PROJECT REPORT ON

HOSTEL MANAGEMENT SYSTEM

BY

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(MCM SEM-4 1010)

ACKNOWLEDGEMENT

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

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Rasika Joshi

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Chapter 1

INTRODUCTION

1.1 Company Profile

Intellection Software & Technologies Pvt. Ltd. Is a software development company at the core . The Company began the operations in the niche area of CAD-CAM and image processing based algorithmic software development and gradually diversified into developing web-based and mobile-based applications.

The Company work closely with their clients to make sure that company understand their software application requirements and their core business in order to provide them a befitting solution within the stipulated time and budget.

Company have a highly motivated team of graduates, post-graduates and doctorates in mechanical engineering and computer sciences. They regularly train their team and keep them updated with latest trends in technologies. Company also help them develop their skill-set to provide solutions based on cutting edge technologies. As a result, They pride ourselves on deploying a loyal, committed staff of the highest talent and integrity.

We at Intellection believe in giving something beyond the clients' specifications in every product. Innovating and finding out-of-the-box solutions is our key strategy in doing so. Our clients can rely on Intellection for all their information-technology based needs, while they can concentrate on their core businesses.

Mobile Application Development:

We develop applications based on I phone / I Pad, Android and Windows platforms in the following steps:

1.Interface design

2.Designing entire architecture on client and server-side components

3. Implementation and testing during the development and finally at system-level

CAD/CAM and image processing based application development:

We have provided highly algorithmic and technology driven solutions to complex problems in various CAD/CAM fields such as MidSurface Generation, Polygonal Model Processing and 2D Sketcher Development. We have thorough hands-on talent and programming expertise of CAD kernels such as ACIS and Parasolid. We have designed and developed vision systems for the inspection of sheet metal components using highly innovative approach.

We have complete understanding and extensive experience in Software Development Life Cycle (SDLC). We follow the object-oriented approach for design and development of software solutions and emphasize on efficient project management. We provide a single point contact for each project who remains in touch with our client throughout the development period updating him/her during the various stages of development. We follow the industry's best practices for code and documentation delivery along with quality assurance for allour clients projects.

1.2 Existing System and Need for System

Existing System

Existing system is based on manual work and all the processes are done manually. So they maintain excel sheets or somewhere use registers for recording the information.

Separate excel sheets are maintained for recording entry of daily transaction.

Room data and facility data and charges are maintained in separate excel sheets.

So, the existing system is manual system**.** When student comes for admission in hostel, admin checks where student is from same college or not from college database manually.

Then student fills registration form and gives to admin.Admin now tells student about the room availability by checking into excel sheet having room data. Then student selects the room.

Student selects facilities for him. The total charges of room and facilities are calculated by admin manually. This calculation is very tedious job. Then student selects payment type and mode and does payment. All these changes are updated back in excel sheets.

After payment receipt is given to student.

Admin makes changes to the excel sheet.

Admin marks absentee for each student manually by recording details in excel sheet.

This is totally manual system so it provides very less security for saving data. Some data may be lost due to mismanagement. Searching of particular data is very critical and takes a lot of time. It is not user friendly.

Need for the System

Considering the existing system, the basic need of the system to make it automated.

The entire process should be automated and user friendly.

The system should be flexible.

Searching record of student from college database should be easy and fast.

Basically, the payment calculation considering room and facility charges according to duration of facilities, payment modes, advance payments must be easy and correct.

Attendance maintenance by admin should not be tedious.

1.3 Scope Of work

Student Registration

- Checking whether student belongs to same college.
- Student is given registration form.
- Student will submit the form and information is stored in database.

Room Selection

- Student has to give information of required room.
- Information matching to require room details will be provided.
- Student has to select one room.
- Student has to pay some advance amount.

Facility Selection

- Student has to select facilities like gym, library, and mess and duration of facilities.
- According to selected facilities and duration charges will be given.

Payment

- Total payment charges of rooms and selected facilities are given.
- Student has to select one payment type(full payment/installments)
- Student has to select one payment mode.
- According to the mode, payment is done.
- Student admission is confirmed.

Attendance Maintenance

- Admin person marks student absentee according to room type.
- Maintains attendance database.

Cancellation

- Student cancels his admission
- According to date of cancellation, payment is calculated. If student have paid in advance, refund will be given to him.

Report generation

- Yearly report of admissions taken.
- Monthly attendance report.
- Room type wise reports.
- Payment due reports.
- Installment wise receipt generation.
- Room availability status report.
- Admission confirmation receipt generation

1.4 Operating Environment – Hardware and Software

The following section describes the operating environment of the software. It lists out different configuration needed for functioning of the system.

Hardware Requirement

- Minimum 2 GHz processor or Pentium – IV Processor
- Minimum 512 MB RAM recommended
- Minimum hard disk installable size is 8 GB

Software Requirements

a) Operating System:

- Microsoft windows XP or
- Microsoft windows 2007 or
- A web browser such as Mozilla Firefox

b) Development Environment:

- .Net framework 2.0 or above
- Web server that supports ASP.net (Such as Microsoft IIS)
- **Front End:** Microsoft Visual Studio. NET 2008 using c# and ASP.net 3.5 or 4.0
- **Back End:** MYSQL server 2005

Chapter 2

PROPOSED SYSTEM

2.1 Proposed System

The manual system needs to be computerized to overcome the problems affecting existing manual system.Computerising the existing system with the help of some programming language, database package ease the system up to the great extent. Generally there has been a criterion to work on any task for a specific purpose. Thus any transaction can be performed either student registration, payment calculation in a computerized system, the first screen of the system will be a welcome message and list of menus. These menus contains specific options like, registration,room selection etc.Routine processes/transactions are performed using these menus. After transaction is completed, the user can log out from the system by simply quitting from the system.

The proposed system is a standalone system.Admin is the only user of system.Admin handles the whole system. So for the flexibility of user the interface has been developed user friendly.

Modules of Proposed System-

1. Admin Login

2. Student Registration

3. Room Selection

4. Facility Selection

5. Payment

6. Attendance

7. Report Generation

Admin Login

The user enters into the system using login page. The login page will restrict the unauthorized user. The user must provide his credentials like username and password. For that system maintains data for admin username and password in the database. Whenever a user enters his username and password, it checks in the database for valid username and password. If valid then system will show home page, Otherwise the request will throw back and again login page will be shown.

Student Registration

Student can get admission in hostel only if he has taken admission in the same college. When student enquires for admission in hostel, he has to give his name, course name, admission id.This data is checked in the college admission database and confirmation is done that student has taken admission in the same college. If student data not found in database, he cannot take admission in the hostel. If student data found in the database then system provides registration form to student. Student has to fill this form containing his basic information like name ,address,age,parent information etc. When user submits this form, this information is stored in the Student master database.

Room Selection

Here, student has to give his require room details. System shows available rooms according to requirements of student. Student has to select one room from available rooms. Here student have to pay advance payment for room. If room matching to student requirements is not available, system will ask student to enter require room details again.

Facility Selection

No of facilities like Mess, Gym, Library are provided. Student has to select required facilities along with duration. Calculation is done according to each facility and selected duration.

Payment

After room selection and facility selection System will calculate total charges of rooms and facilities. From this amount advance paid amount will be deducted and final payment amount is given to student. System will ask student to select type of payment like full payment or installment. If student selects installments type of payment, system will provide a form with installments details. In the form, details like no of installments amount will be asked. Student has to fill the form and submit it. If student selects full payments type of payment, system will provide a form. Student has to fill the form and submit it. After payment type selection, System will ask student to select mode of payment like cash, cheque, DD. According to student selection, different forms are provided for cash, cheque, DD for information of cash, cheque and DD.By using one of the payment modes, student does payment.

Attendance Maintenance

When student want leaves he has to give leave application to admin.

Admin checks the leave application while marking the absentee.

Here admin marks the absentee, instead of presence because marking presence of every student every day is a tedious job.

Admin person marks absentee of every student. For this, he takes student id, name, and room no from student and marks student absentee according to the room type.

Cancellation

Student can cancel his admission. For cancellation one form will be provided asking student details, room details and date. According to date of cancellation, payment is calculated. If student have paid in advance, refund will be given to him.

So according to cancellation, room availability will be updated in the database.

Report Generation

This is module that generates report. Reports will be generated on periodic base. Some reports are monthly, some are quarterly. Some of the reports are listed below.

Monthly attendance report

Monthly registration report

Half yearly cancellation report

2.2 Objective of the System

Basically objective of system is to make system automated so that it will become more user friendly and easy to use.

In the manual system, searching record of student from college database is very tedious job. Also calculating payment considering room and facility charges according to duration of facilities, payment modes, advance payments etc is very tedious and time consuming job and causes errors in the calculation. This system will ensure correct payment calculation with a great ease.

The main objective of the system is as follows

- Searching record of student from the college database must be easy as compared to manual system.
- It will help to maintain all the information about a particular student with his room, facilities, and payment types.
- Room selection should be very easy as compared to manual system.
- Payment calculation must be simple.
- Attendance maintenance should be simpler than manual system.

2.3 User Requirements

User Requirements for the Hostel Management System are as follows

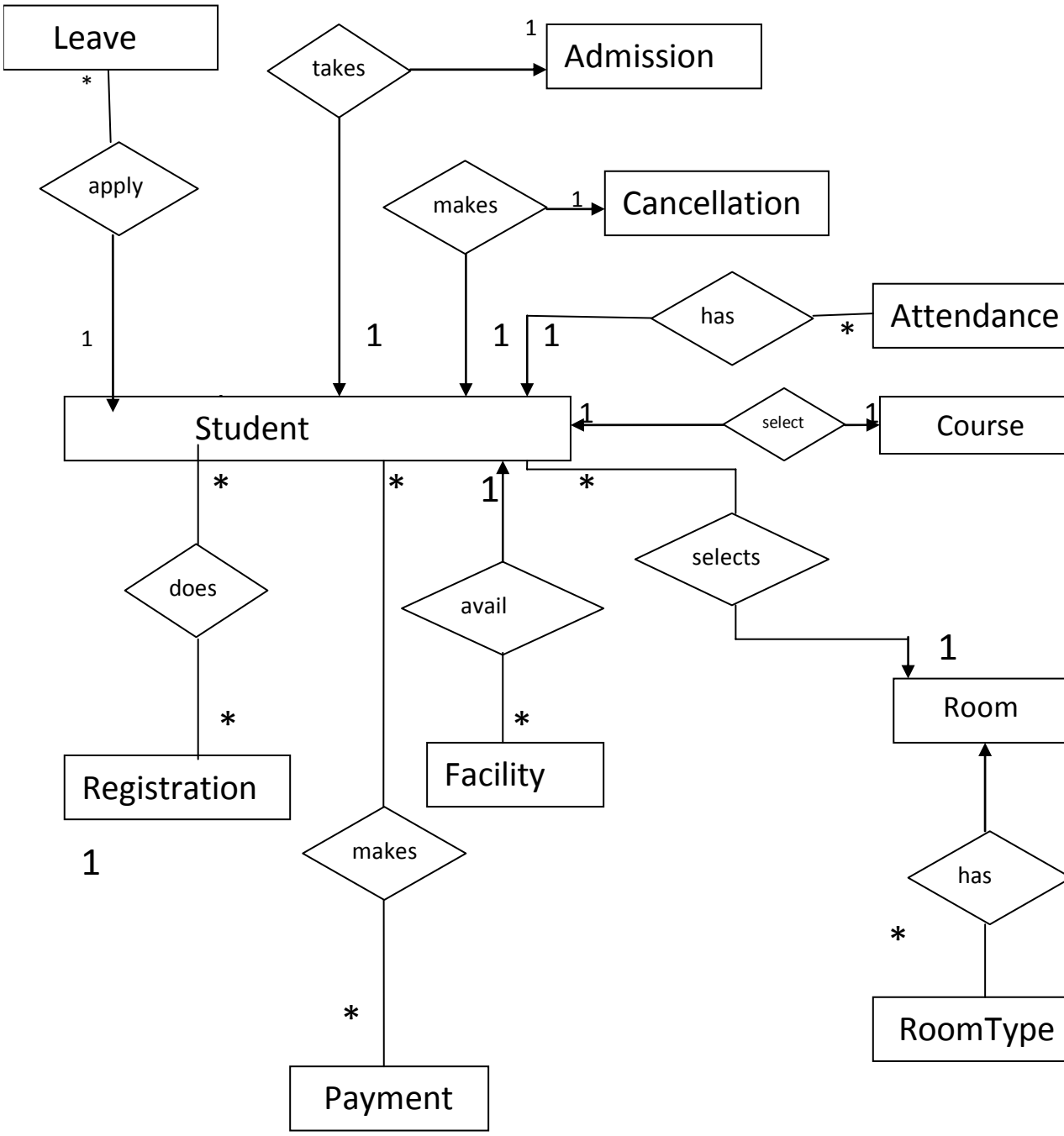
- Checking process of student whether he belongs to same college or not should be easy and fast.
- The information should be secure; there should not be any kind of malfunctioning. All student data, payment details should be stored securely.
- Student must be able to select his require room easily.
- Payment calculation should be fast and accurate without flaws.
- Maintaining attendance should be simple.

- Cancellation process must be accurate and payment calculation at this time should be perfect.
- System should be user friendly, so that less or no training involved in accessing the system.
- System should be reliable. It must be available to use all the time and should produce consistent results all the time.
- It should require minimum manual effort.
- It should be less time consuming.
- The system should be secure and safe by all means.

