetimer = window.setTimeout(mclose, timeout);
// cancel close timer
functionmcancelclosetime()
      if(closetimer)
             window.clearTimeout(closetimer);
             closetimer = null;
// close layer when click-out
document.onclick = mclose;
</script>
<link rel="stylesheet" type="text/css" href="CssFile/menu.css" />
                    rel="stylesheet"
                                                    type="text/css"
href="CssFile/menuCssCode.css" />
</head>
< \frac{0}{0}
FeeLabelfeeLabelBean=new FeeLabel();
String admissionNo=feeLabelBean.getLblAdmissionId();
String payDate=feeLabelBean.getLblPayDate();
String selectFee=feeLabelBean.getLblSelectOtherFeeType();
```

```
String amount=feeLabelBean.getLblAmount();
String remark=feeLabelBean.getLblRemark();
String regClass=feeLabelBean.getLblClass();
String section=feeLabelBean.getLblSection();
%>
<body>
<!--logo start here========>>
    <div>
             <a
href="HomePage.jsp"><imgsrc="images/logo.png"></a>
    </div>
<!--logo end here========>>
<!--menu start here========>>
<div align="justify" id="menuhead">
             <u1>
                              id="menu logout"><a
                  li
href="HomePage.jsp" >Logout</a>
             <!--menu end here=======--->
->
<div >
WELCOME TO ACCOUNTANT
```

```
</div>
<!--
                                                     of
                           end
Title=
<%
String enquiry = (String)request.getAttribute("Finalmessage");
     // System.out.println("hi"+message);
     if( enquiry != null) {
%>
<tont
color="red"><b><%=enquiry%></b></font>
     <% request.removeAttribute("Finalmessage");</pre>
     }//end of if( message != null)
%>
<!--
                                   of
                                                   main
                 start
body=
<br/>br><br/>>
< div>
                      cellpadding="5" CELLSPACING="5"
<table
         align="center"
height=600 width=960>
>
<div id="menu4">
                <ul>
                      <!-- CSS Tabs -->
<a href="EditStudent.jsp">Collect Fee</a>
<1i><a
           href="ConcessionAmountPerStudent.jsp">Concession
Fee</a>
<a id="current" href="OtherFeeType.jsp">Other Fee</a>
<a href="FeeReport.jsp">Report</a>
```

```
class="body heading">Concession
                                                  Fee<hr
color="#696969">
<div class="note_field">Note: Filled mark with (<span>*</span>)
denotes mandatory field</div>
<form
            name="formOtherFeeType"
                                             onSubmit="return
formValidationOtherrFee(this)">
<table
       align="center"
                            cellpadding
                                             "10"
                                                   border="0"
width="490">
<td
      class="parent infoleft lable"><%=admissionNo
                                                     %><font
color="red">*</font>
<%
                        String regClass1 = "";
                        String section1 = "";
                        String admNo = "";
                        String admissionNumber="";
                        try {
                              Connection con = null;
                              ResultSetrs = null;
      Connections.ConnectionFunctionconnectionFunctionObj
null;
                              connectionFunctionObj
Connections.ConnectionFunction();
                                                 (Connection)
                              con
connectionFunctionObj.connectionFunction();
```

```
CallableStatementcalbstmt = null;
                                  ResultSet rs1 = null;
                                  calbstmt = con
                                                .prepareCall("{call
selectAdmissionNumberForReportProcedure(?)}");
                                  calbstmt.setString(1,
request.getParameter("txtAdmissionId"));
      admissionNumber=request.getParameter("txtAdmissionId");
                                  rs = calbstmt.executeQuery();
                                  if (!rs.next()) {
                                        System.out.println("not
found admission");
                                  } else {
                                         admNo = rs.getString(1);
                                         CallableStatement
calbstmt1 = null;
                                         calbstmt1 = con
      .prepareCall("{call
selectClassAndSectionInformationProcedure(?)}");
                                        calbstmt1.setString(1,
admissionNumber);
                                         rs1
calbstmt1.executeQuery();
                                         if (!rs1.next()) {
      System.out.println("not found");
                                         } else {
                                               regClass1
rs1.getString(1);
                                               section1
rs1.getString(2);
                                         }
```