Chapter 3

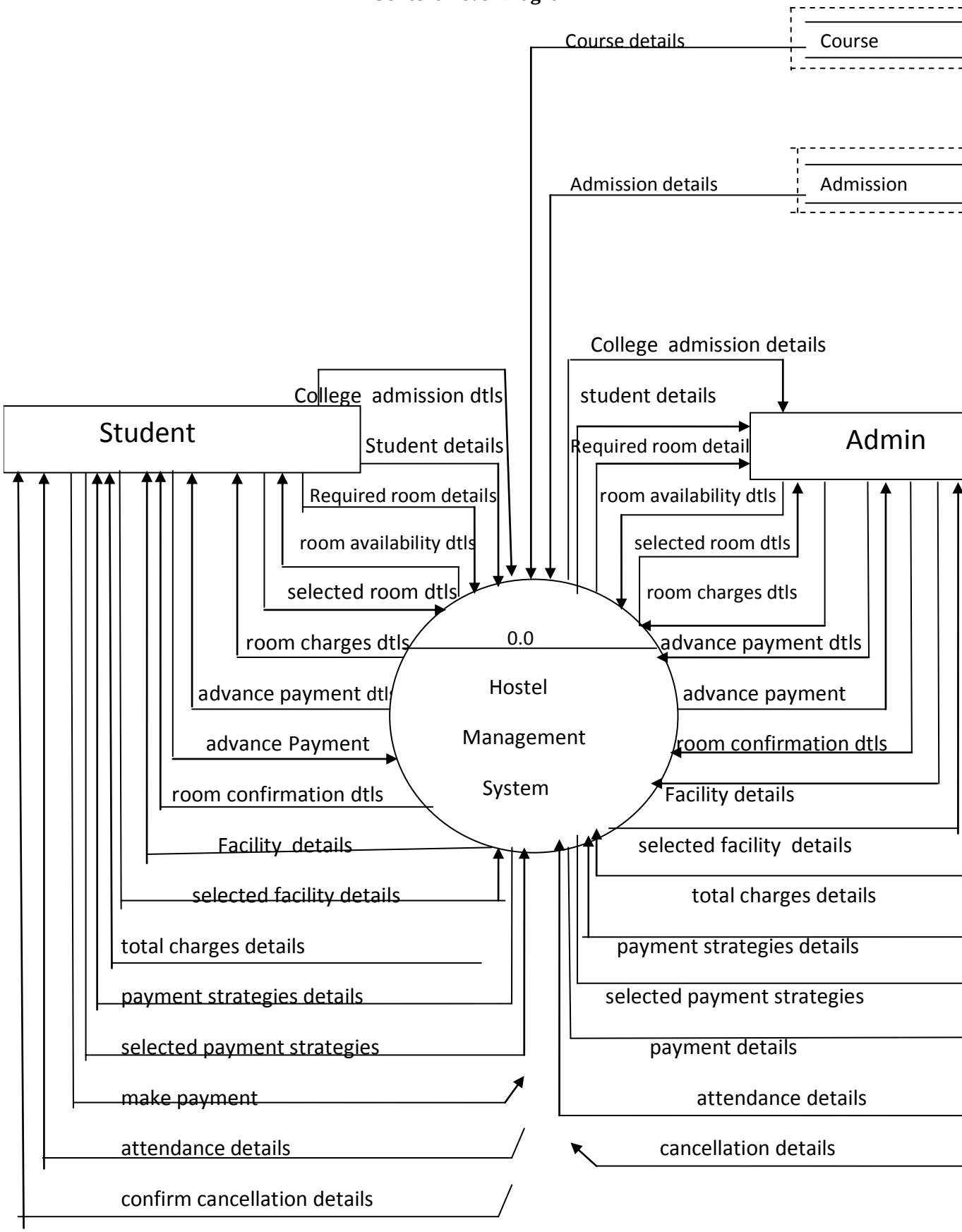
ANALYSIS AND DESIGN

3.1 Entity Relationship Diagram (ERD)

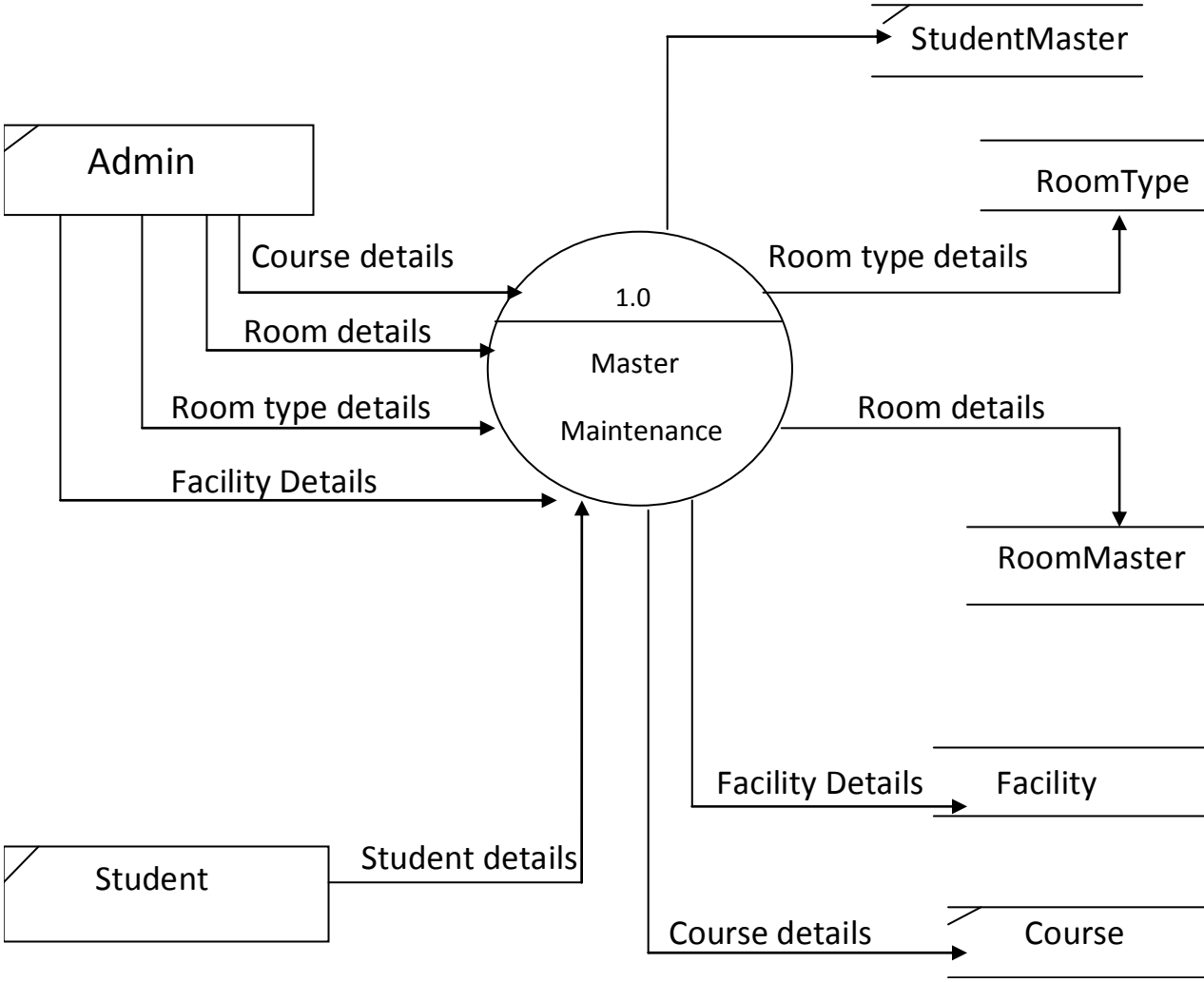


3.2 Data Flow Diagram(DFD)

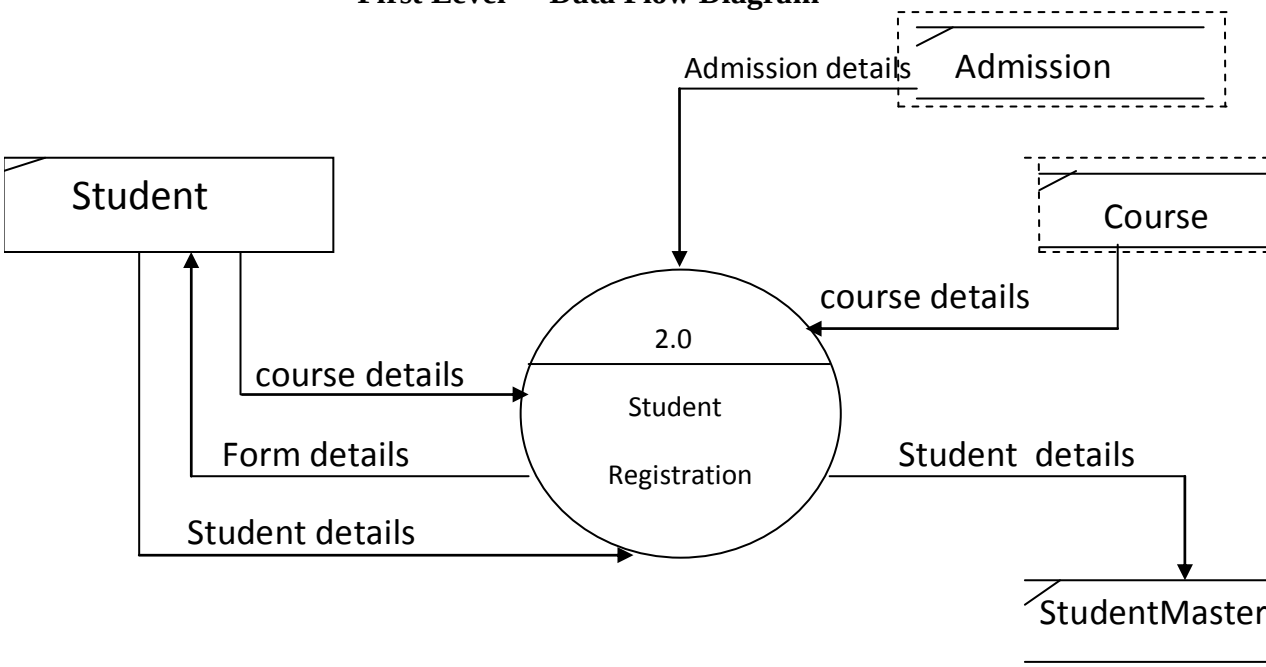
Context Level Diagram



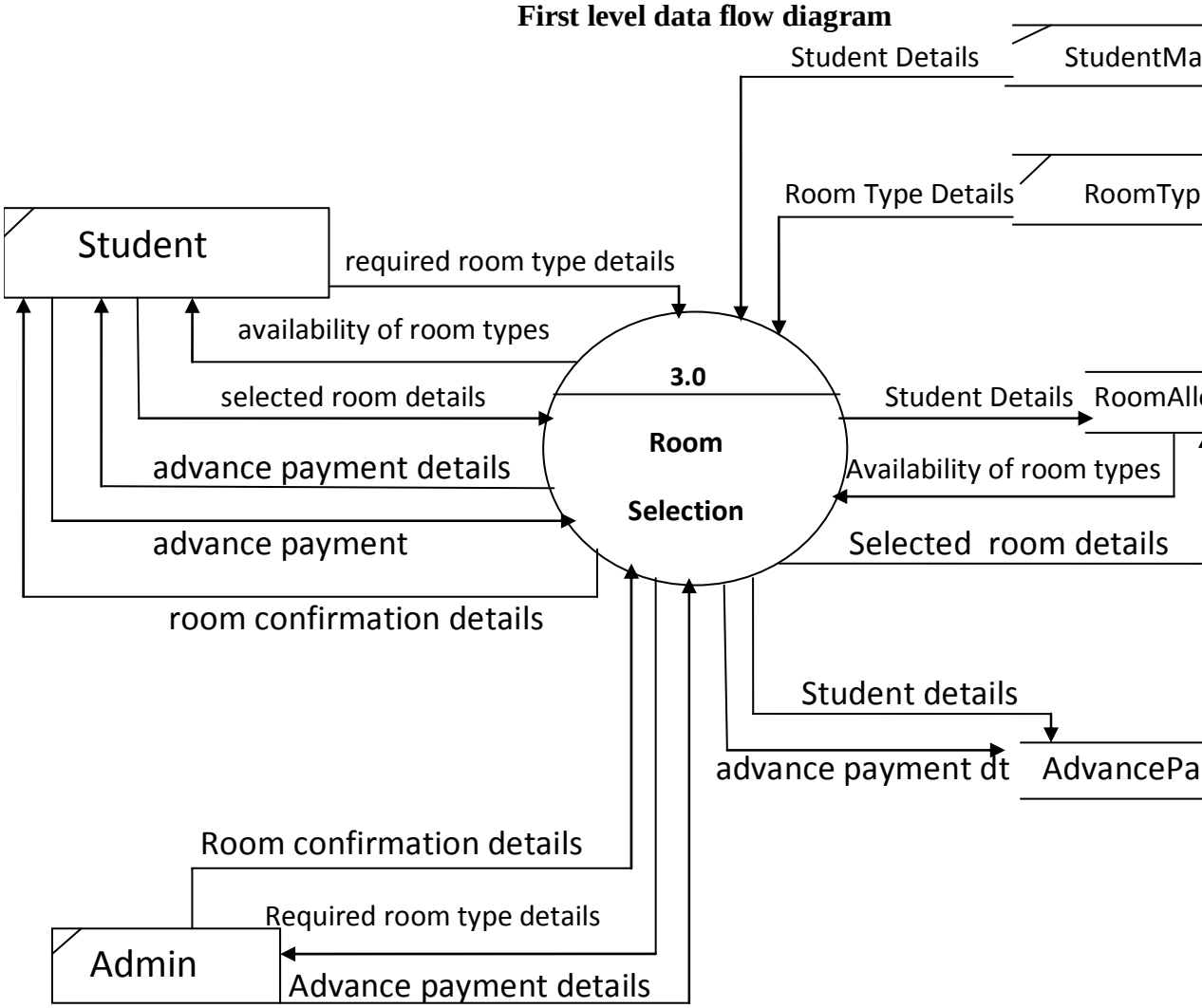
First Level Data Flow Diagram



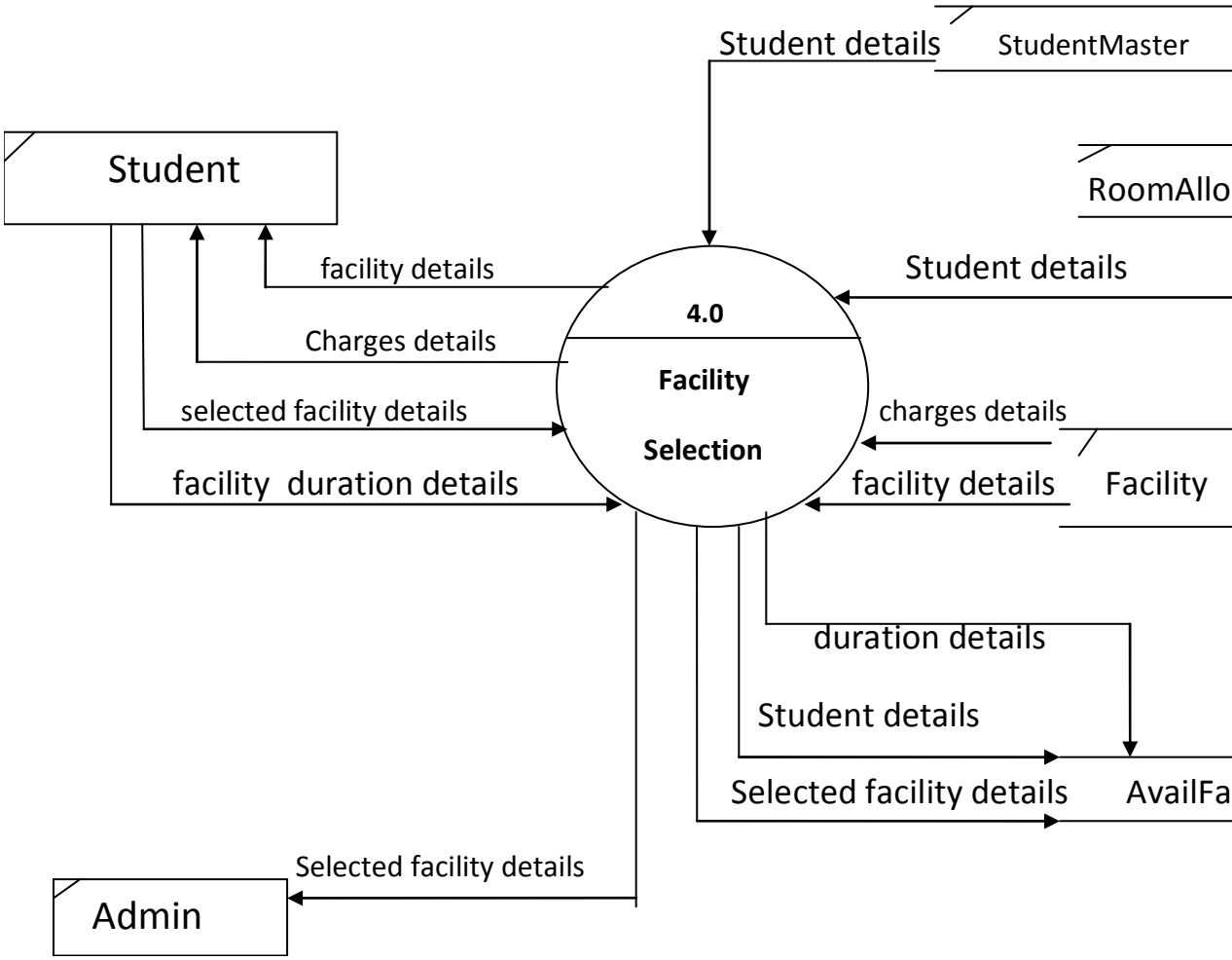
First Level Data Flow Diagram

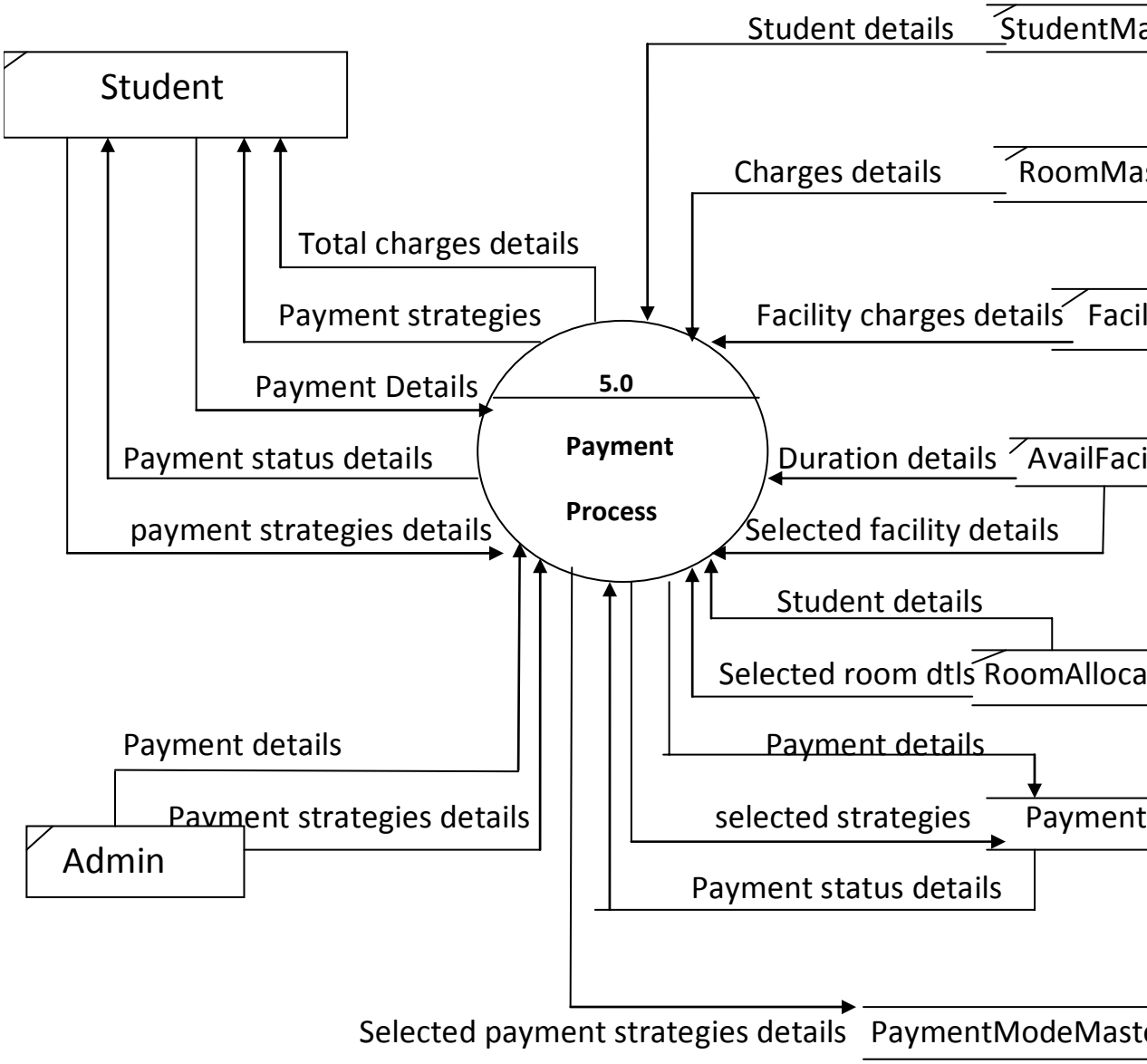


First level data flow diagram

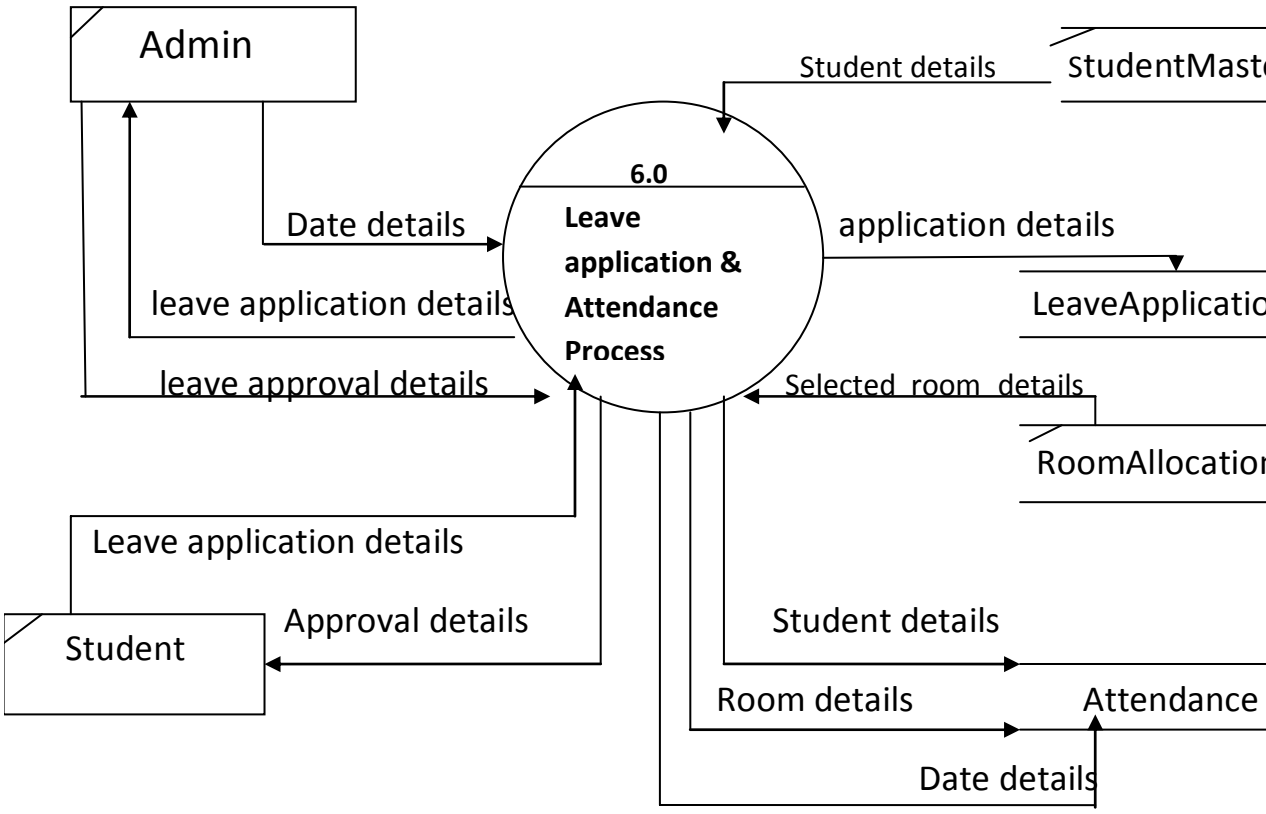


First Level Data Flow Diagram

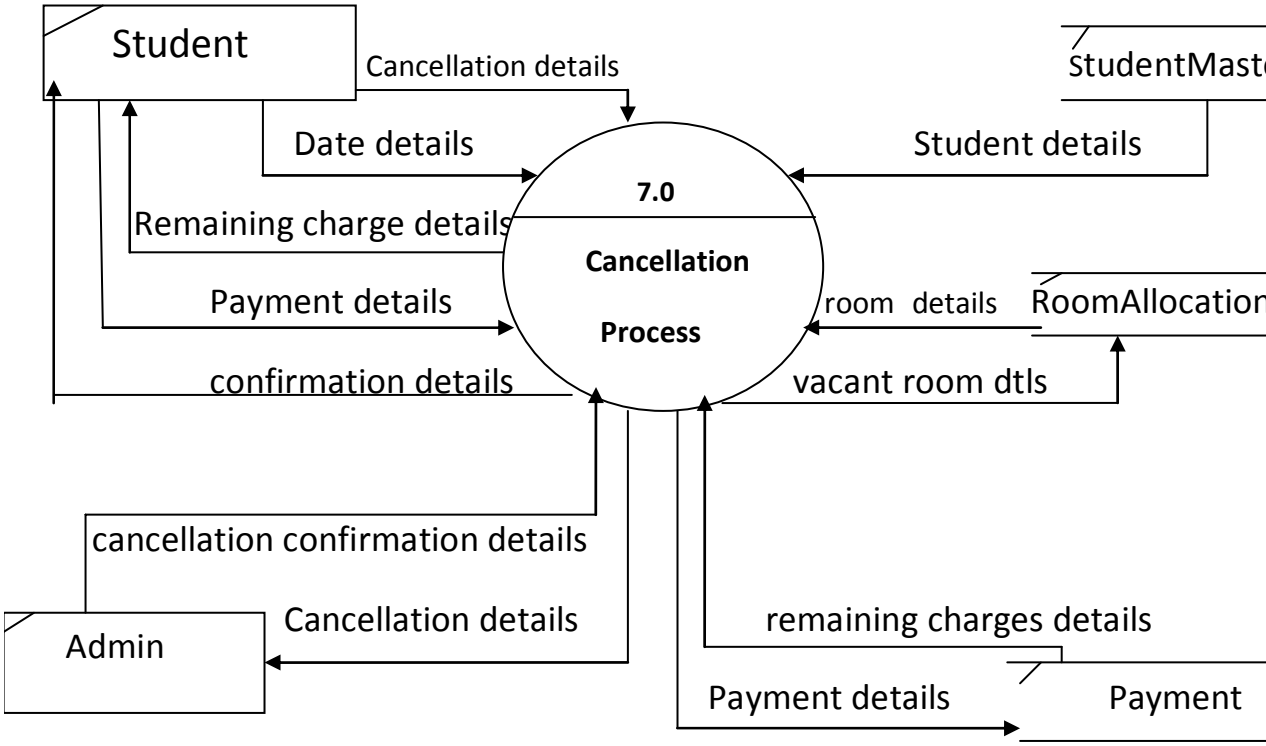



Student
Student details
StudentMa
Charges details
RoomMas
Total charges details
Payment strategies
Facility charges details
Facil
Payment Details
5.0
Payment
Process
Payment status details
Duration details
AvailFaci
payment strategies details
Selected facility details
Student details
Selected room dtls
RoomAlloca
Payment details
Payment details
Payment strategies details
selected strategies
Payment
Admin
Payment status details
Selected payment strategies details
PaymentModeMaste

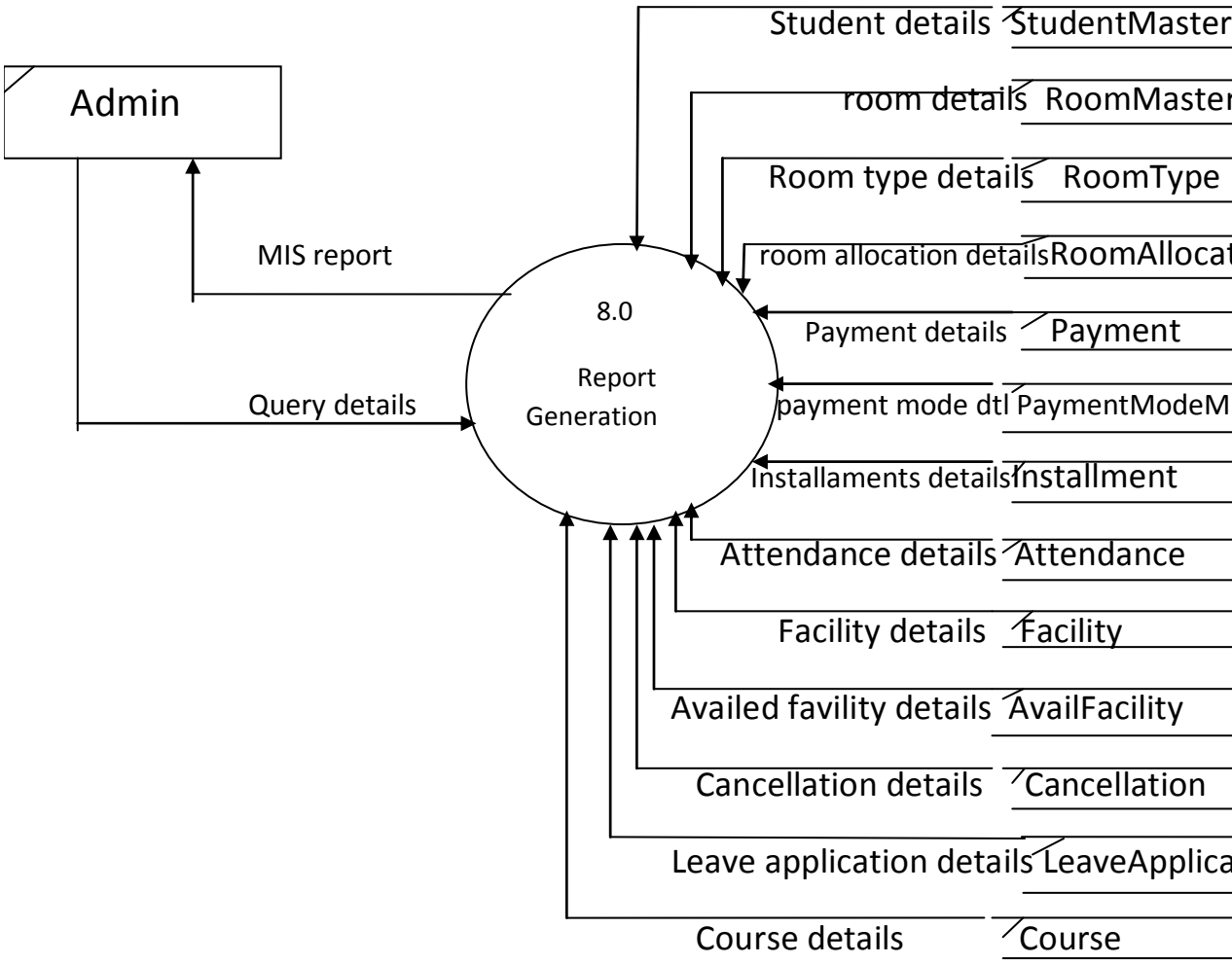
First Level Data Flow Diagram



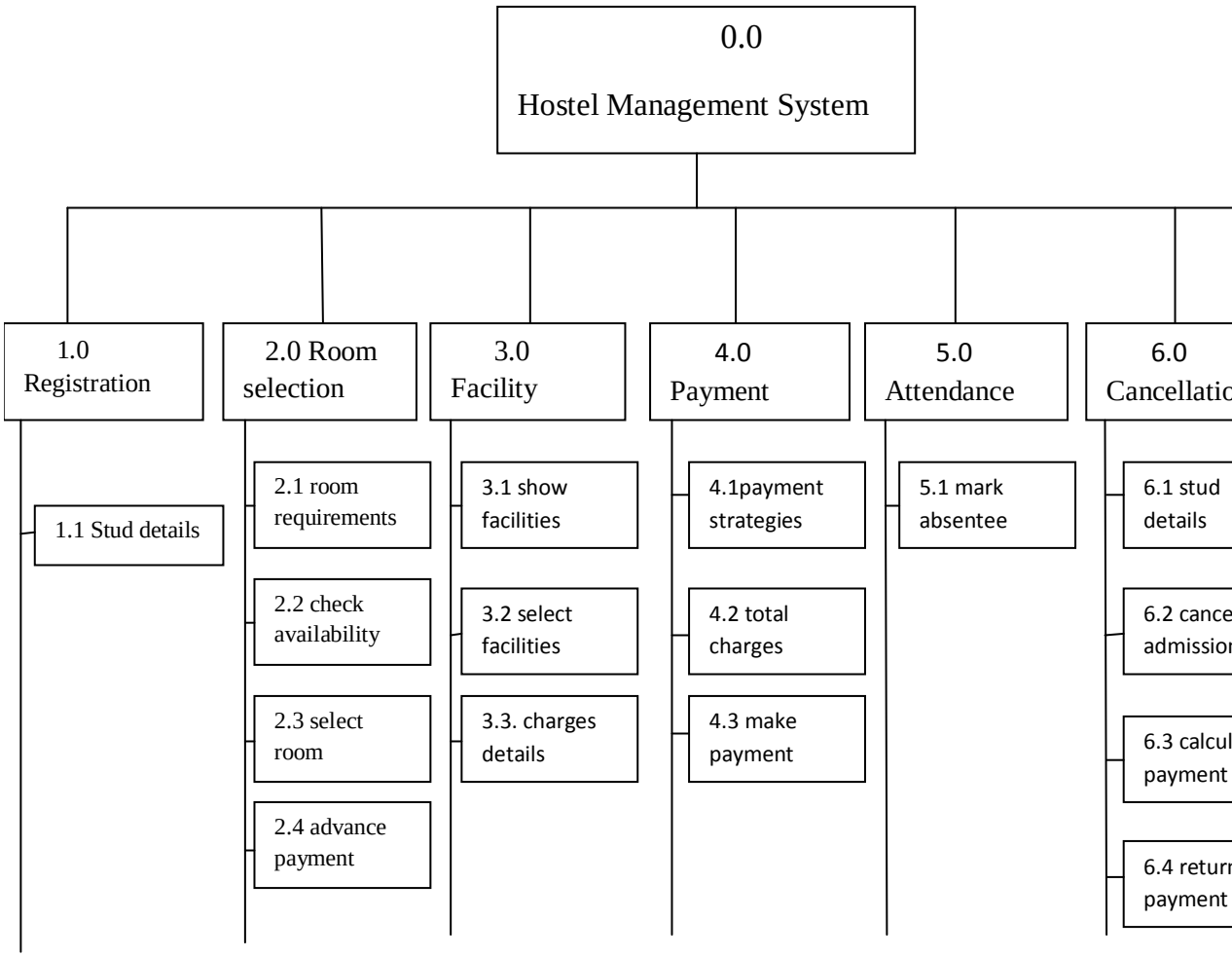
Data Flow Diagram



First Level Data Flow Diagram



3.3 Functional decomposition Diagram (FDD)



3.4 Data Dictionary

Sr No	Field Name	Data Type	Width	Table Name
1	AbsentDate	Date	8	Attendance
2	AdmissionDate	Date	8	Admission
3	AdmissionId	Integer	3	Admission
4	Age	Integer	2	StudentMaster
5	AId	Integer	3	AvailFacility
6	Amount	Integer	5	PaymentModeMaster
7	AttendanceId	Integer	3	Attendance
8	AvailableCapacity	Integer	1	RoomAllocation
9	BankName	Varchar	15	PaymentModeMaster
10	BirthDate	Date	8	StudentMaster
11	Branch	Varchar	15	PaymentModeMaster
12	CancellationId	Integer	3	Cancellation
13	Capacity	Integer	1	RoomMaster
14	Charges	Integer	5	RoomType
15	CollegeName	Varchar	15	StudentMaster
16	ContactNo	Integer	10	StudentMaster
17	CourseId	Integer	3	Course
18	CourseName	Varchar	15	Course
19	Date	Date	8	PaymentModeMaster
20	Description	Varchar	15	RoomType
21	Duration	Integer	3	AvailFacility
22	Email	Varchar	15	StudentMaster
23	FacilityId	Integer	3	Facility
24	FacilityCharges	Integer	5	Facility
25	FacilityName	Varchar	15	Facility
26	From	Varchar	15	PaymentModeMaster
27	FullName	Varchar	15	StudentMaster

28	Gender	Varchar	15	StudentMaster
29	GuardianAddress	Varchar	25	StudentMaster
30	GuardianContactno	Integer	10	StudentMaster
31	InstallmentAmount	Integer	5	Installment
32	InstallmentDate	Date	8	Installment
33	InstallmentId	Integer	3	Installment
34	LeaveDate	Date	8	LeaveApplication
35	LeaveId	Integer	3	LeaveApplication
36	LeavingDate	Date	8	Cancellation
37	LocalAddress	Varchar	25	StudentMaster
38	No	Integer	3	PaymentModeMaster
39	NoOfInstallments	Integer	2	Installment
40	NoOfLeaves	Integer	3	LeaveApplication
41	ParentContactNo	Integer	10	StudentMaster
42	ParentEmail	Varchar	15	StudentMaster
43	ParentAddress	Varchar	25	StudentMaster
44	ParentName	Varchar	15	StudentMaster
45	Password	Varchar	15	Login
46	PaymentId	Integer	5	Payment
47	PaymentMode	Varchar	15	Payment
48	PaymentStatus	Varchar	15	Payment
49	PaymentType	Varchar	15	Payment
50	PermanentAddress	Varchar	25	StudentMaster
51	Reason	Varchar	15	LeaveApplication
52	RegistrationDate	Date	8	StudentMaster
53	Relation	Varchar	15	StudentMaster
54	RemainingAmount	Integer	5	Payment
55	RoomAllocationId	Integer	3	RoomAllocation
56	RoomId	Integer	3	RoomMaster
57	RoomTypeId	Integer	3	RoomType
58	RoomTypeName	Varchar	15	RoomType

59	Status	Varchar	15	RoomMaster
60	StudentAddress	Varchar	25	Admission
61	StudentId	Integer	4	StudentMaster
62	StudentName	Varchar	15	Admission
63	To	Varchar	15	PaymentModeMaster
64	TotalCharges	Integer	5	Payment
65	TotalFacilityCharges	Integer	5	AvailFacility
66	TotalPaidAmount	Integer	5	Payment
67	Username	Varchar	15	Login

3.5 TABLE DESIGN

1.StudentMaster

Field name	Data Type	Width	Constraints
StudentId	Integer	4	Primary key
FullName	Varchar	25	Not null
Gender	Varchar	6	Not null
BirthDate	Date	8	Not null
Age	Integer	2	Not null
CourseId	Integer	3	Foreign Key referring Course
CollegeName	Varchar	25	Not null
AdmissionId	Integer	4	Not null
LocalAddress	Varchar	25	Not null
PermanentAddress	Varchar	25	Not null
ContactNo	Integer	10	Not null
Email	Varchar	15	
GuardianAddress	Varchar	25	Not null
GuardianContactno	Integer	10	Not null
ParentName	Varchar	25	Not null
ParentAddress	Varchar	25	Not null
ParentEmail	Varchar	15	Not null
Relation	Varchar	15	
RegistrationDate	Date	8	Not null

2.RoomType

Field name	Data Type	Width	Constraints
RoomTypeId	Integer	3	Primary key
RoomTypeName	Varchar	15	Not null
Description	Varchar	15	Not null
Charges	Integer	4	Not null

3.RoomMaster

Field name	Data Type	Width	Constraints
RoomId	Integer	3	Primary key
RoomTypeId	Integer	3	Foreign Key referring RoomType
Capacity	Integer	1	Not null

Status	Varchar	15	Not null

4.Facility

Field name	Data Type	Width	Constraints
FacilityId	Integer	3	Primary key
FacilityName	Varchar	15	Not null
FacilityCharges	Integer	4	Not null

5.RoomAllocation

Field name	Data Type	Width	Constraints
RoomAllocationId	Integer	3	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
RoomId	Integer	3	Foreign Key referring RoomMaster
AvailableCapacity	Integer	1	Not null

6.AvailFacility

Field name	Data Type	Width	Constraints
AId	Integer	3	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
FacilityId	Integer	3	Foreign Key referring Facility
Duration	Integer	3	Not null
TotalFacilityCharges	Integer	3	Not null

7.Installment

Field name	Data Type	Width	Constraints
InstallmentId	Integer	3	Primary key

StudentId	Integer	4	Foreign Key referring StudentMaster
NoOfInstallments	Integer	2	Not null
InstallmentAmount	Integer	3	Not null
InstallmentDate	Date	8	Not null

8.Payment

Field name	Data Type	Width	Constraints
PaymentId	Integer	5	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
RoomAllocationId	Integer	3	Foreign Key referring RoomAllocation
PaymentType	Varchar	15	Not null
PaymentMode	Varchar	15	Not null
InstallmentId	Integer	3	Foreign Key referring Installment
TotalCharges	Integer	5	Not null
TotalPaidAmount	Integer	5	Not null
RemainingAmount	Integer	5	Not null
PaymentStatus	Varchar	15	Not null

9.AdvancePayment

Field name	Data Type	Width	Constraints
AdvanceId	Integer	5	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
AdvanceAmount	Integer	4	Not null

10.PaymentModeMaster

Field name	Data Type	Width	Constraints
No	Integer	3	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
PaymentId	Integer	3	Foreign Key referring Payment
To	Varchar	15	Not null
From	Varchar	15	Not null
BankName	Varchar	15	Not null
Branch	Varchar	15	Not null
Amount	Integer	3	Not null

Date	Date	8	Not null

11.LeaveApplication

Field name	Data Type	Width	
LeaveId	Integer	3	
StudentId	Integer	4	
NoOfLeaves	Integer	3	
Reason	Varchar	15	
LeaveDate	Date	8	

12.Attendance

Field name	Data Type	Width	Constraints
AttendanceId	Integer	3	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
RoomId	Integer	4	Foreign Key referring RoomMaster
AbsentDate	Date	8	Not null

13.Cancellation

Field name	Data Type	Width	Constraints
CancellationId	Integer	3	Primary key
StudentId	Integer	4	Foreign Key referring StudentMaster
RoomId	Integer	4	Foreign Key referring RoomMaster
PaymentId	Integer	3	Foreign Key referring Payment
LeavingDate	Date	8	Not null

14.Login

Field name	Data Type	Width	Constraints
Username	Varchar	15	Primary key
Password	Varchar	15	Not null

15.Admission(External database)

Field name	Data Type	Width	Constraints
AdmissionId	Integer	3	Primary key
StudentName	Varchar	15	Not null
StudentAddress	Varchar	25	Not null
CourseId	Integer	3	Foreign Key referring Course
AdmissionDate	Date	8	Not null

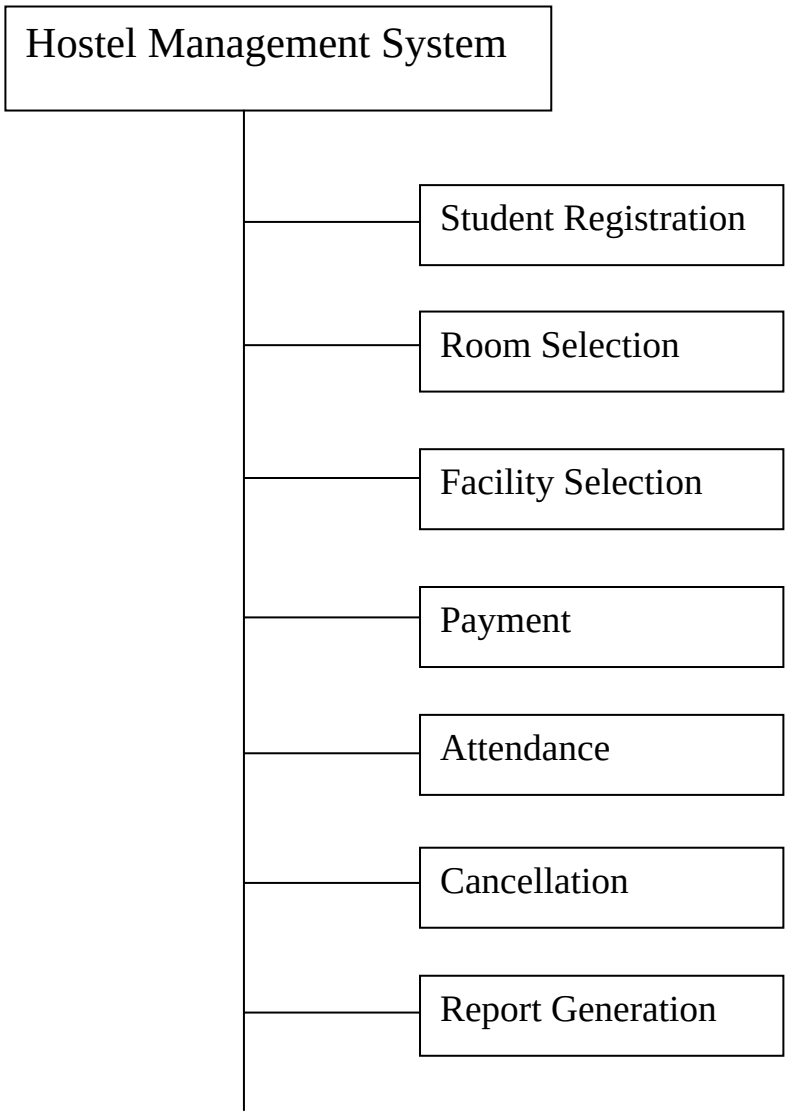
16.Course(External database)

Field name	Data Type	Width	Constraints
CourseId	Integer	3	Primary key
CourseName	Varchar	15	Not null

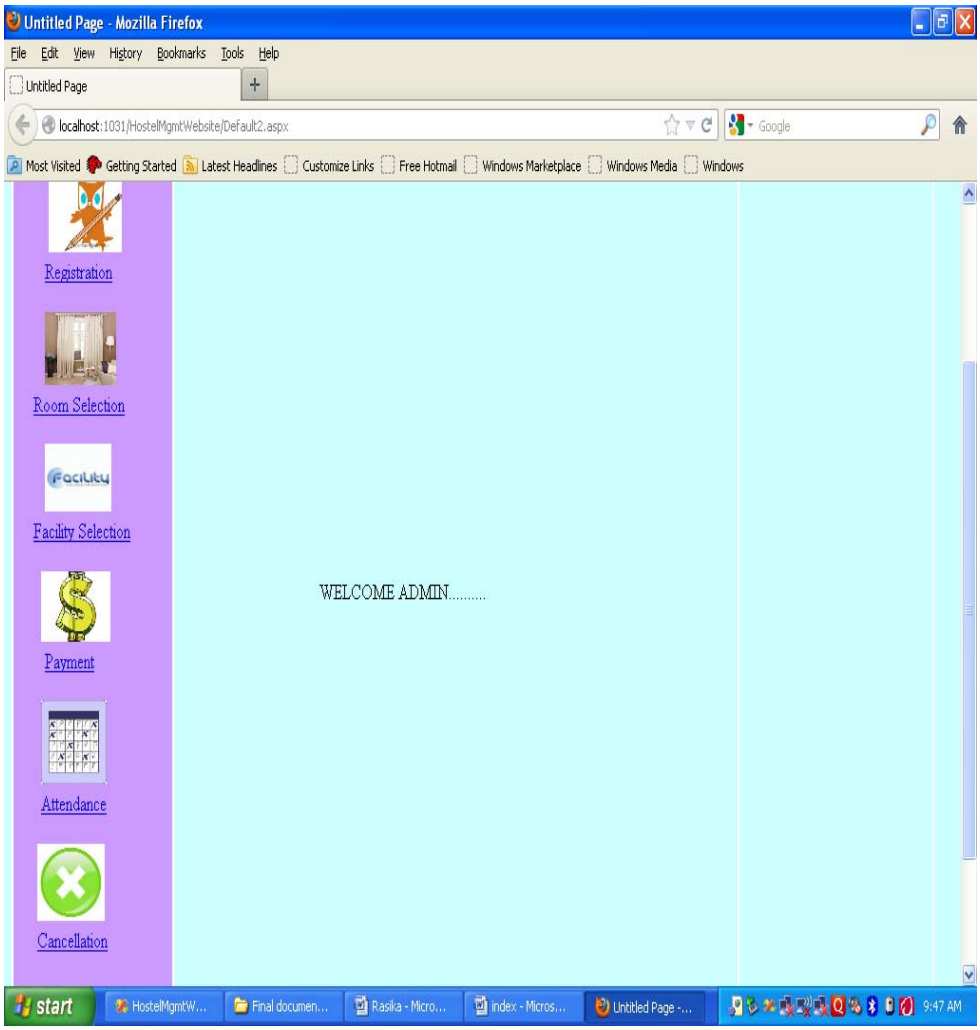
3.6 Code Design

Primary key	**Data Type**	**Range**	**Description**
StudentId	Integer	9-9999	Student unique number
CourseId	Integer	9-9999	Course unique number
RoomTypeId	Integer	9-9999	RoomType unique number
RoomId	Integer	9-9999	RoomMaster unique number
RoomAllocationId	Integer	9-9999	RoomAllocation unique number
PaymentId	Integer	9-9999	Payment unique number
AdvanceId	Integer	9-9999	AdvancePayment unique number
PaymentModeId	Integer	9-9999	PaymentModeMaster unique number
InstallmentId	Integer	9-9999	Installment unique number
FacilityId	Integer	9-9999	Facility unique number
Aid	Integer	9-9999	AvailFacility unique number
AttendanceId	Integer	9-9999	Attendance unique number
Cancellation	Integer	9-9999	Cancellation unique number
LeaveApplication	Integer	9-9999	LeaveApplication unique number
Username	Varchar	6- 25 char	Login unique identity
AdmissionId	Integer	9-9999	Admission unique number

3.7 Menu Tree

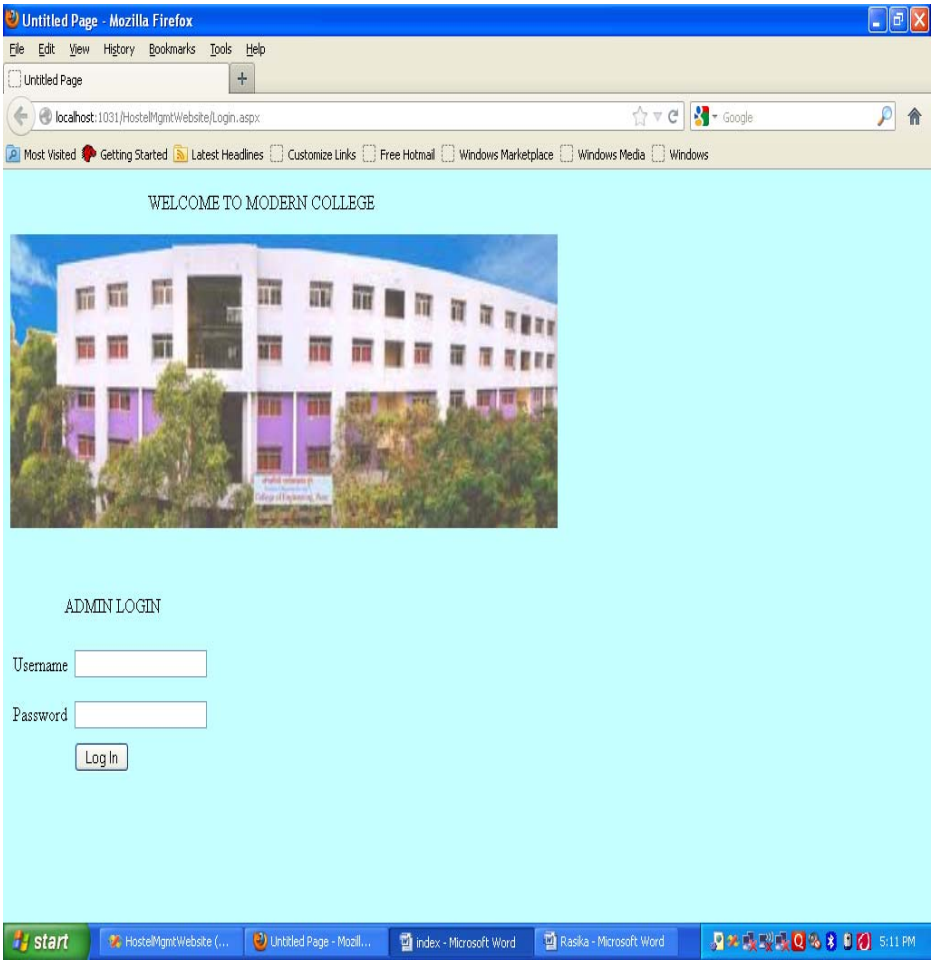

Hostel Management System
Student Registration
Room Selection
Facility Selection
Payment
Attendance
Cancellation
Report Generation

3.8 Menu Screen

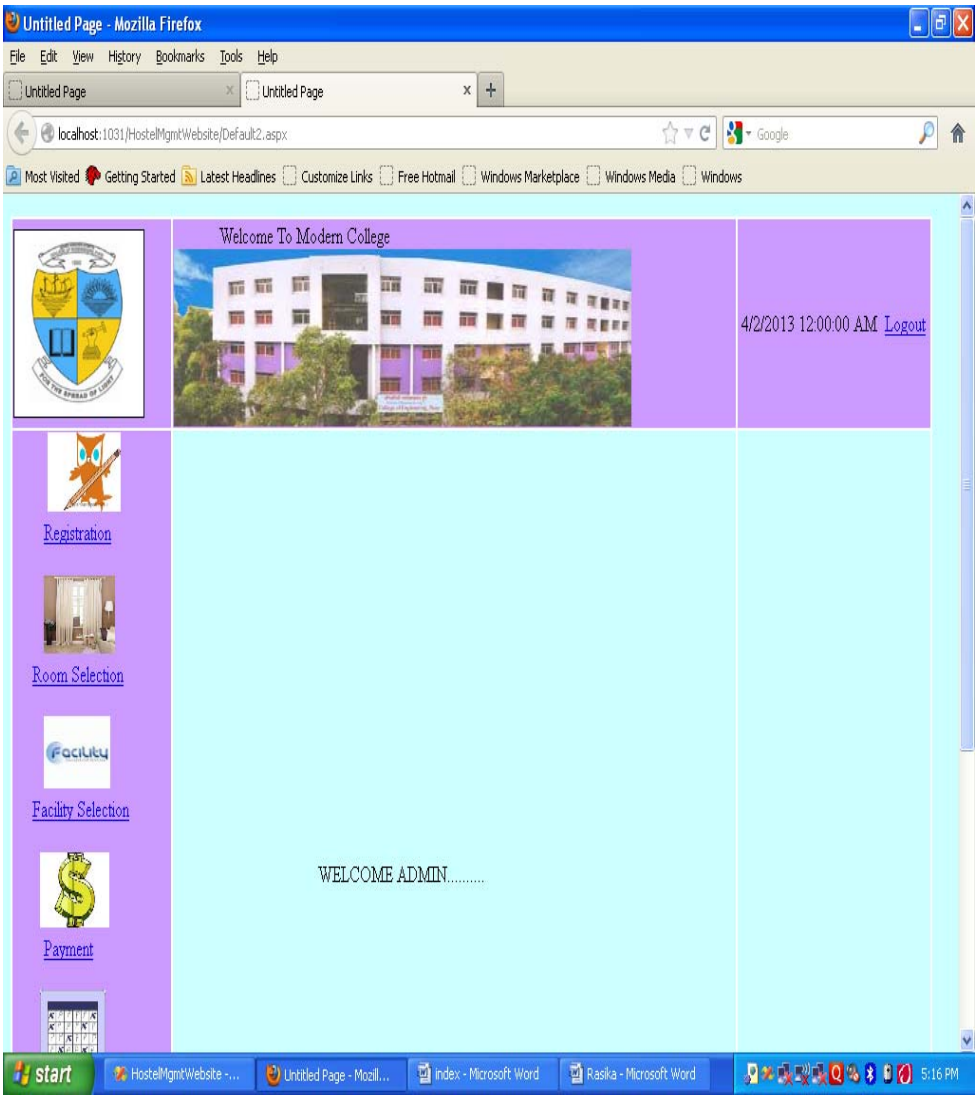


3.9 Input Forms

Admin Login



Home Page


Untitled Page - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Untitled Page
Untitled Page
localhost:1031/HostelMgmtWebsite/Default2.aspx
Most Visited Getting Started Latest Headlines Customize Links Free Hotmail Windows Marketplace Windows Media Windows
Welcome To Modern College
4/2/2013 12:00:00 AM Logout
Registration
Room Selection
Facility Selection
Payment
WELCOME ADMIN.....
start
HostelMgmtWebsite -...
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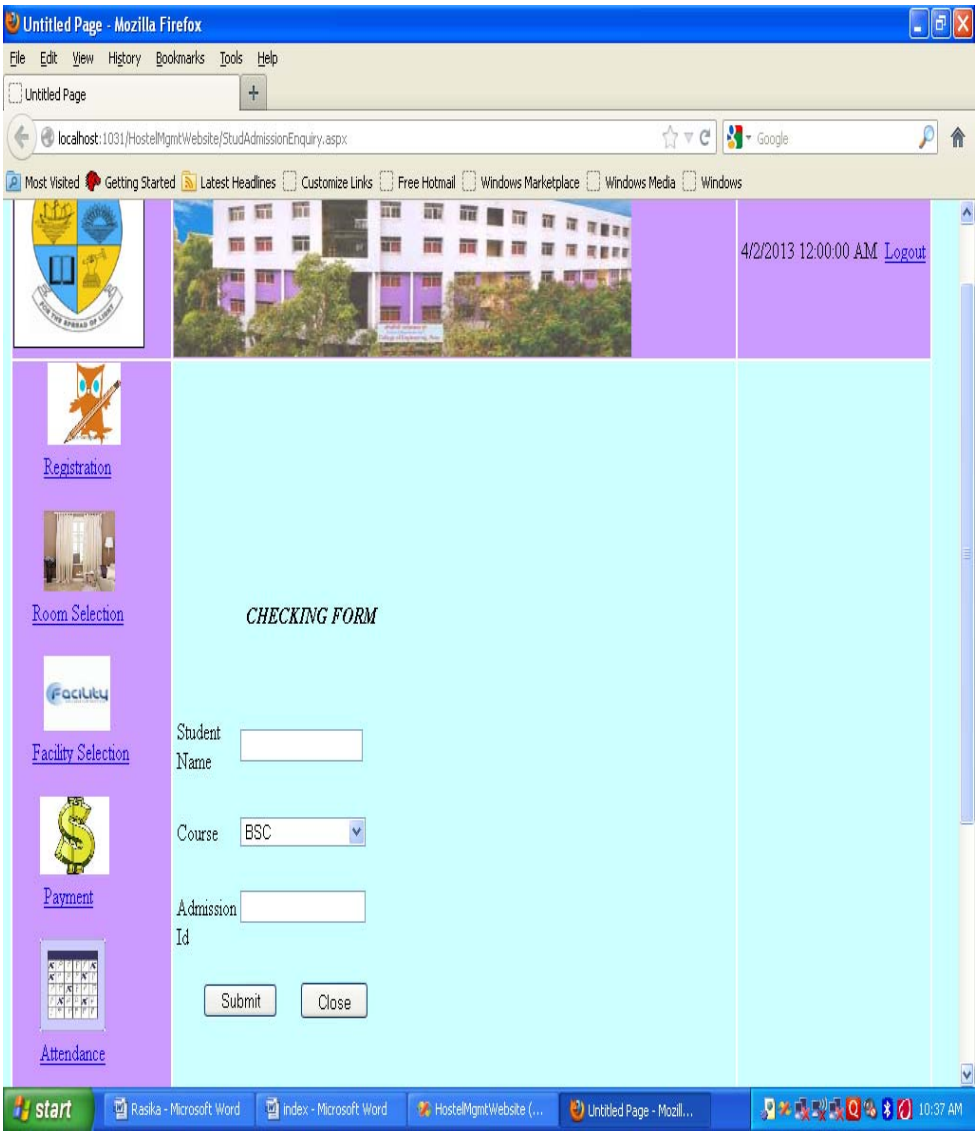
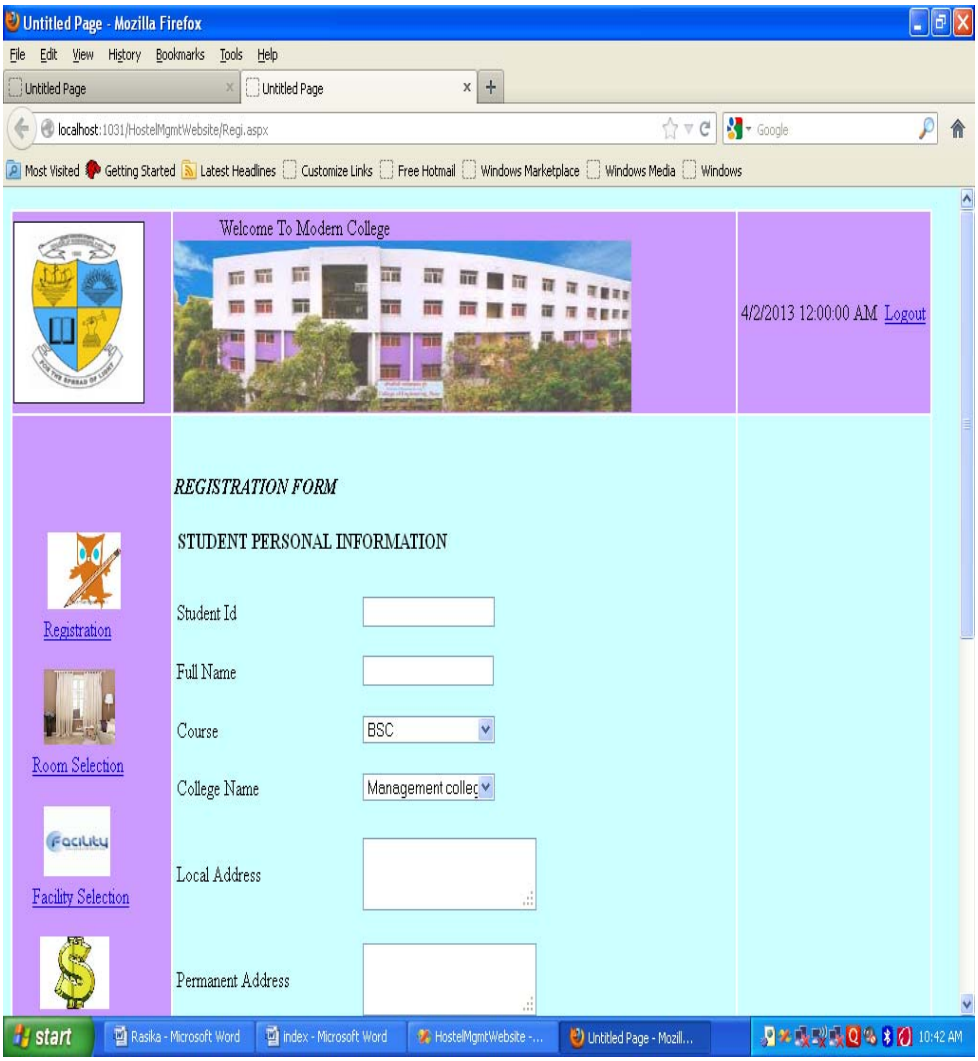
index - Microsoft Word
Rasika - Microsoft Word
5:16 PM