```
} catch (Exception e) {
                          e.printStackTrace();
<input type="text" name="txtAdmissionId"
                                       maxlength="10"
class="student record left box">
<input
           type="submit"
                         name="search"
                                        value="Search"
class="change btn2">
</form>
<hr color="#696969">
<br>
                              name="formOtherFeeType"
<form
action="OtherFeeTypeDetailServlet"
                                       method="POST"
onSubmit="return formValidationOtherFeee(this)">
<table
      align="center"
                        cellpadding
                                  = "10" border="0"
width="400">
<%=regClass %>
<input type="text" name="txtClass" value="<%=regClass1%>"
class="student record left box" maxlength="10">
<%=section%>
                  type="text"
<input
                                     name="txtSection"
value="<%=section1%>"
                           class="student record left box"
maxlength="10">
<td
       class="parent infoleft lable"><%=
                                       payDate%><font
color="red">*</font>
```

```
<input
                    type="text"
                                         name="datum1"
class="student record left box"
                                                href="#"
                                   ><a
onClick="setYears(1990, 2050); showCalender(this, 'datum1');">
<imgsrc="Image\calender.png"></a>
<!--CalenderScript -->
>
<select
onChange="showCalenderBody(createCalender(document.getEleme
ntById('selectYear').value,
     this.selectedIndex, false));" id="selectMonth">
     <option value="0">Jan</option>
     <option value="1">Feb</option>
     <option value="2">Mar</option>
     <option value="3">Apr</option>
     <option value="4">May</option>
     <option value="5">Jun</option>
     <option value="6">Jul</option>
     <option value="7">Aug</option>
     <option value="8">Sep</option>
     <option value="9">Oct</option>
     <option value="10">Nov</option>
     <option value="11">Dec</option>
     </select>
<select
onChange="showCalenderBody(createCalender(this.value,
```

```
document.getElementById('selectMonth').selectedIndex,
false));" id="selectYear">
                  </select>
              <a href="#" onClick="closeCalender();"><font
color="#003333" size="+1">X</font></a>
              SunMonTueWedThu</
td>FriSat
<td
      class="parent infoleft lable"><%=
                                  selectFee%><font
color="red">*</font>
<select
                            name="cmbOtherFeeType"
class="add infoleft_select2" >
<option value="">Select </option>
< \frac{0}{0}
    String otherFeeType=null;
Connection con = null;
ResultSetrs = null;
CallableStatementcalbstmt = null;
Connections.ConnectionFunctionconnectionFunctionObj=new
Connections.ConnectionFunction();
try
```

```
con=connectionFunctionObj.connectionFunction();
     calbstmt
                                     con.prepareCall("{call
selectOtherFeeTypeProcedure()}");
rs=calbstmt.executeQuery();
if(rs.next())
    {
     do
           otherFeeType= rs.getString(1);
 %>
           <option><%=otherFeeType %></option>
while (rs.next());
catch(Exception e1)
     e1.printStackTrace();
 }
%>
</select>
class="parent_infoleft_lable"><%=amount
<td
                                                %><font
color="red">*</font>
           type="text"
                       name="txtAmount"
                                          maxlength="20"
<input
class="student record left box"/>
>
<%= remark%>
```

```
<textarea
               name="txtRemark"
                                   cols="25"
                                               rows="5"
class="new add textarea">
</textarea>
<center>
         type="submit"
                         name="submit"
                                          value="Submit"
<input
class="change_btn2"/>
                type="hidden"
<input
                                      name="hidAdmNO"
value="<%=admissionNumber%>"/>
</center>
</form>
</div>
<!--
                 end
                                   of
                                                   main
body==
<!--
                                                     of
                          start
footer=
<div id="footer">
           Copyright (c) 2013. All rights reserved.
     </div>
<!--
                          end
                                                     of
footer=
</body>
</html>
```