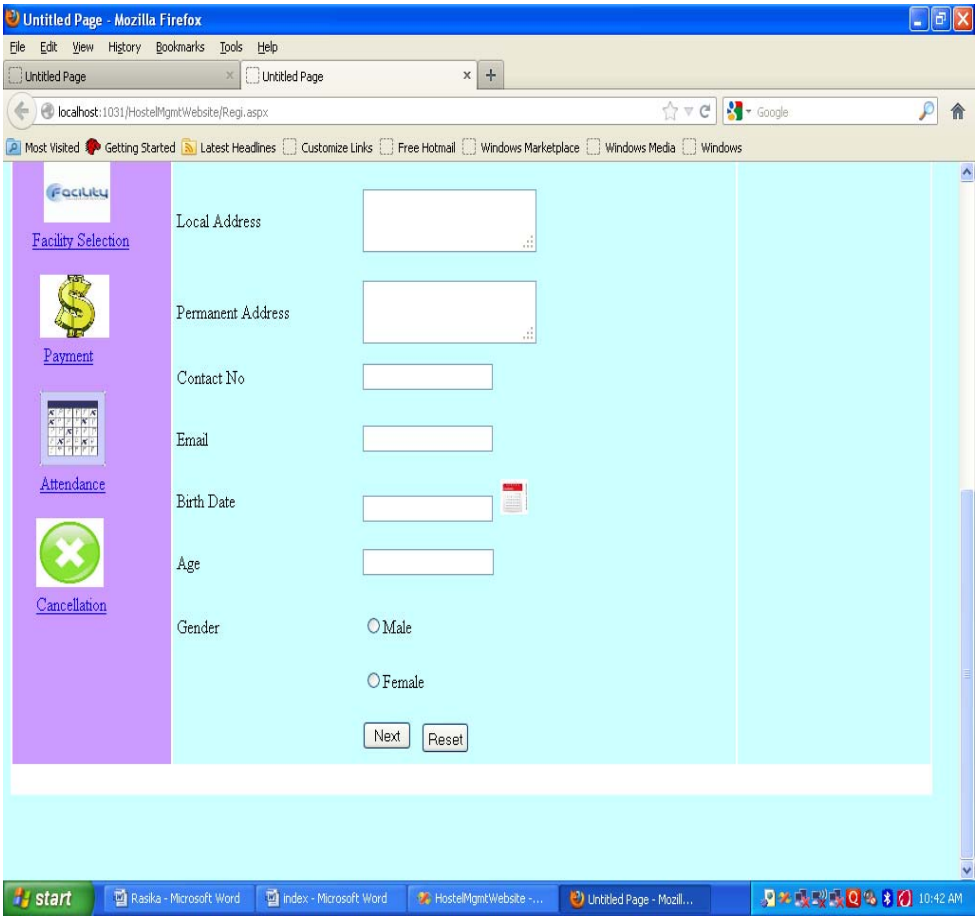
Student Checking Form



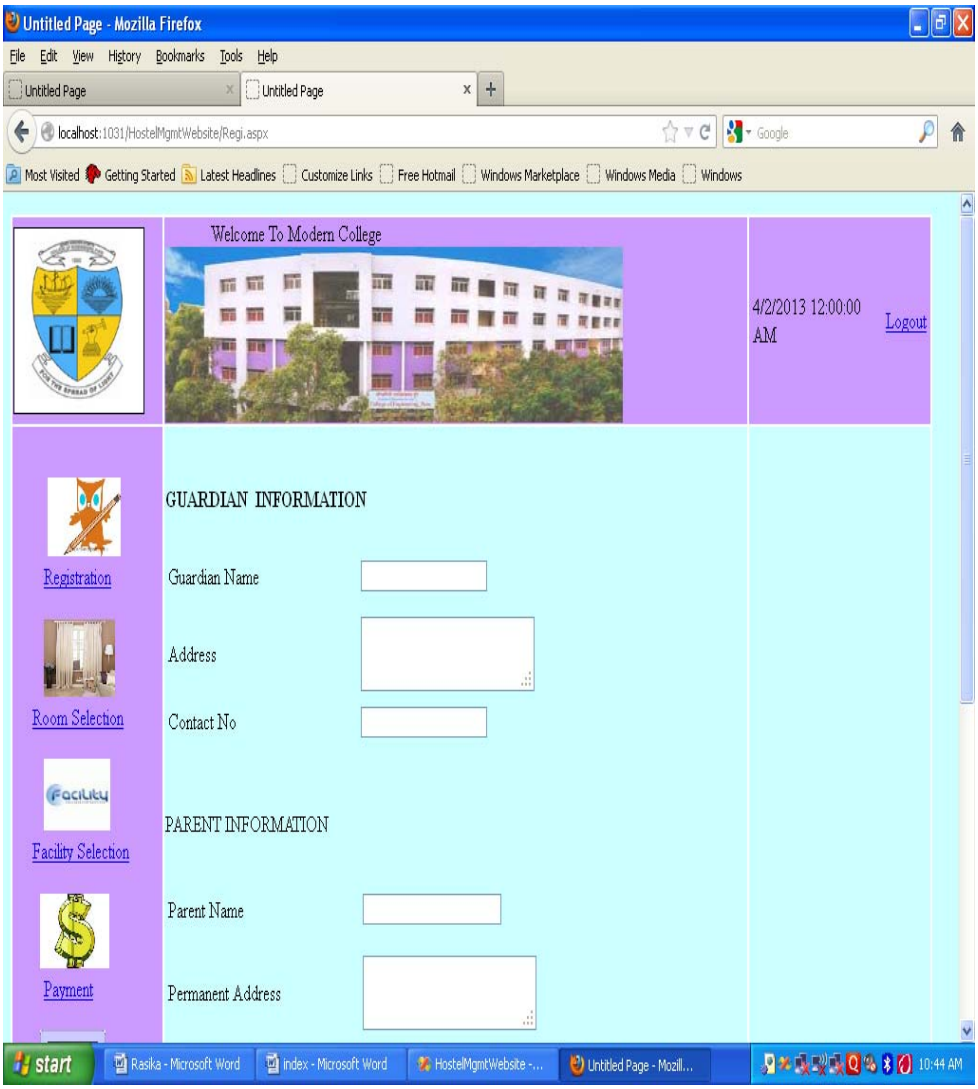
Student Registration Form



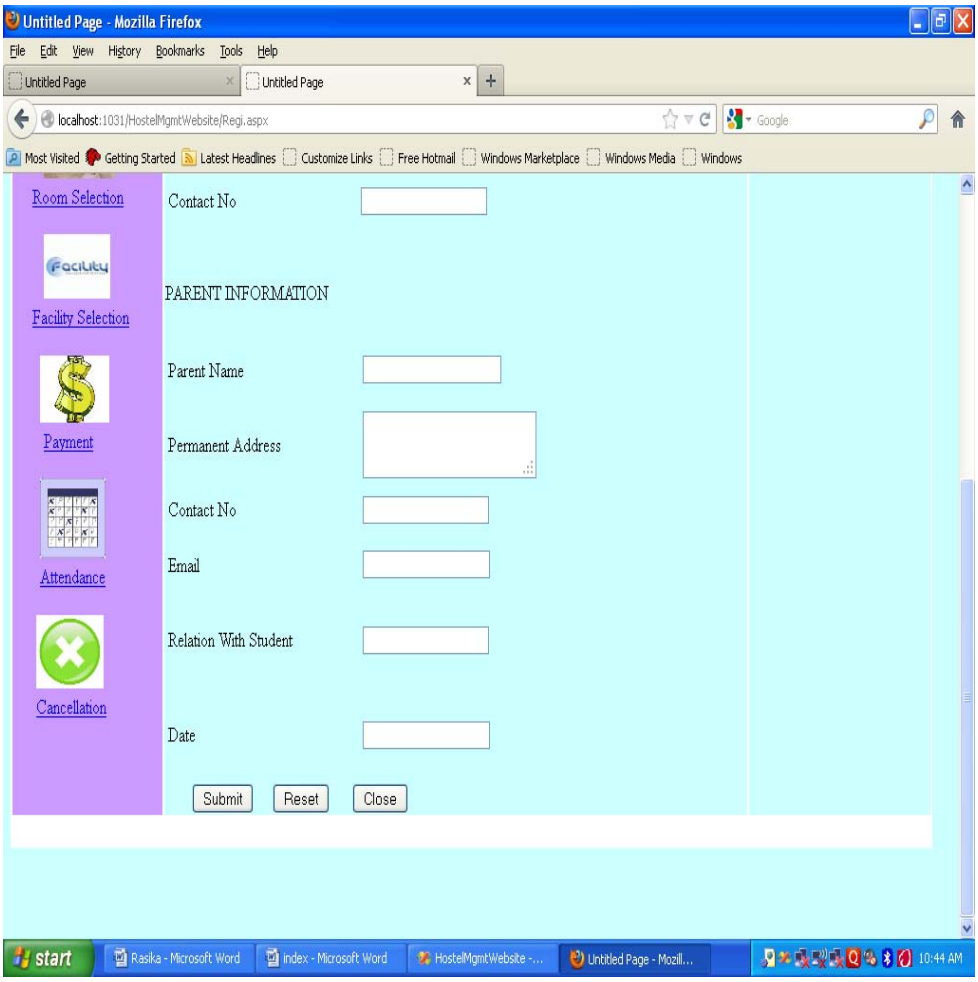
Student Registration Form



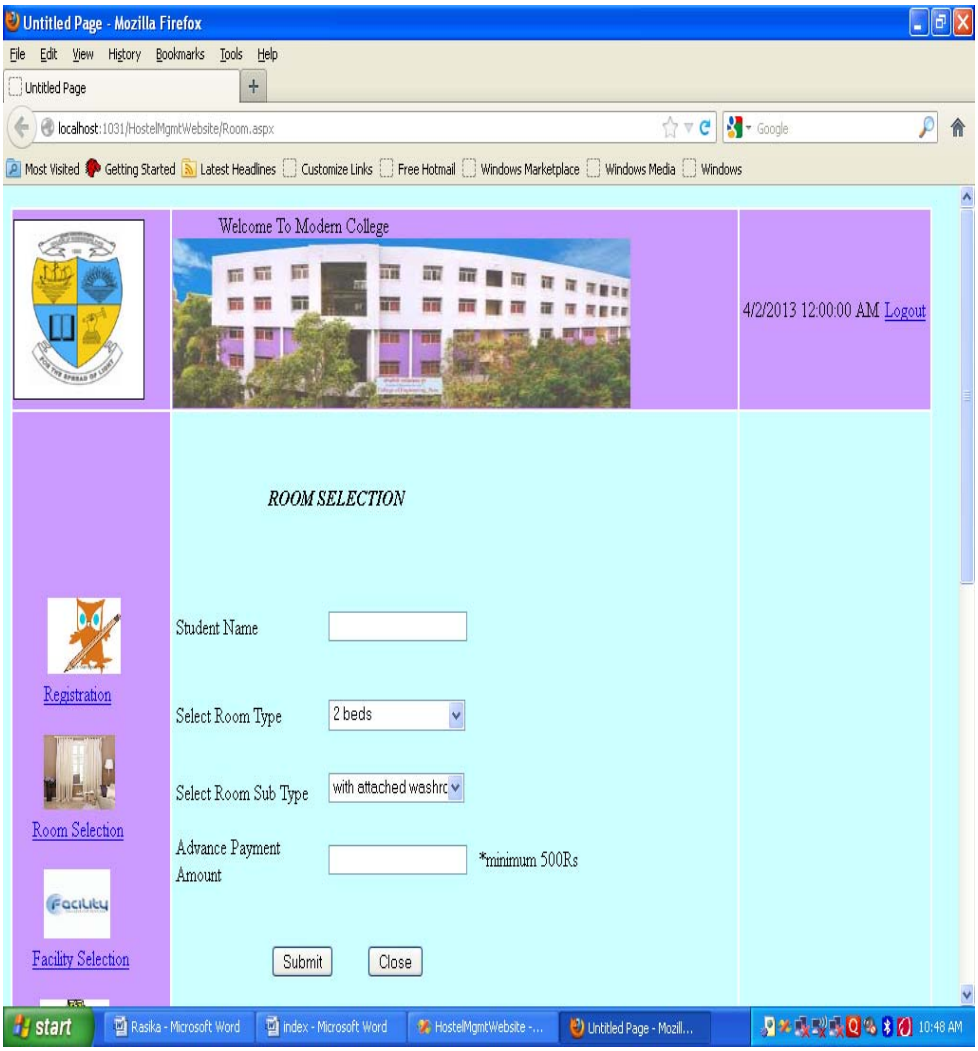
Student Registration Form



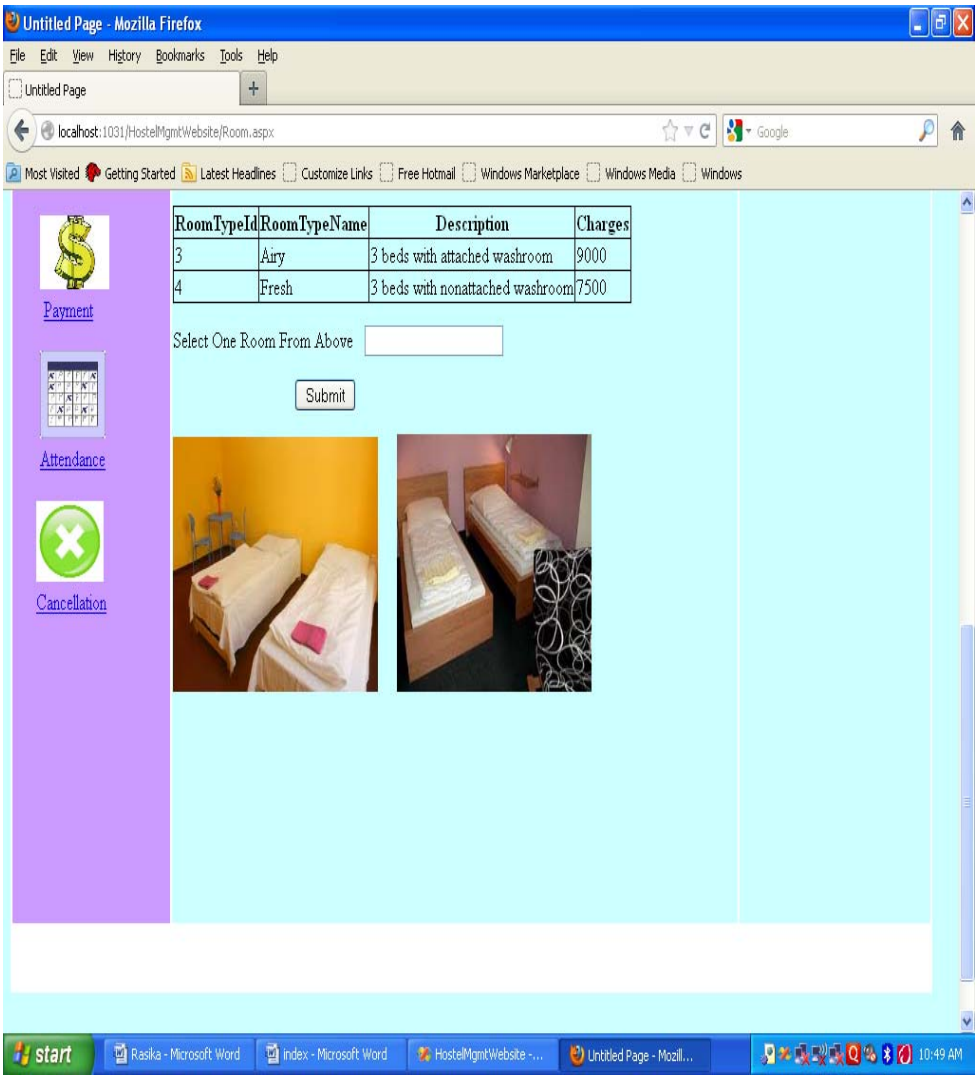
Student Registration Form



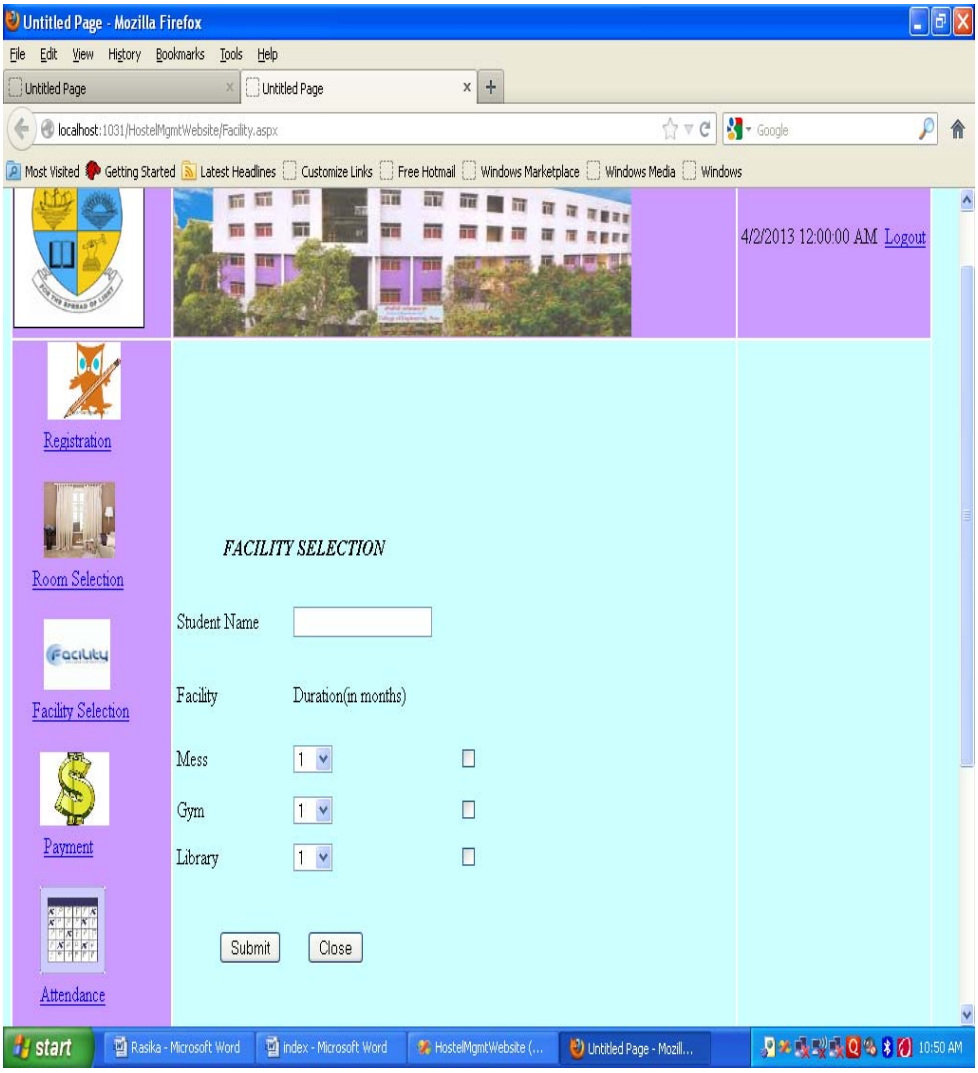
Room Selection



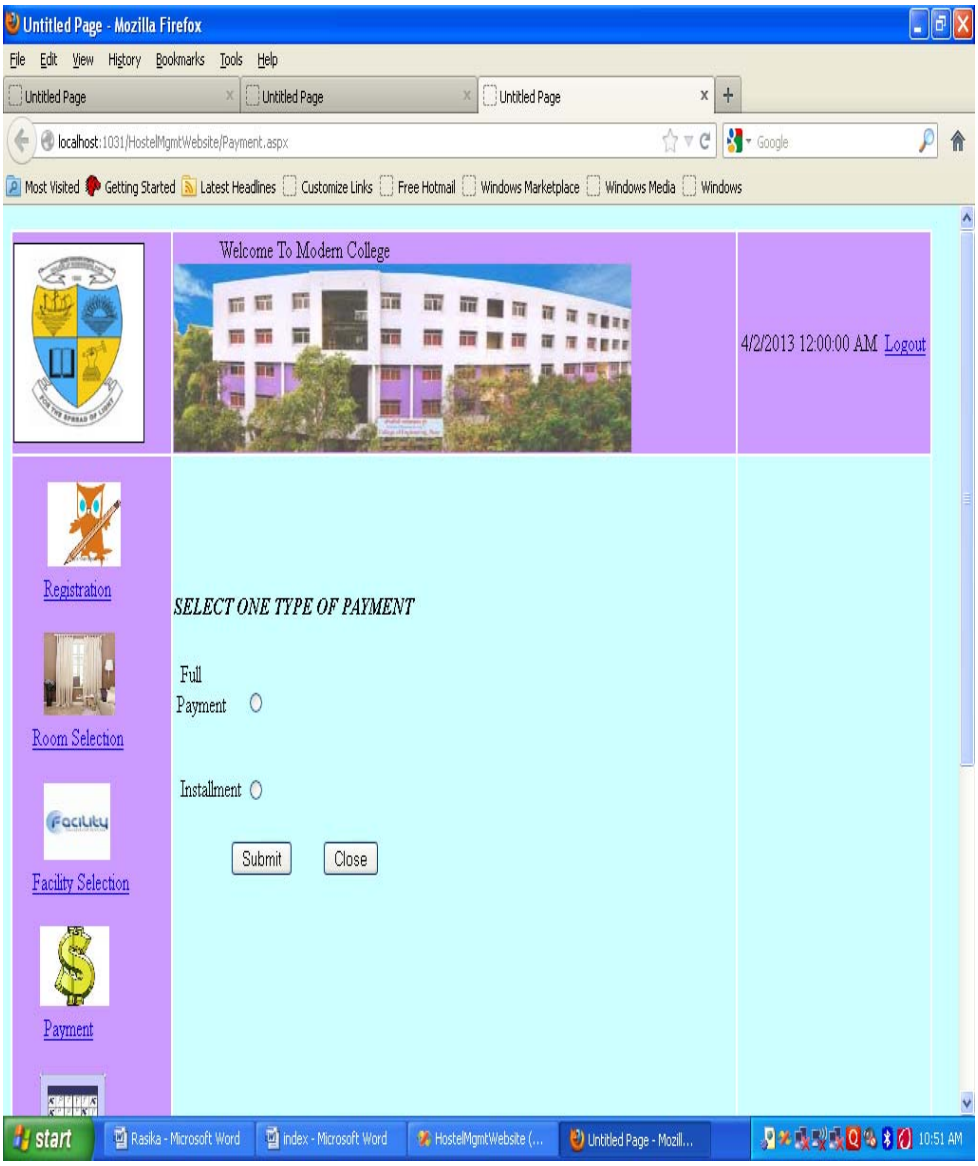
Room Selection



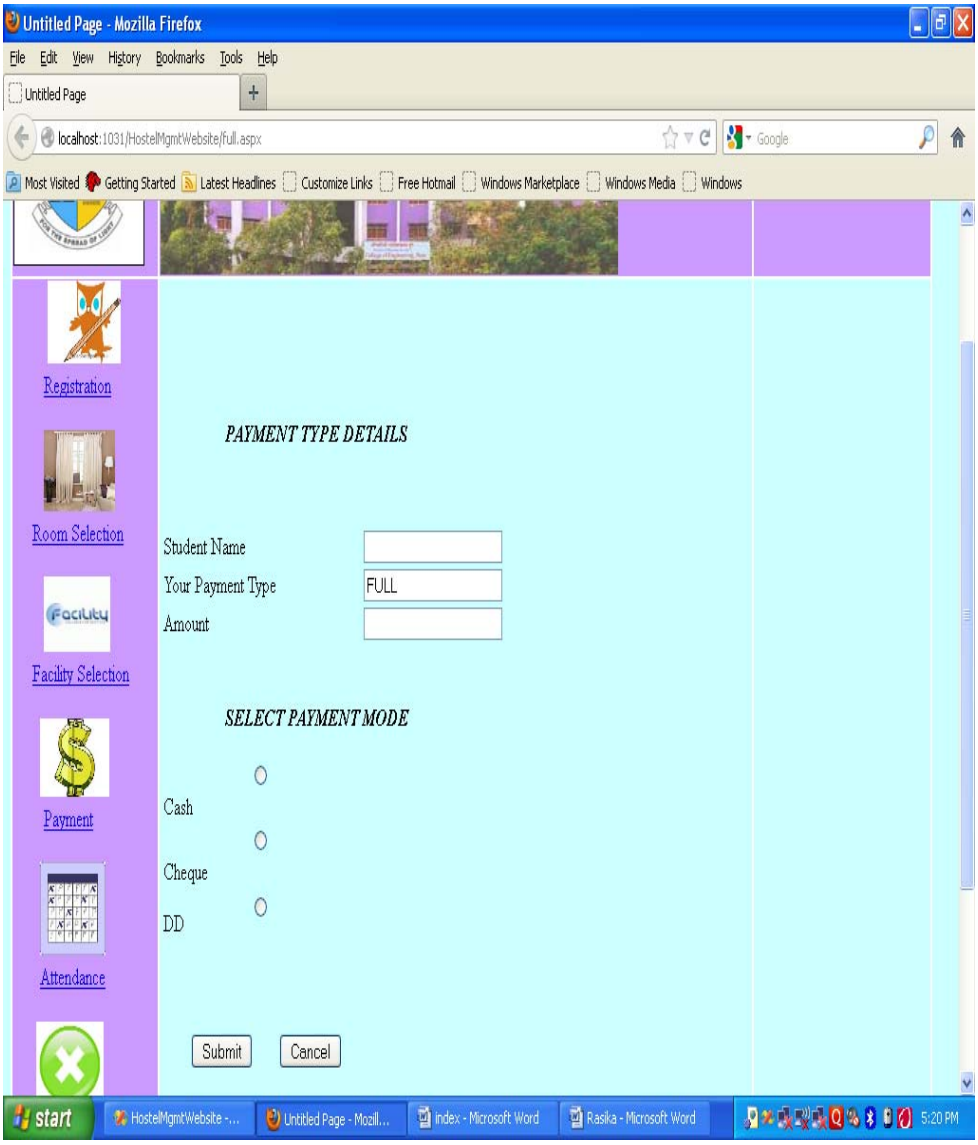
Facility Selection



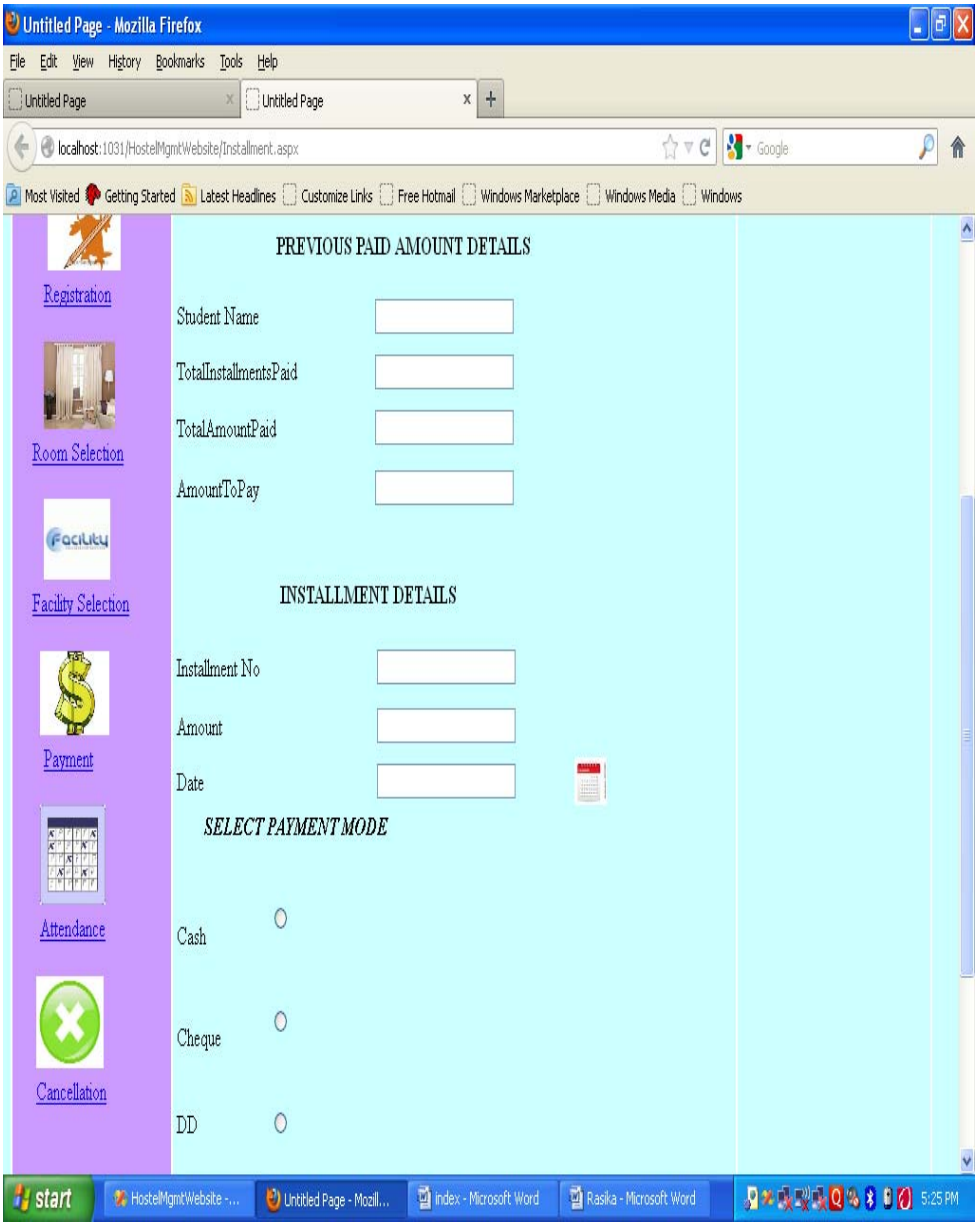
Select Payment Type



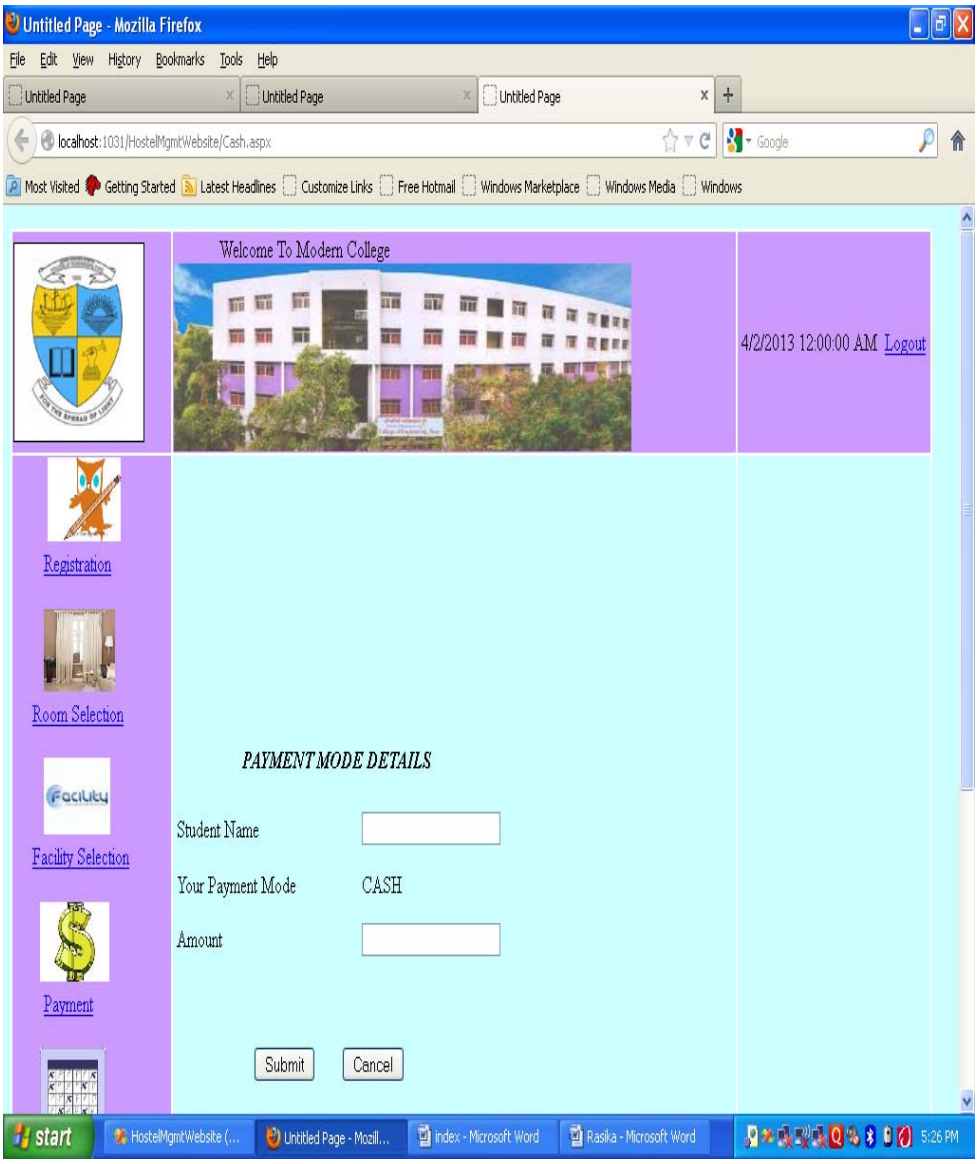
Full Payment Type



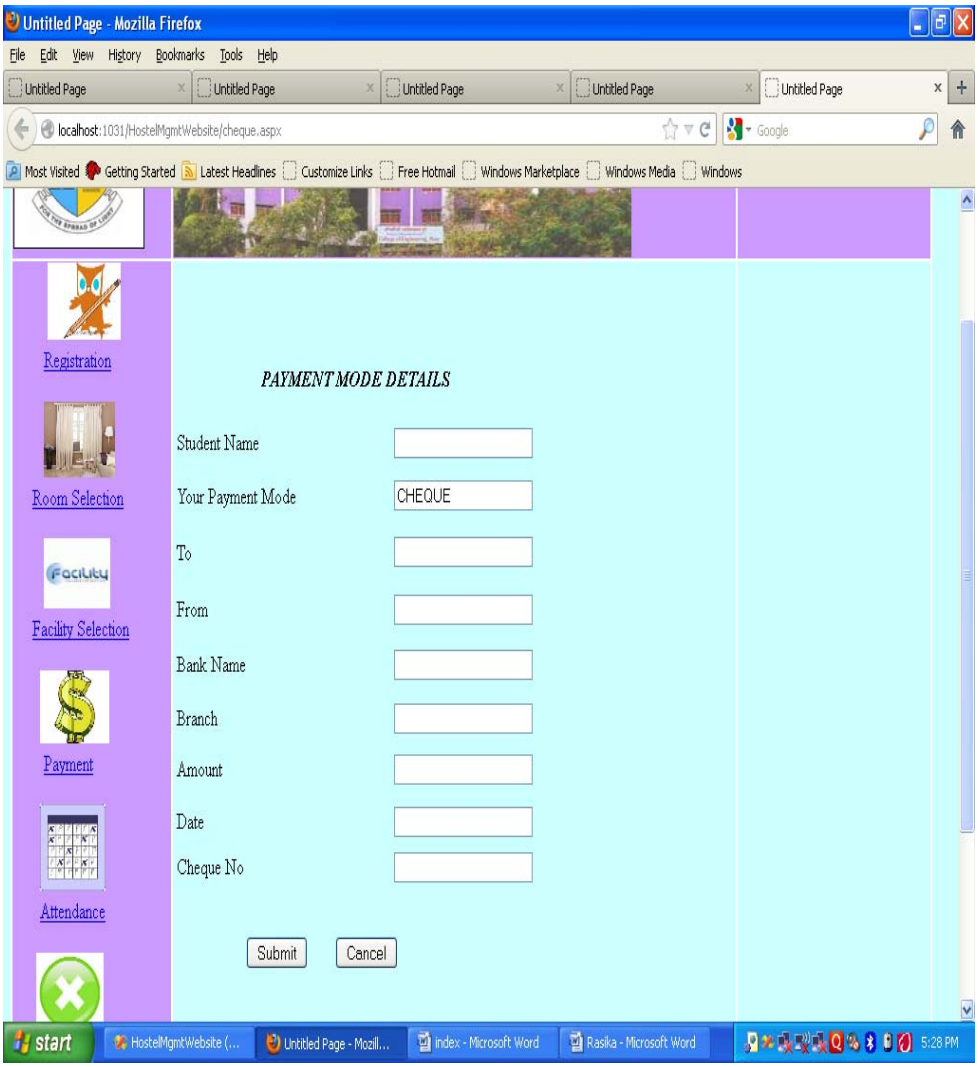
Installments Type Payment



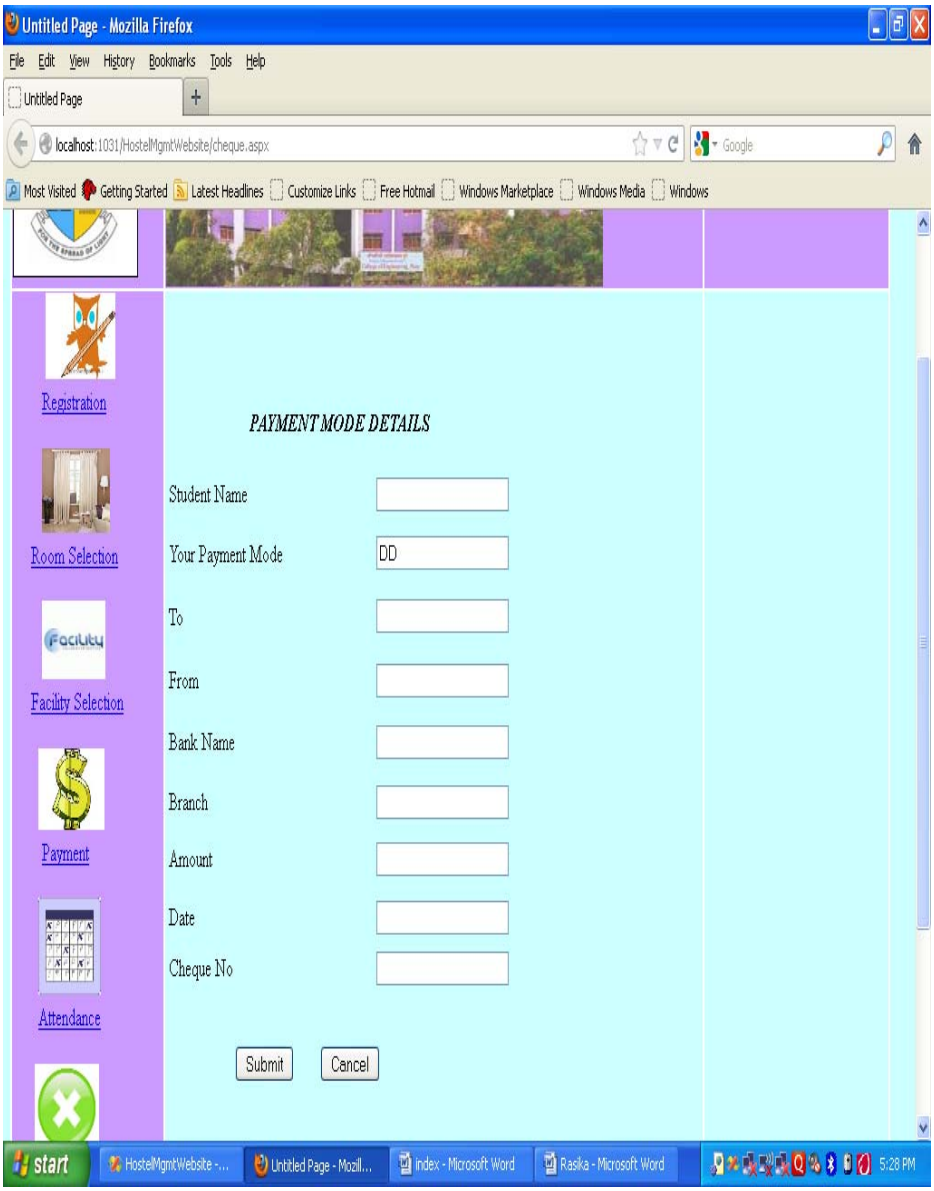
Cash Payment



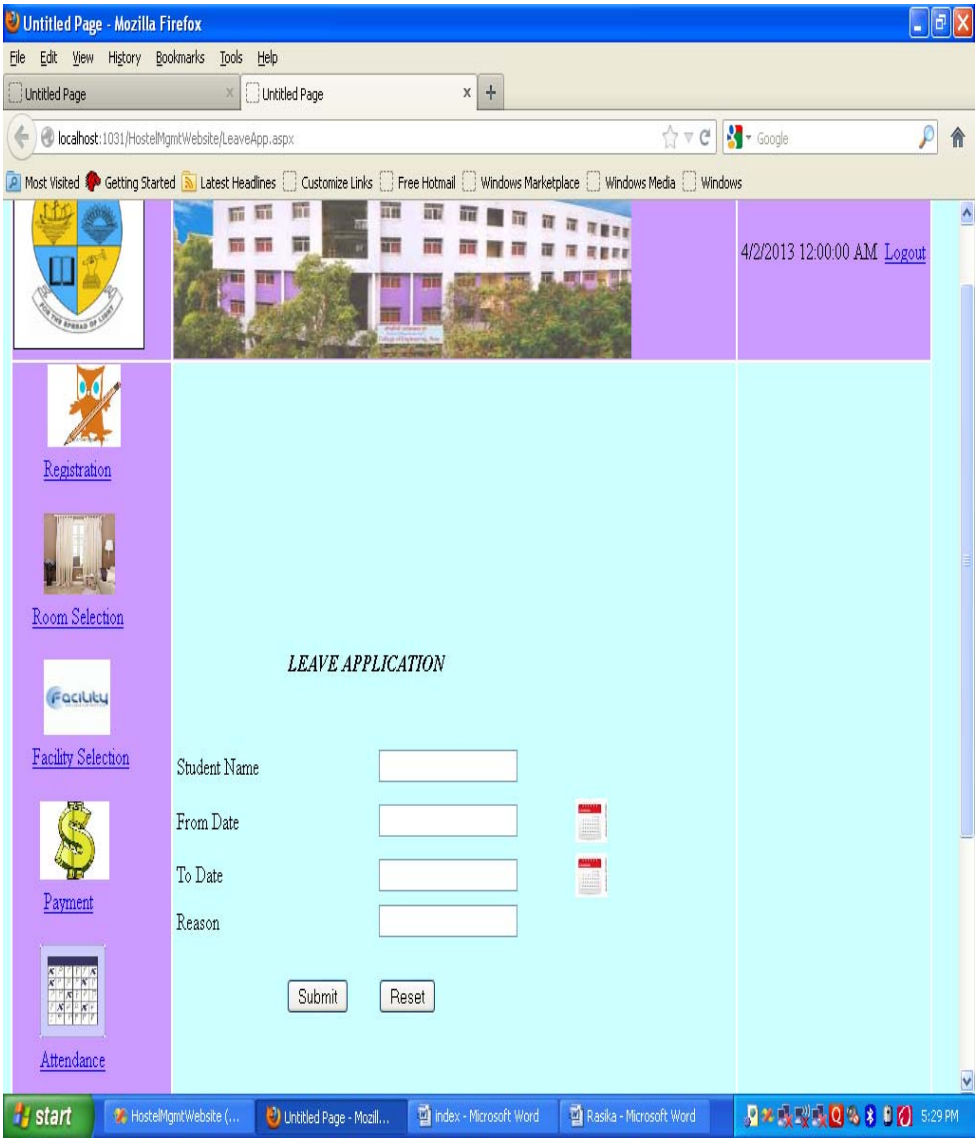
Payment By Cheque



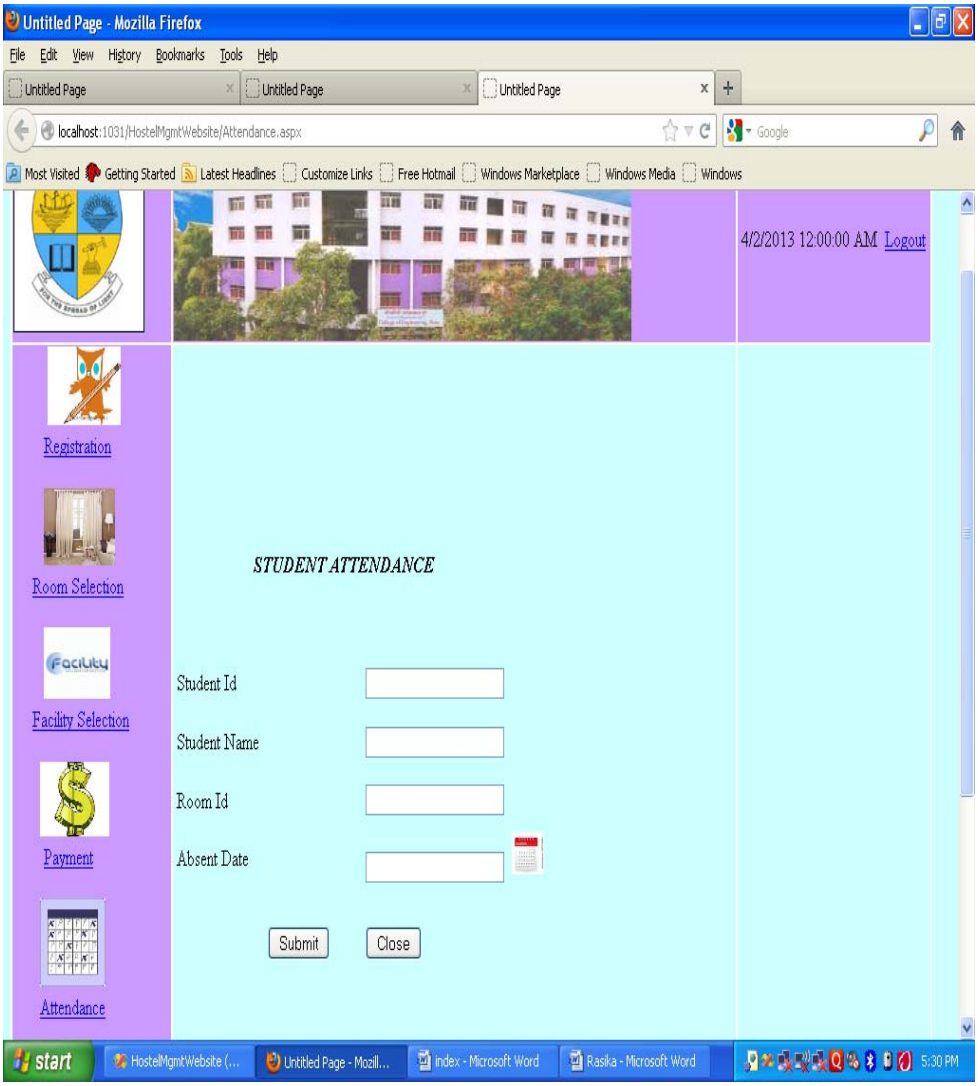
Payment By DD



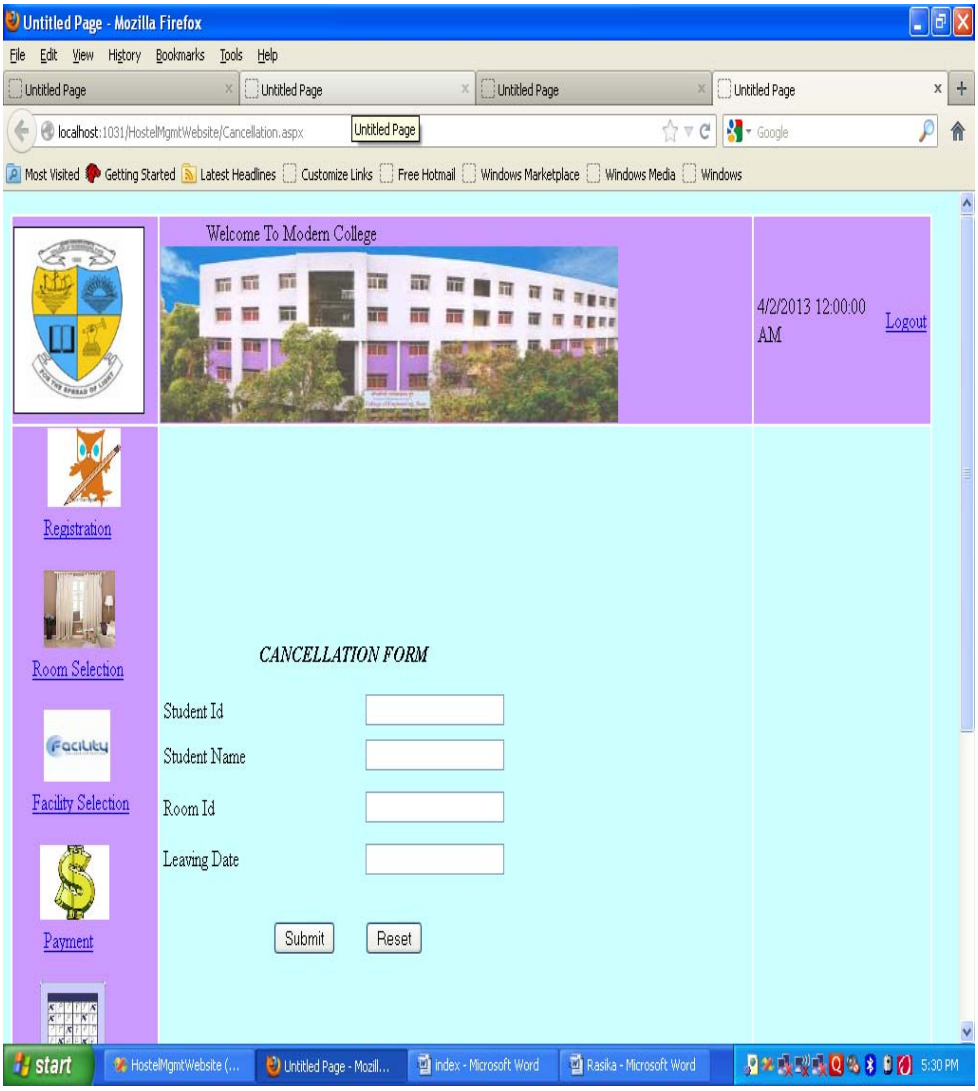
Leave Application



Attendance Form

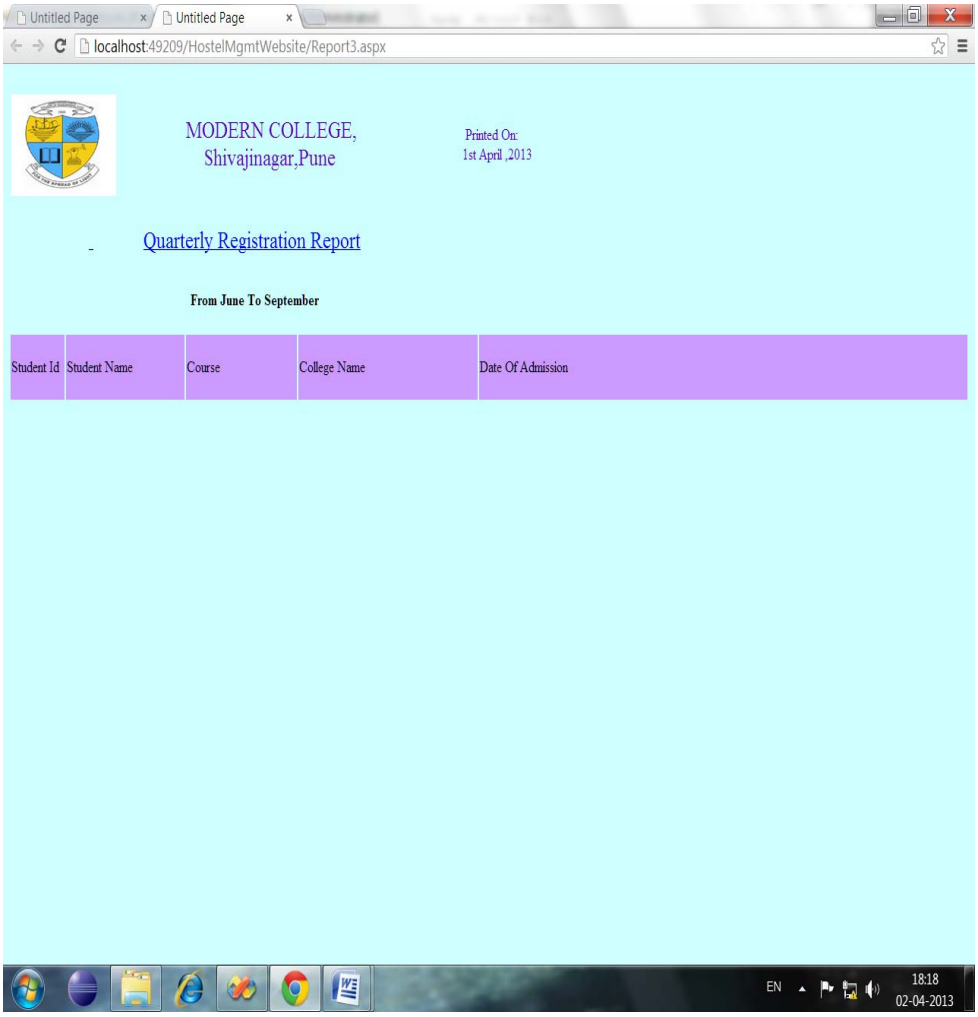


Cancellation Form

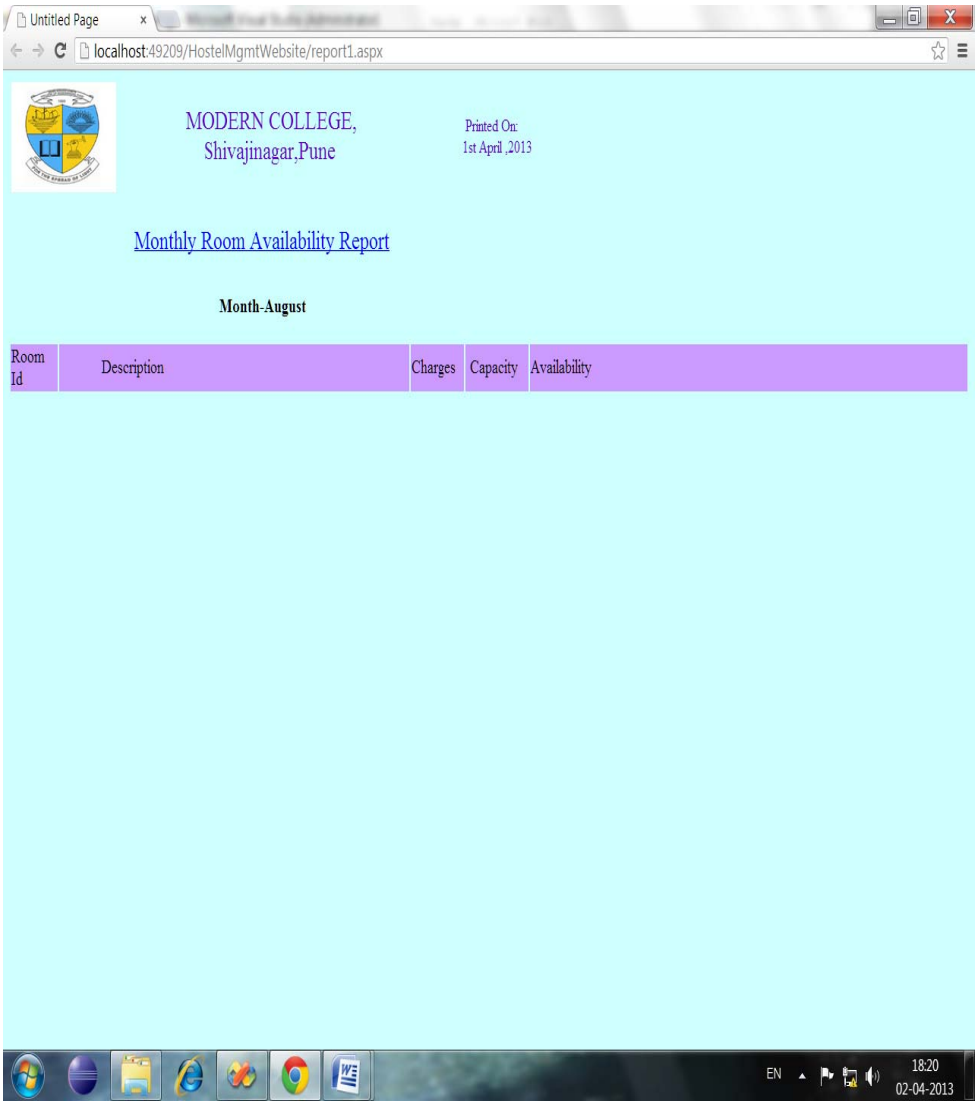


3.10 Report Formats

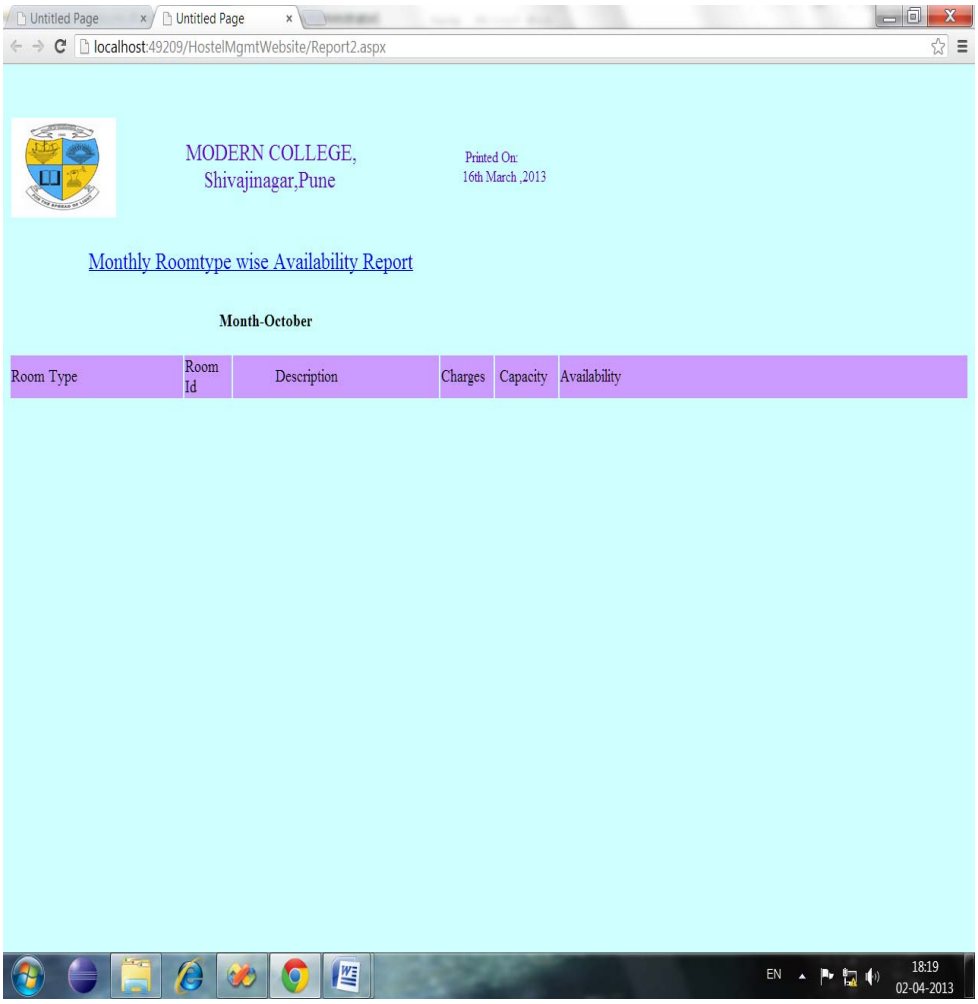
Quarterly Registration Report



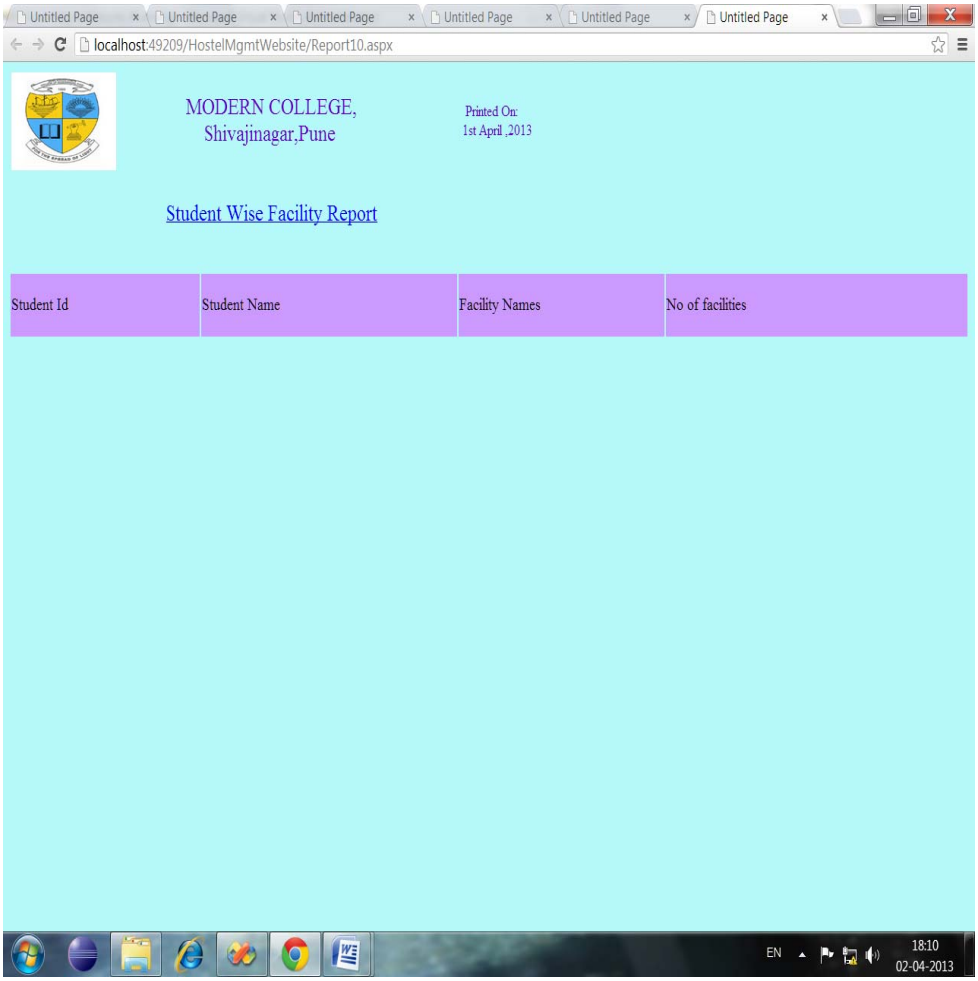
Monthly Room Availability Report



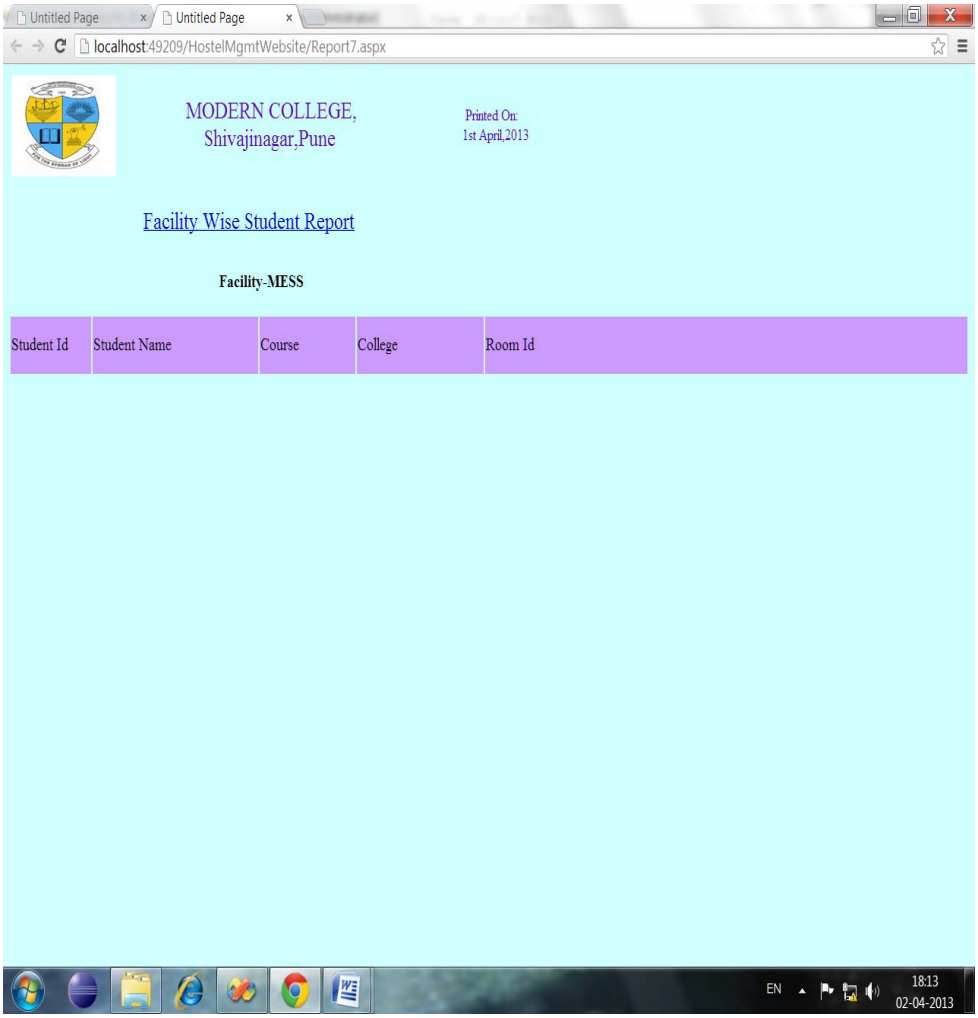
Monthly Room Type wise Availability Report



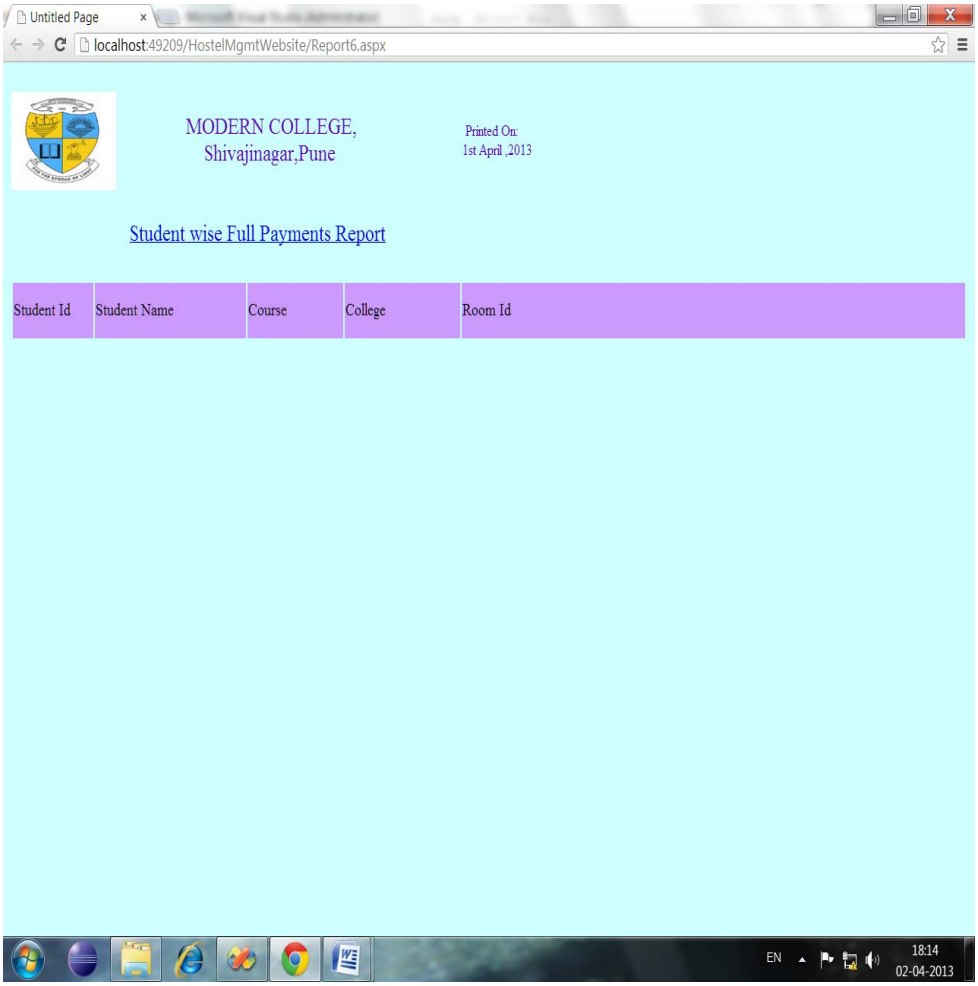
Student wise Facility Report



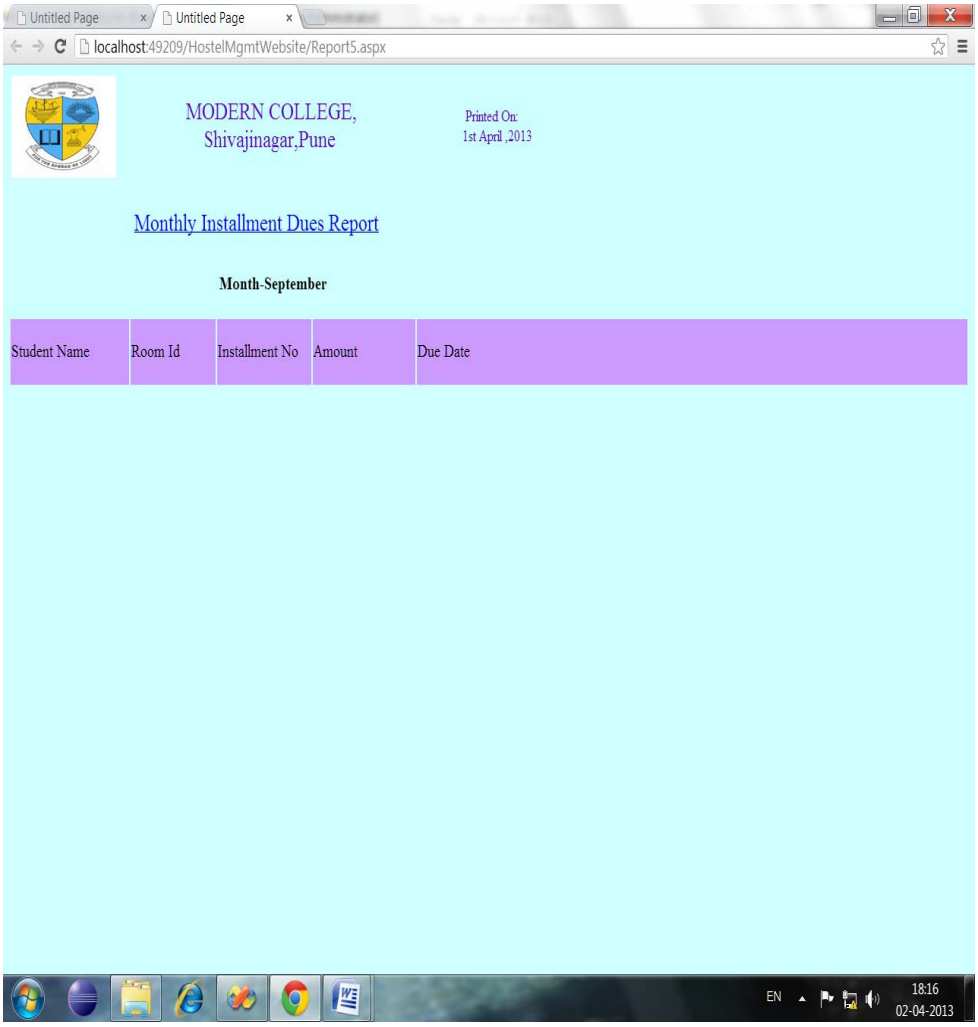
Facility wise Student Report



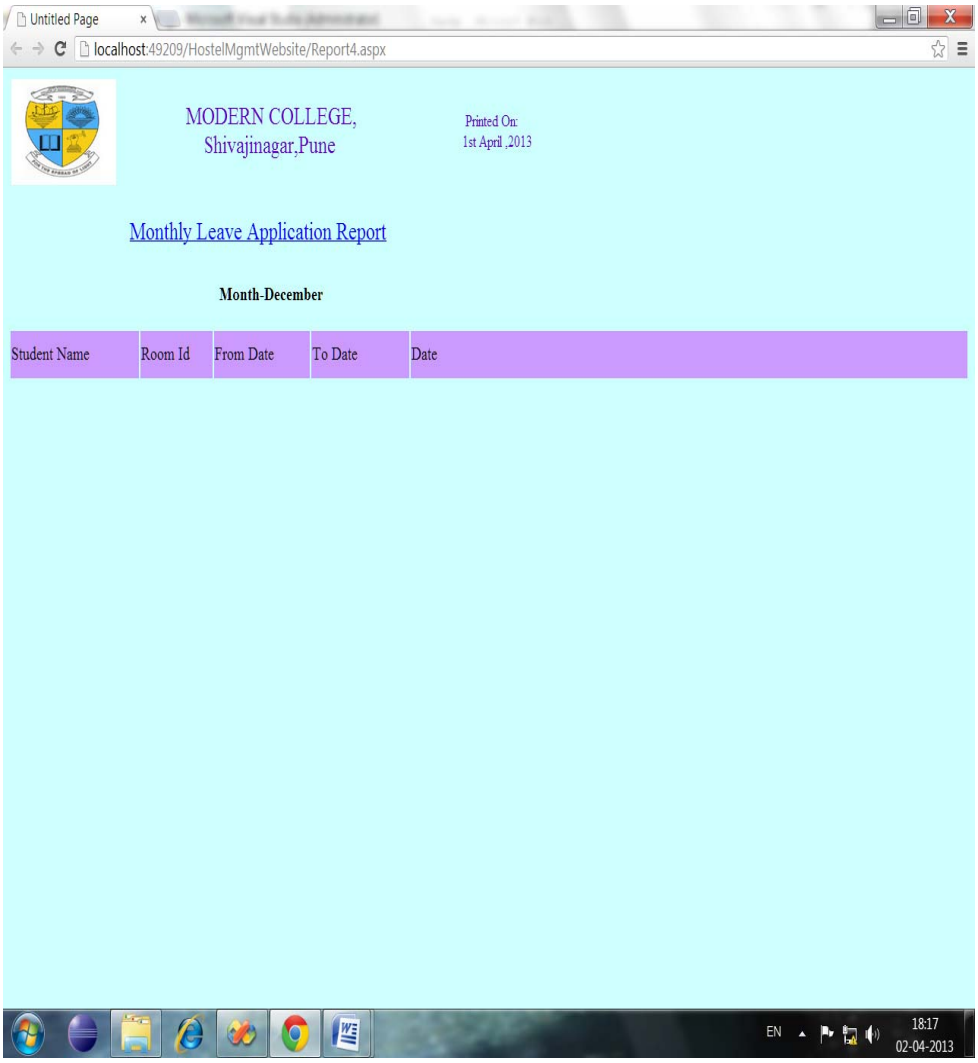
Student wise Full Payments Report



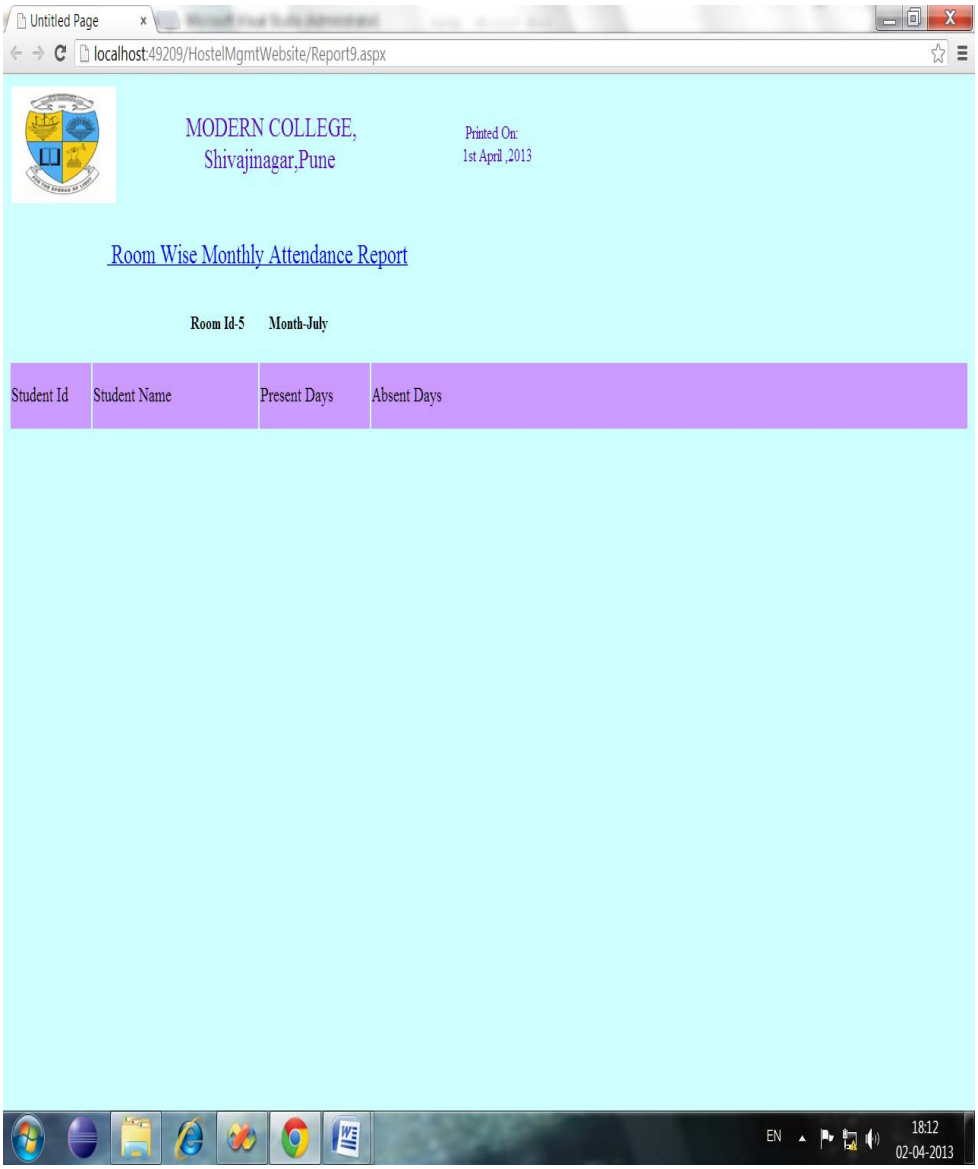
Monthly Installments Dues Report



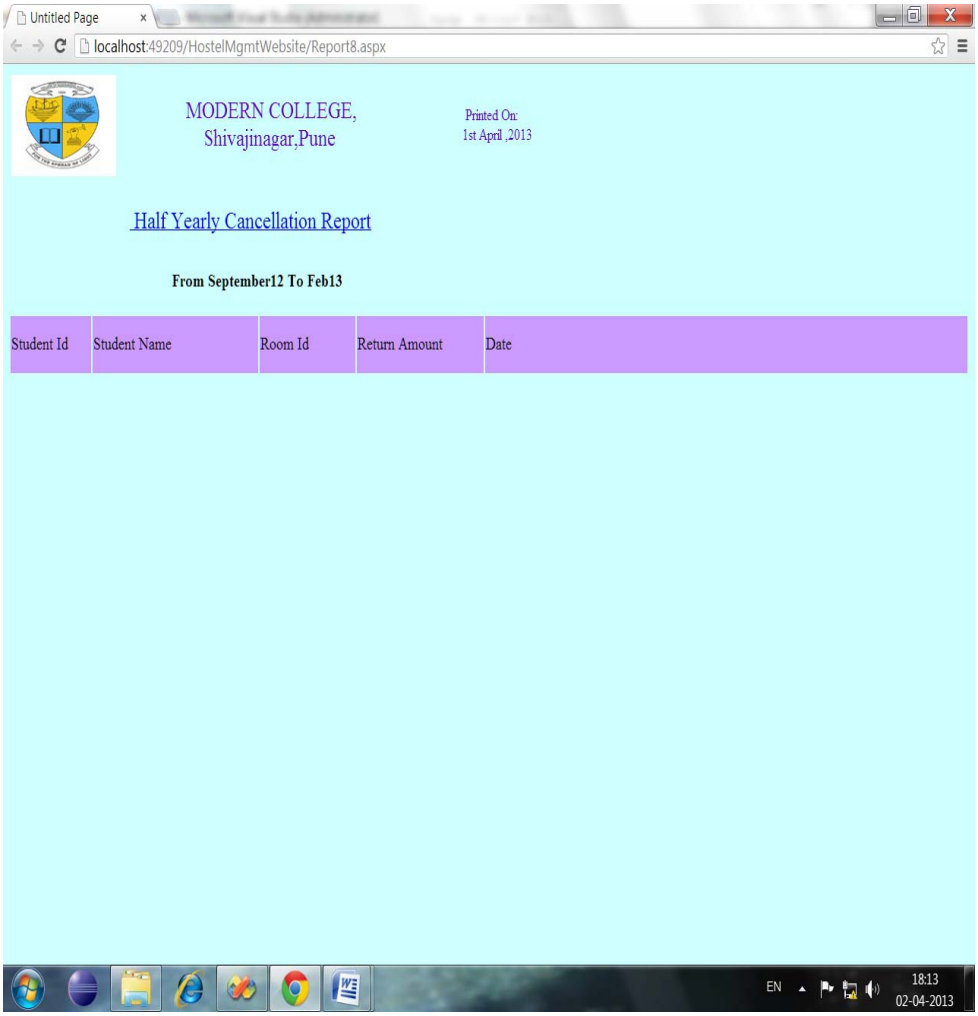
Monthly Leave Application Report



Room wise Monthly Attendance Report



Half Yearly Cancellation Report



3.11 Test procedure and implementation

A proper testing and implementation procedure is absolutely necessary for success of the system. It greatly reduces the post implementation problems and also gives some idea to the user, if involved in this activity.

The user was involved by supplying the relevant information of the past and the system was tested on that basis, for the accuracy of the system.

The main objectives of the System Testing are –

- To ensure the operation of the system is as per specification
- To make sure that the system meets user requirements during operation
- To verify that control incorporated in system function as intended
- To cross check that when current inputs are fed to the system the outputs are correct
- To make sure that during the operations, incorrect input processing and output will be deleted. Testing is comprehensive evolution of programs, manual procedures, computer operations and control.

Types of Testing

Testing includes following stages:

- **Unit Testing –**

  The primary goal of unit testing is to take the smallest piece of testable software in the application, isolate it from the remainder of the code, and determine whether it behaves exactly as you expect. Each unit is tested separately before integrating them into modules to test the interfaces between modules. Unit testing has proven its value; in that a large percentage of defects are identified during its use.

- **Form Testing –**

  In test stage, all forms are tested to check whether there are any errors in any of them. It is also checked whether all the validations are working correctly or not. I tested all the forms in my system against all the kinds of inputs and checked for all the validations.

- **System Testing –**

  Testing the software system or software application as a whole is referred as System Testing of the software. System testing of the application is done on complete application software to evaluate software's overall compliance with the business / functional / end-user requirement. In system testing, software test professional aims to detect defects or bugs both within the interfaces and also within the software as a whole.

Test Cases

1.Test Case For Login Form

Test Case No	1
Test Case Name	To test functionality of login form
Prerequisite	Login form should get loaded
Objective	To find out bugs in login form

Test Case Id	Test Case Name	Test Description	Test Steps	Expected Result	Actual Result	Pass/ Fail
1	Verifying username	Verify username	Enter Username with less than 6 characters.	It should display error message “Invalid username”	It displays error message “Invalid username”	Pass
2	Verifying username	Verify username	Enter username with 6 characters	It should display home page	It displays home page	Pass
3	Verifying username	Verify username	Enter username with 15 characters	It should display error message “Invalid username”	It displays home page	Fail
4	Verifying username	Verify username	Enter username with special characters	It should display error message “Special characters are not allowed”	It displays error message “Special characters are not allowed”	Pass
5	Verifying Password	Verify Password	Enter Password with less than 6 charact	It should display error message “Invalid Passwor	It displays error message “Invalid Passwor	Pass

			ers	d”	d”	
6	Verifying Password	Verify Password	Enter Password greater than 10 characters	It should display error message “Invalid Password”	It displays error message “Invalid Password”	Pass
7	Verifying Password	Verify Password	Enter Password of 6 characters	It should display home page	It displays home page	Pass
8	Verifying Password	Verify Password	Enter Password with special characters	It should display error message “Special characters are not allowed”	It displays home page	Fail
9	Verifying username and Password	Verify username and Password	Enter Username and password correct	It should display message “welcome user”	Displays message “welcome user”	Pass
10	Verifying username and Password	Verify username and Password	Enter correct Username and wrong password correct	It should display error message “Invalid Password”	It displays error message “Invalid Password”	Pass

2.Test Case For Registration Form

Test Case No	2
Test Case Name	To test functionality of registration form
Prerequisite	registration form should get loaded
Objective	To find out bugs in registration form

Test Case Id	Test Case Name	Test Description	Test Steps	Expected Result	Actual Result	Pass/Fail
1	Verifying Student Name	Verify Student Name	Enter Student name with digits	It should display error message “Invalid student name can’t contain digits”	It displays error message “Invalid student name can’t contain digits”	Pass
2	Verifying Student Name	Verify Student Name	Keep Student name field blank	It should display error message “Field is mandatory”	It displays error message “Field is mandatory”	Pass
3	Verifying Contact No	Verify Contact No	Keep Contact No field blank	It should display error message “Field is mandatory”	It does not display error message	Fail
4	Verifying Contact No	Verify Contact No	Enter Contact No with characters	It should display error message “Invalid Contact No can’t contain characters”	It displays error message “Invalid Contact No can’t contain characters”	Pass
5	Verifying Contact No	Verify Contact No	Enter Contact No correct	It should display message “valid	It displays message “valid Contact	Pass

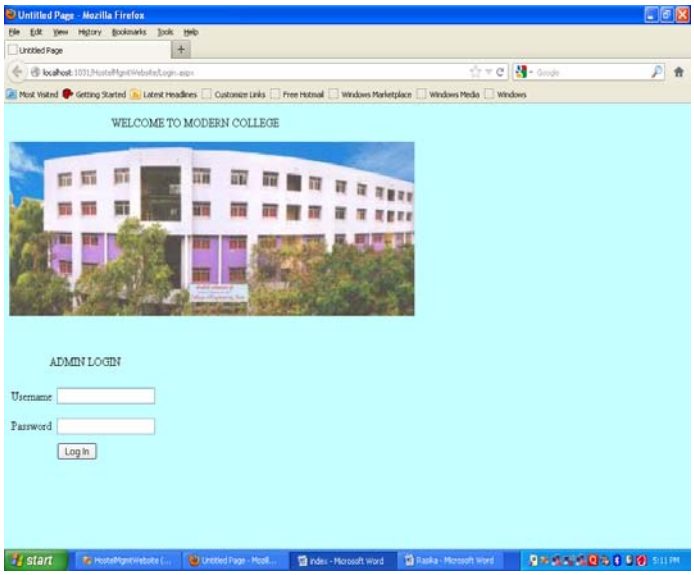
			with length10	Contact No”	No”	
6	Verifying Email Id	Verify Email Id	Enter Email Id without @ character	It should display error message “Invalid Email Id”	It displays error message “Invalid Email Id”	Pass
7	Verifying Email Id	Verify Email Id	Enter correct Email Id	It should display message “valid Email Id”	It displays message “valid Email Id”	Pass
8	Verifying Guardian Name	Verify Guardian Name	Keep Guardian Name field blank	It should display error message “Field is mandatory”	It displays error message	Pass
9	Verifying Guardian Contact no	Verify Guardian Contact no	Keep Guardian Contact no field blank	It should display error message “Field is mandatory”	It displays error message	Pass
10	Verifying Parent Contact no	Verify Parent Contact no	Keep Parent Contact no field blank	It should display error message “Field is mandatory”	It displays error message	Pass

Chapter 4

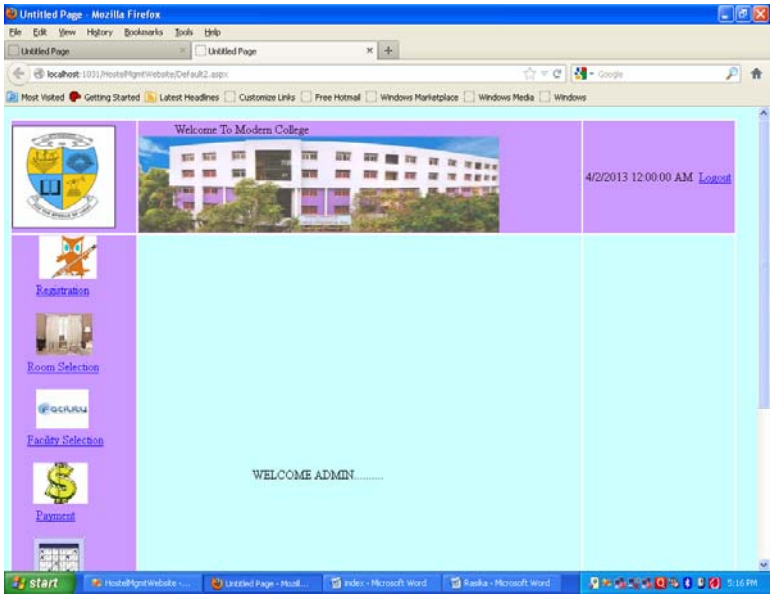
USER MANUAL

4.1 User Manual

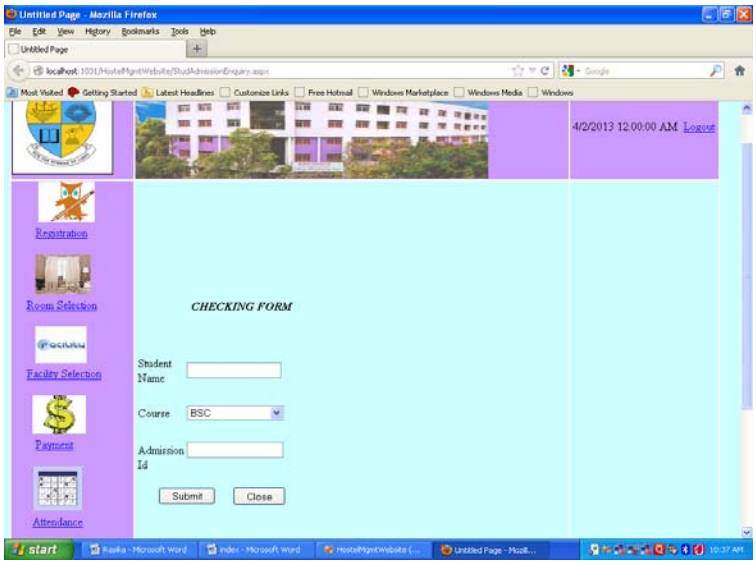
The User Manual is prepared reflexively because it is an item that must accompany every system. Manual is given so that there is quick reference about the system package with the menu given study of overall system.



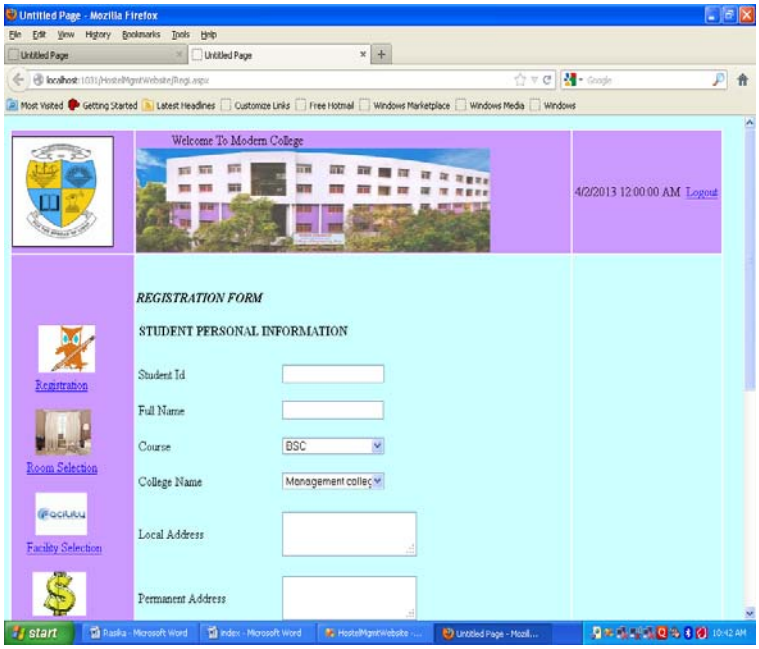
This is first page of application. It provides admin login form. Admin has to give username and password here, then it is validated from database and if validate then only admin will proceed forward.



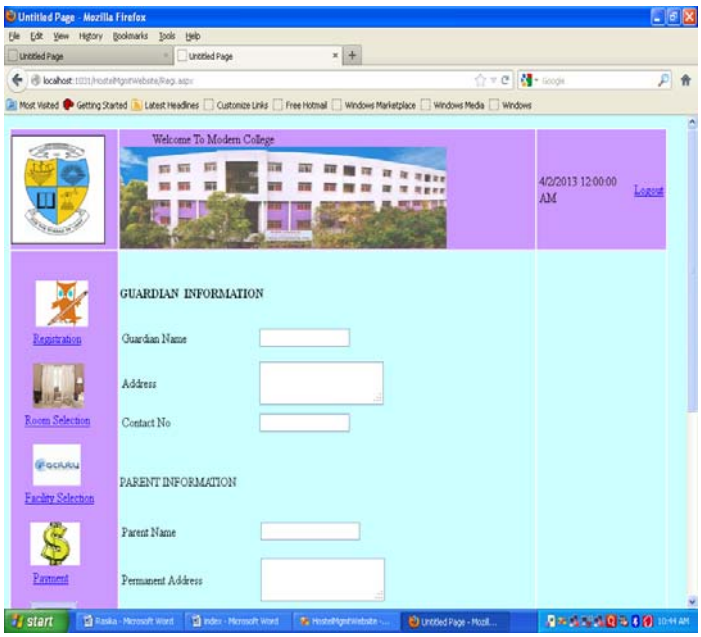
After admin login, this is home page. By selecting options from menu admin can proceed.



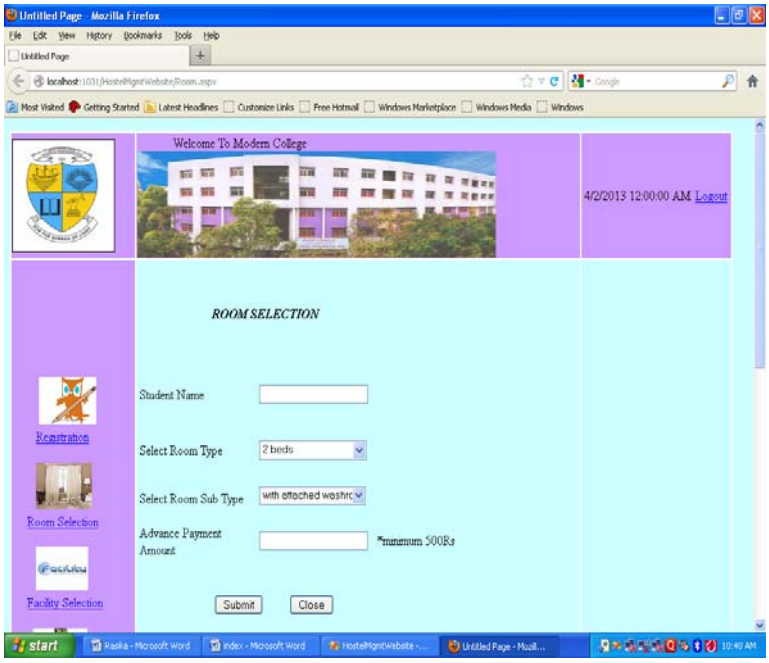
This is checking form. Here student name, course and admission id must be provided by user. Student is from same college or not gets checked through this form.



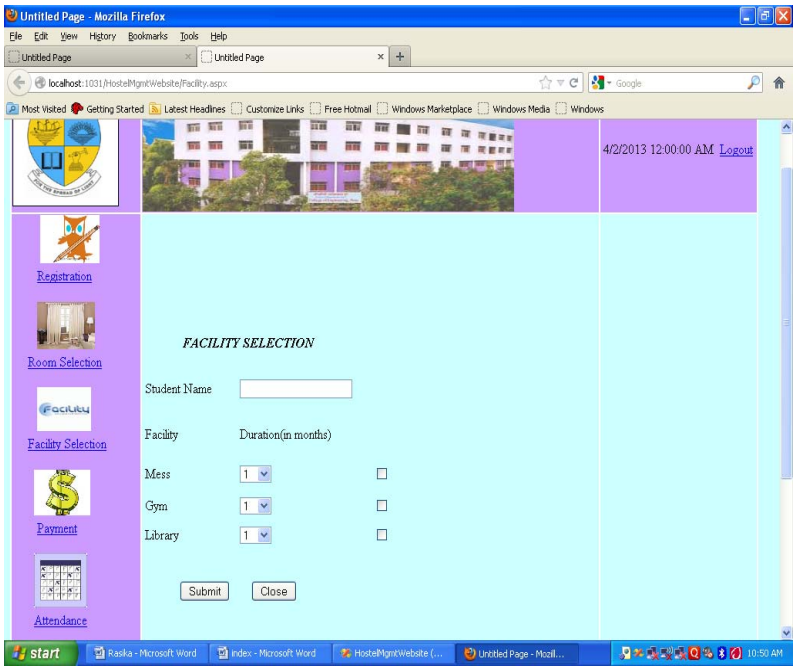
After checking form, registration form is given to student. Here student personal information like name, address, birth date, and course is taken. Some fields like contact no, name, address, age are mandatory fields.



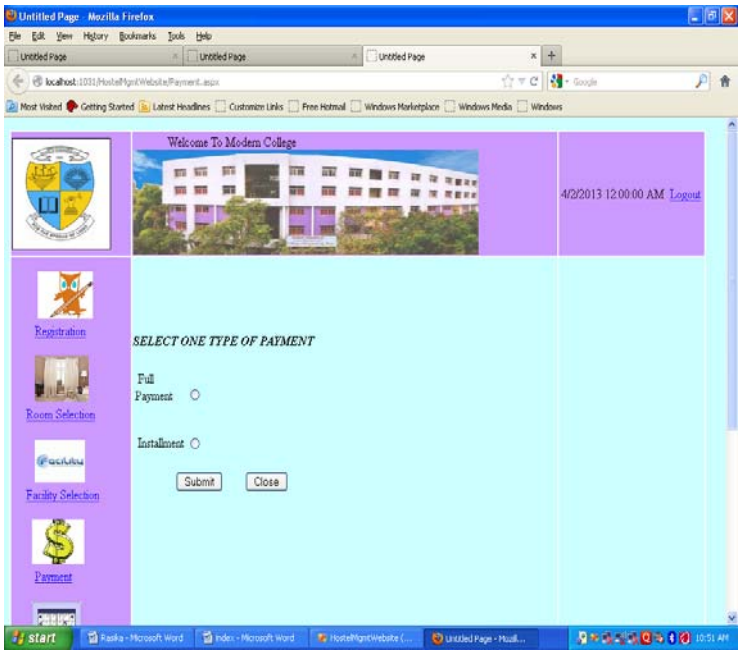
Here student guardian and parent information is accepted. It is mandatory to fill this information.



After registration, student should select the room according to types of rooms shown through drop down lists. Here student should mention how much advance payment he is going to pay. According to room selection available rooms information will be given and student has to select one room from it.

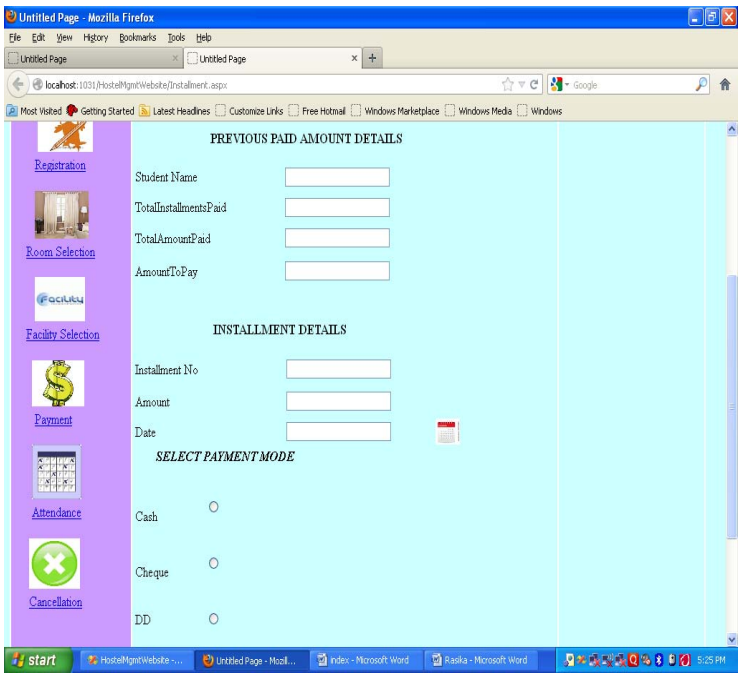


Here student has to select facilities and durations of facilities.

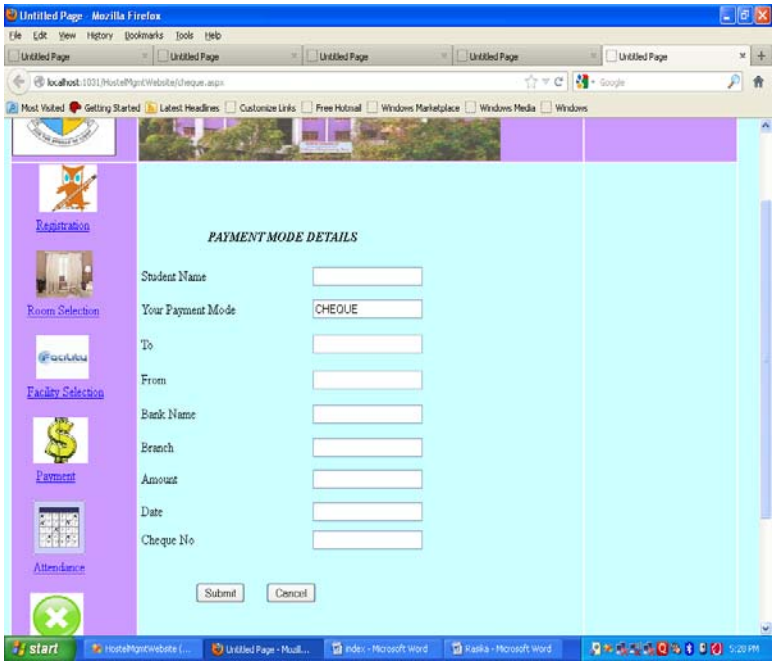


According to room and facilities selected payment is calculated. Through this form student has to select his payment type.

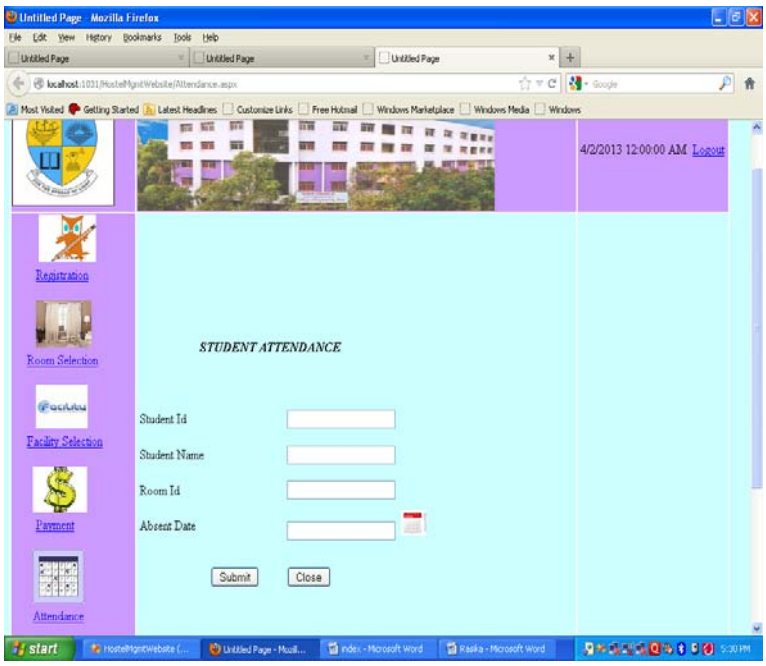
If student selects full payment, then he has to fill full payment form in which amount should be given and student has to select mode of payment.



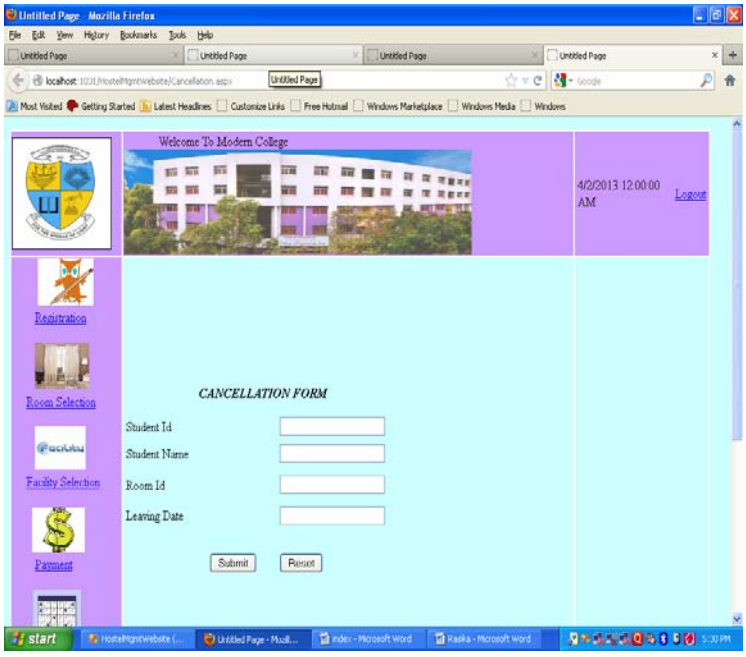
If student selects installment type payment then above form should be filled by him. Here installment no, amount and date is mandatory. Student has to select his mode of payment. If student selects cash payment then he has to give amount of payment through cash form.



If student selects cheque or DD payment then he has to give details like bank, branch, cheque/DD to, from, amount etc.



Admin can mark absentee of student by giving student name, room id and absent date.



Student can cancel admission by providing student id, room id and leaving date through above form.

4.2 Operation Manual/Menu Explanation

This is stand alone system. So admin does all the jobs. After admin login admin can do following activities.

- Student Registration

  The student is provided with the registration form if and only if he is from same college. Here student enters his basic details like name, address, birth date, contact details. Student has to give parent and guardian details through registration form.

- Room Selection

  The student gives his requirements and system give available room details. From available rooms student can select a room of his choice.

- Facility Selection

  Student can select facilities here and give duration for each facility.

- Payment

  Here payment is calculated according to room and facilities selected.
  Student has to select one of the payment types and modes.

- Attendance

Here admin marks absentee of student according to room type.

- Cancellation

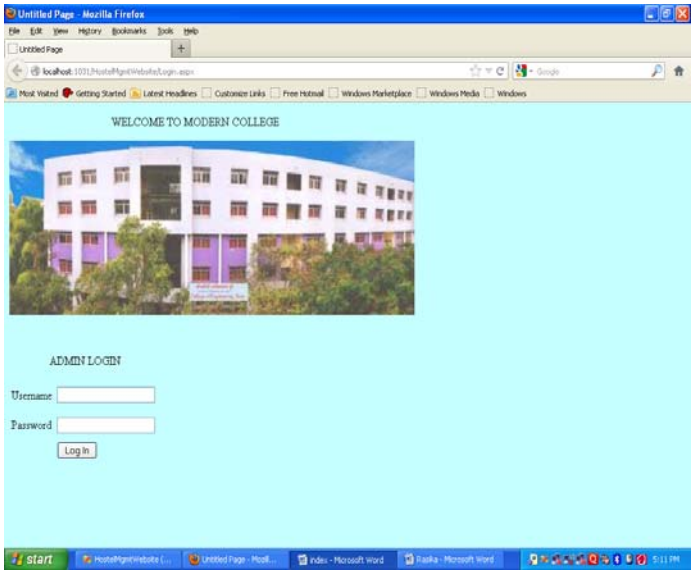
  Student cancels admission. Payment is refunded to him.

- Reports

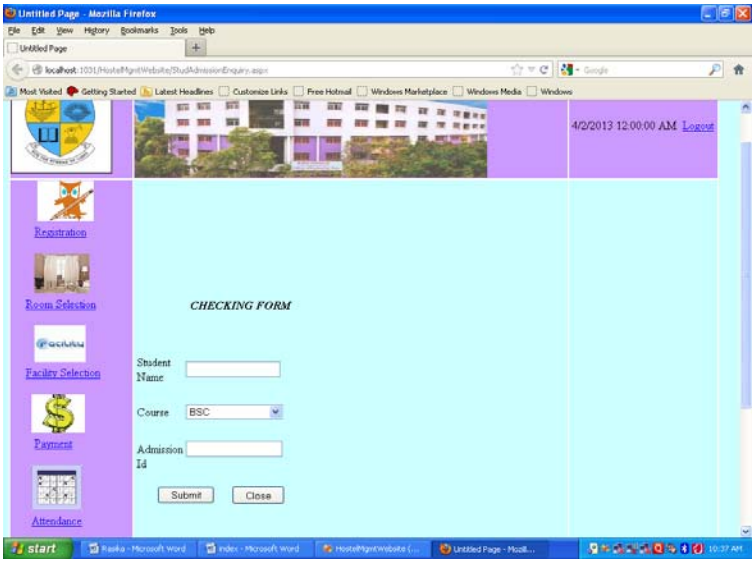
  Monthly attendance, room availability such reports can be generated here.

4.3 Forms and Report Specification

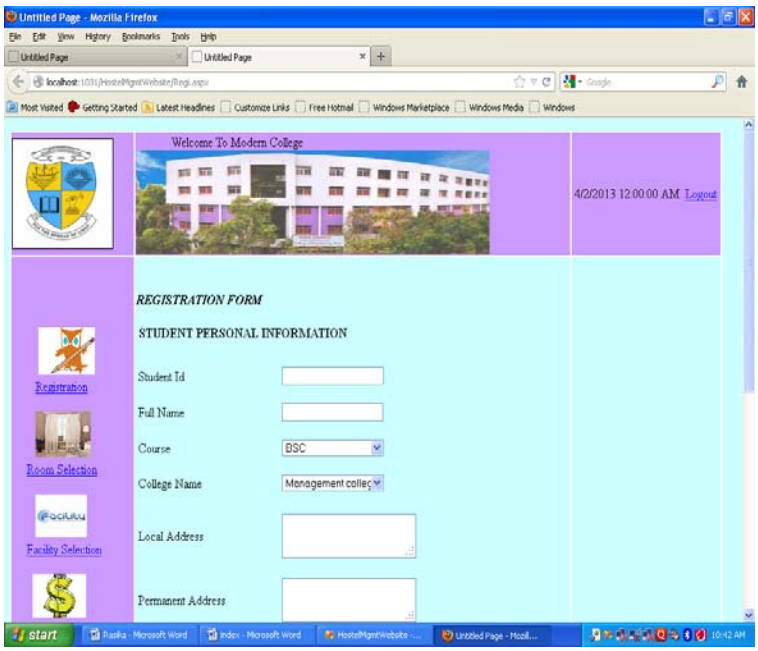
Form Specification



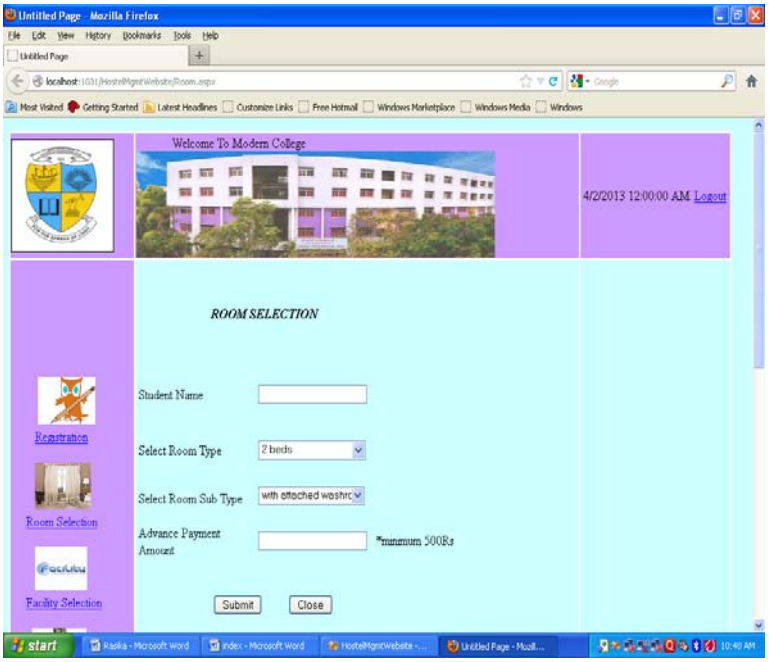
This is first page of application. It provides admin login form. Admin has to give username and password here, then it is validated from database and if validate then only admin will proceed forward.



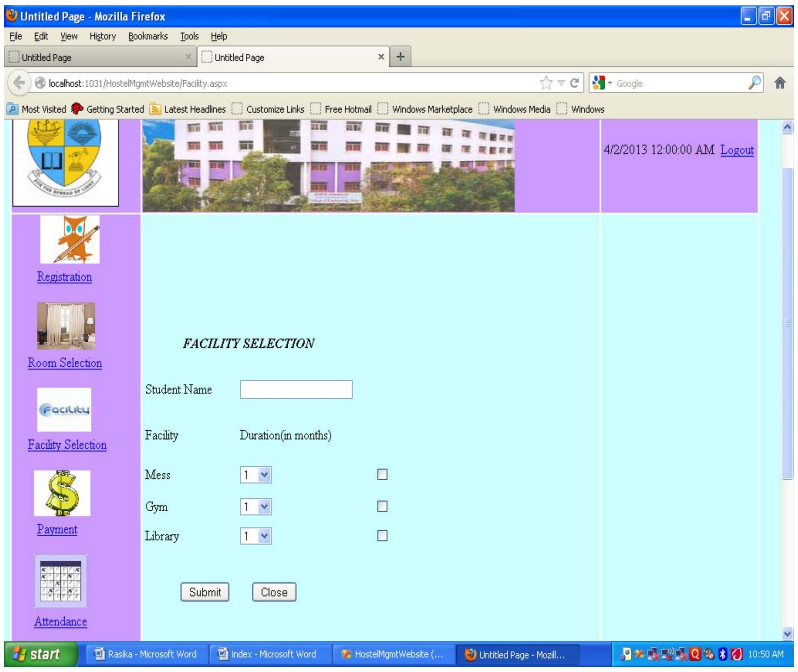
This is checking form. Here student name, course and admission id must be provided by user. Student is from same college or not gets checked through this form.



Here student personal information like name, address, birth date, and course is taken. Some fields like contact no, name, address, age are mandatory fields. Here student guardian and parent information is accepted



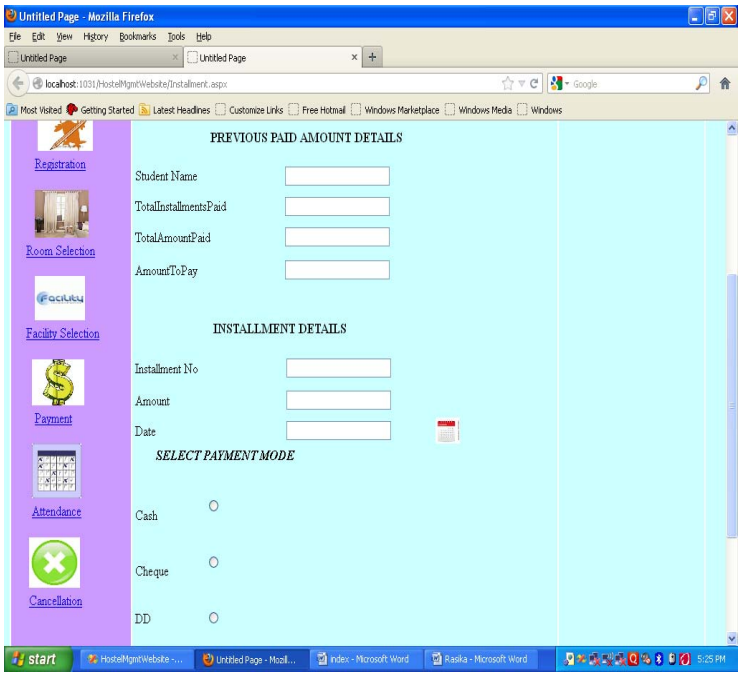
student should select the room according to types of rooms shown through drop down lists. Here student should mention how much advance payment he is going to pay.



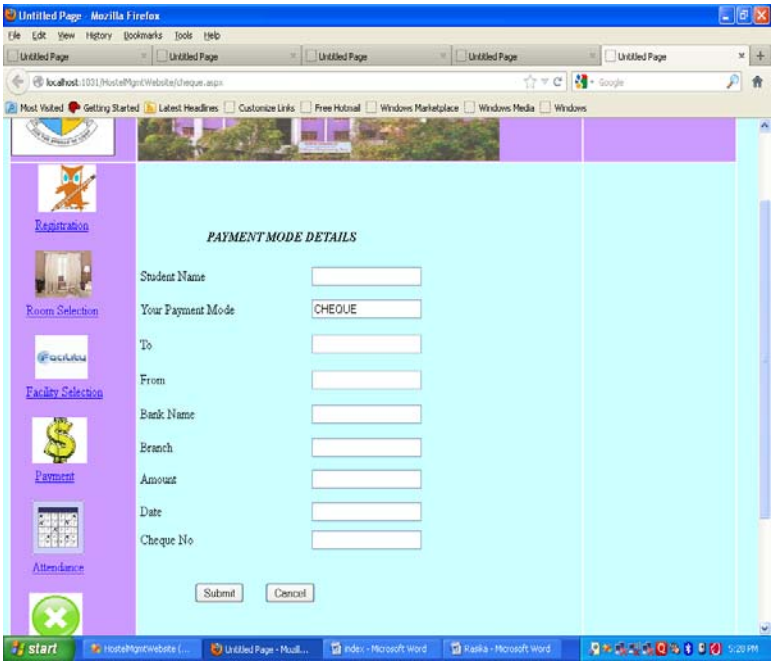
Here student has to select facilities and durations of facilities.

Through Payment type form student has to select his payment type.

If student selects full payment, then he has to fill full payment form in which amount should be given and student has to select mode of payment.



If student selects installment type payment then above form should be filled by him. Here installment no, amount and date is mandatory. Student has to select his mode of payment. If student selects cash payment then he has to give amount of payment through cash form.



If student selects cheque or DD payment then he has to give details like bank, branch, cheque/DD to, from, amount etc.

Similarly admin can mark absentee by attendance form

Student can give leave application through leave application form

Student can cancel admission using cancellation form.

Report specification

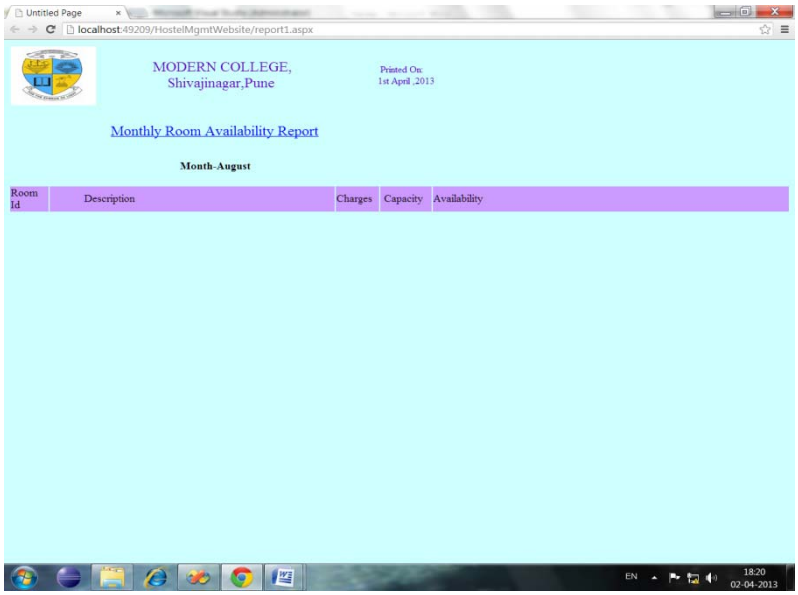
Reports are generated for summarizing the information and to have a quick look to the information.

Reports are:

1.Quarterly Registration report

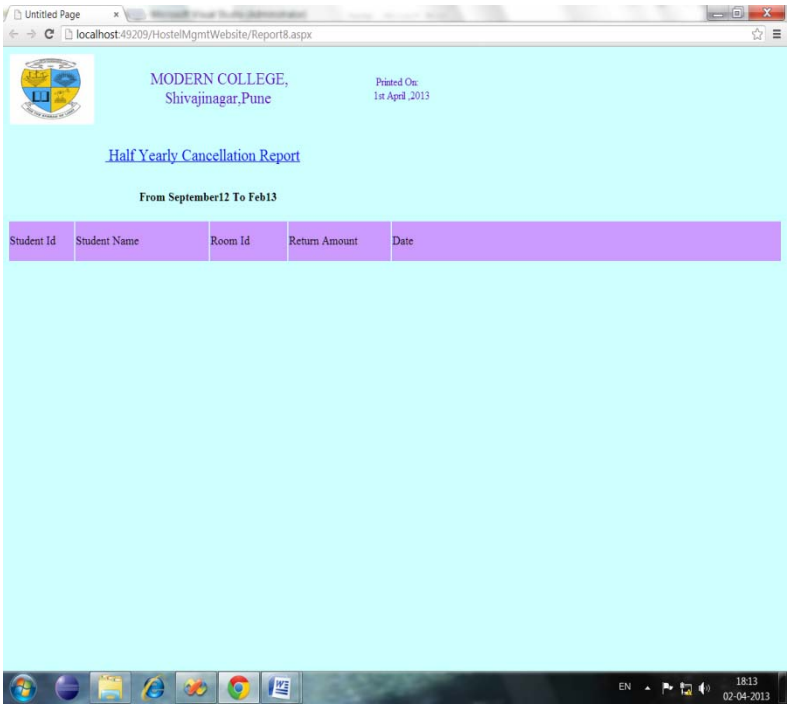
In this report registrations done in the particular quarter is shown.

Monthly room availability report



In the above report room availability is checked in every month.

Half yearly cancellation report



Cancellations occur in the half year can be get through above report.

Like this many more reports are generated they are as follows,

Monthly Room Type wise Availability Report

Student wise Facility Report

Student wise Full Payments Report

Monthly Installments Dues Report

Monthly Leave Application Report

Room wise Monthly Attendance Report

Half Yearly Cancellation Report

Drawbacks and Limitations

Drawbacks and Limitations

No system can be called ideal system as it is developed by sharing ideas of limited people, with limited resources and within limited time schedule.

- Room map is not provided.
- Student cannot get the actual location of room when selecting a room.
- Security features must be enhanced.

Proposed Enhancements

Proposed Enhancements

Any system which is developed can never be declared as complete.

“Hostel Management System” is developed to the current user specification and requirements.

There is wide scope for future enhancements in the system.

- When selecting room, map of available rooms should be provided for knowing room location with the room information.
- Admin will be provided with the dashboard showing current room availability.
- System needs to be tested more to find out any security gaps.
- Admin must get the pop ups of payment dues.

Conclusions

Conclusion

This stand alone system of “Hostel Management” will help a lot for the hostel.

This system will manage the user registration, room selection, facility selection automatically. Payment calculation is now a easy job using this automated system. Marking absentee is much easier as compared to manual system. Reports are easily generated telling the status of room, payment dues.

So this automated system is easy to use, less time consuming and in addition saves a lot of papers. The system fulfills all the user requirements.

Bibliography

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  - www.codeplex.com
  - MYSQL Tutorials

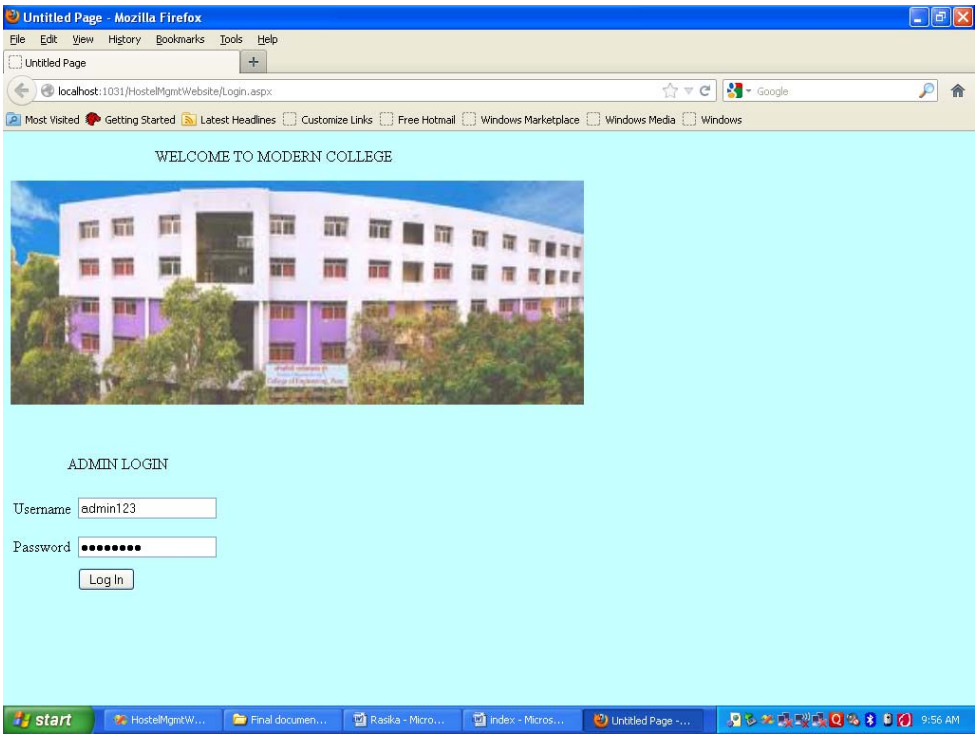
- **Book References**
  - ASP.NET Black book
  - ASP.NET complete reference
  - Object Oriented System Development

    -Ali Bahrami

ANNEXURES

Annexure 1: INPUT FORMS WITH DATA

Admin Login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Password
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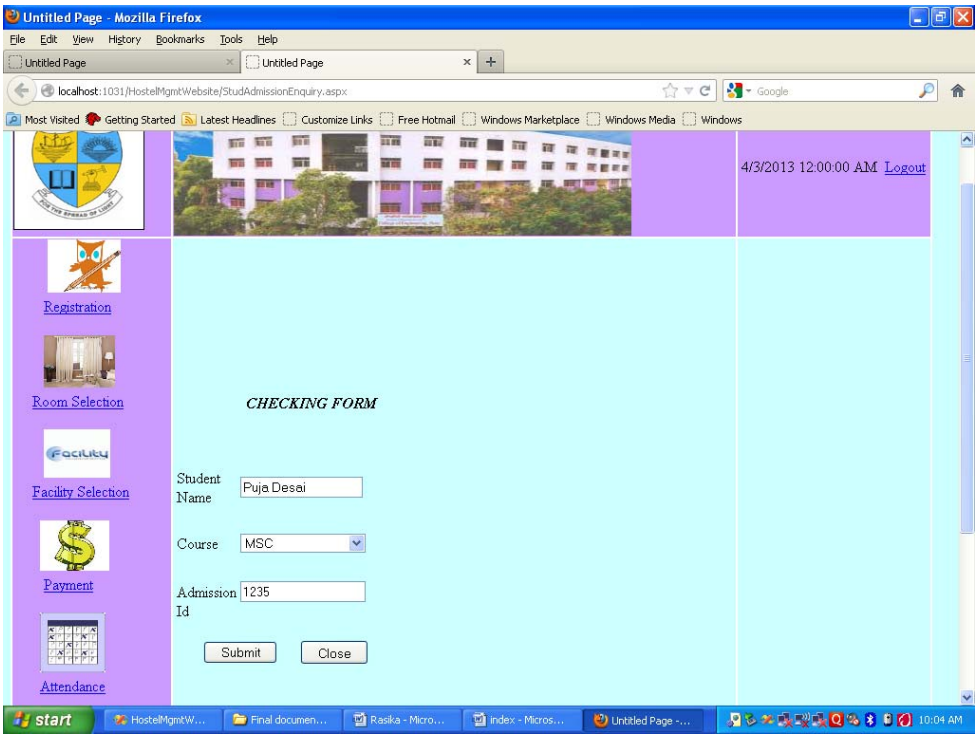
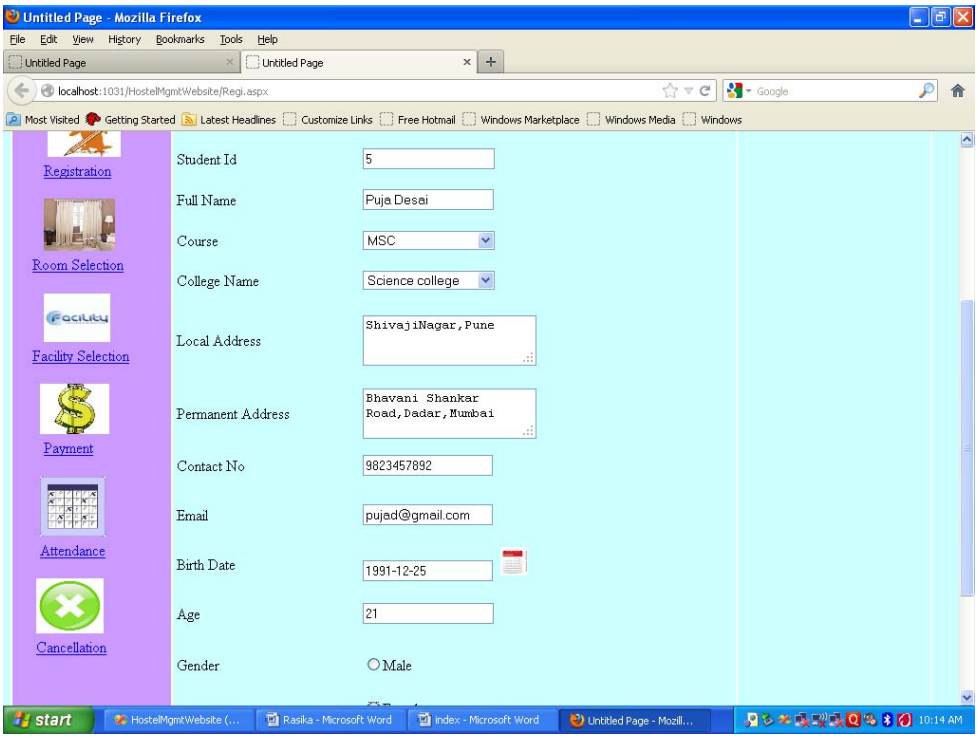
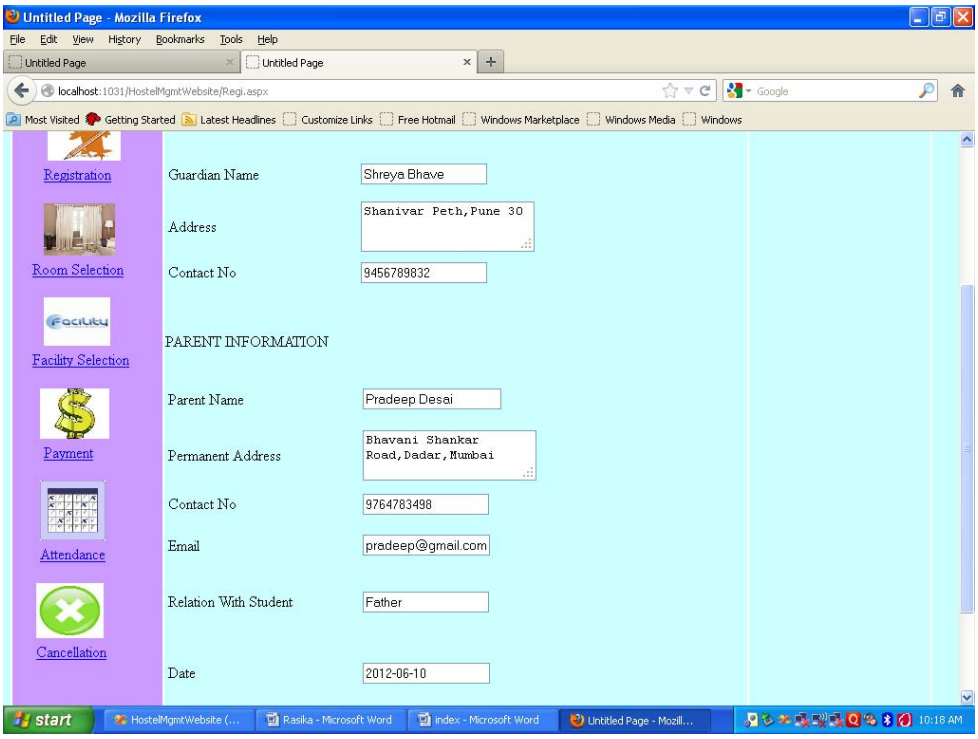
Checking Form



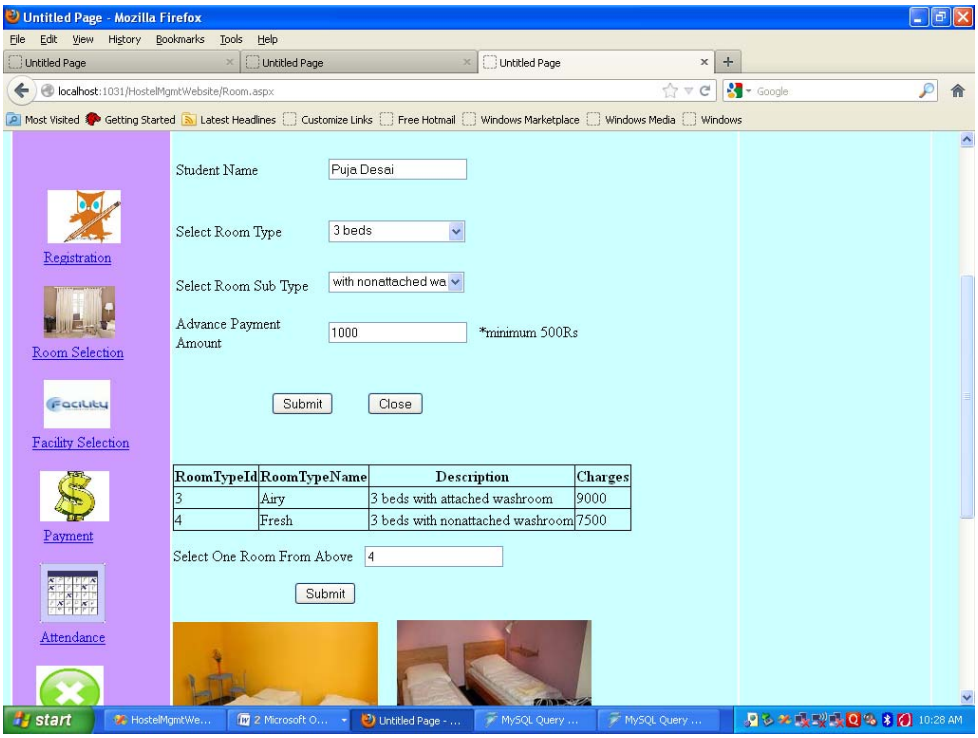
Registration Form



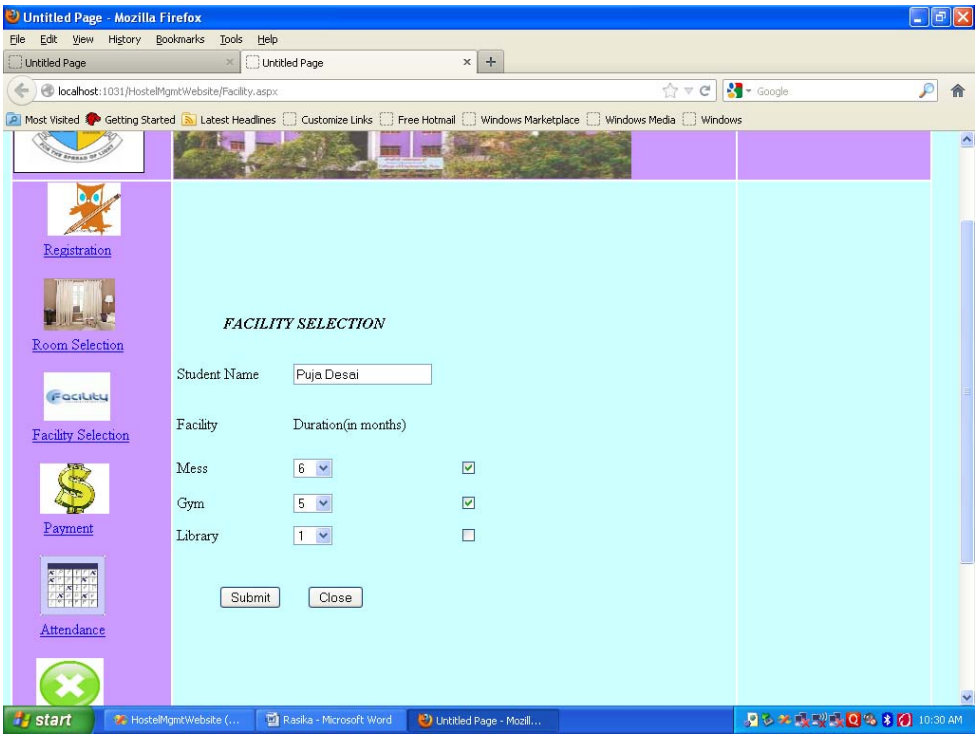
Registration Form



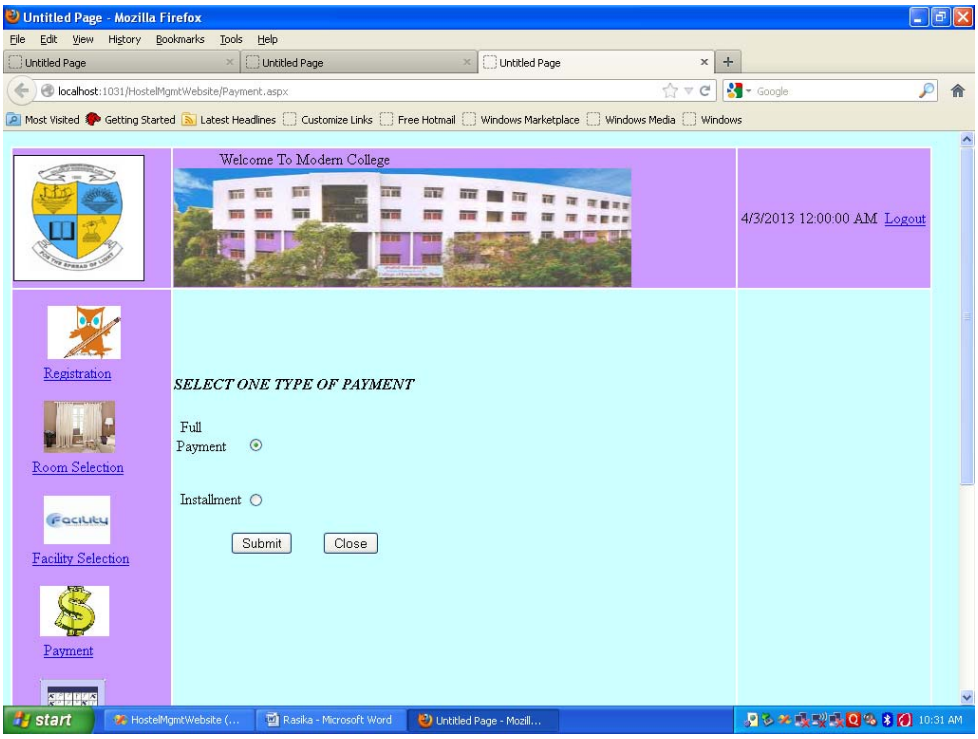
Room Selection



Facility Selection



Payment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Registration
Room Selection
Facility Selection
Payment
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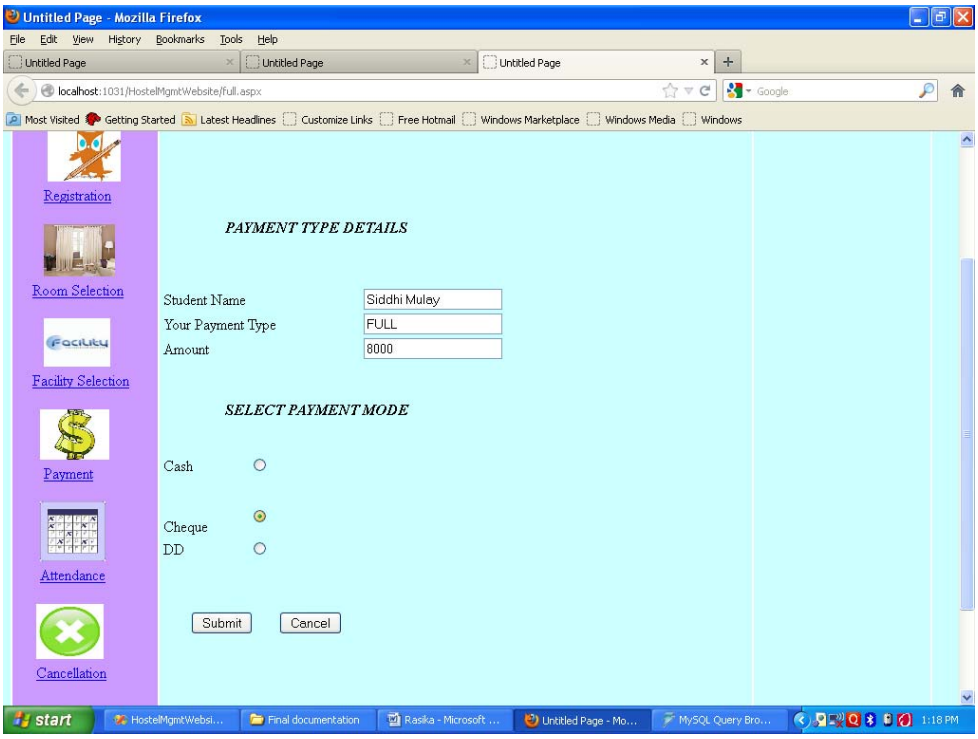
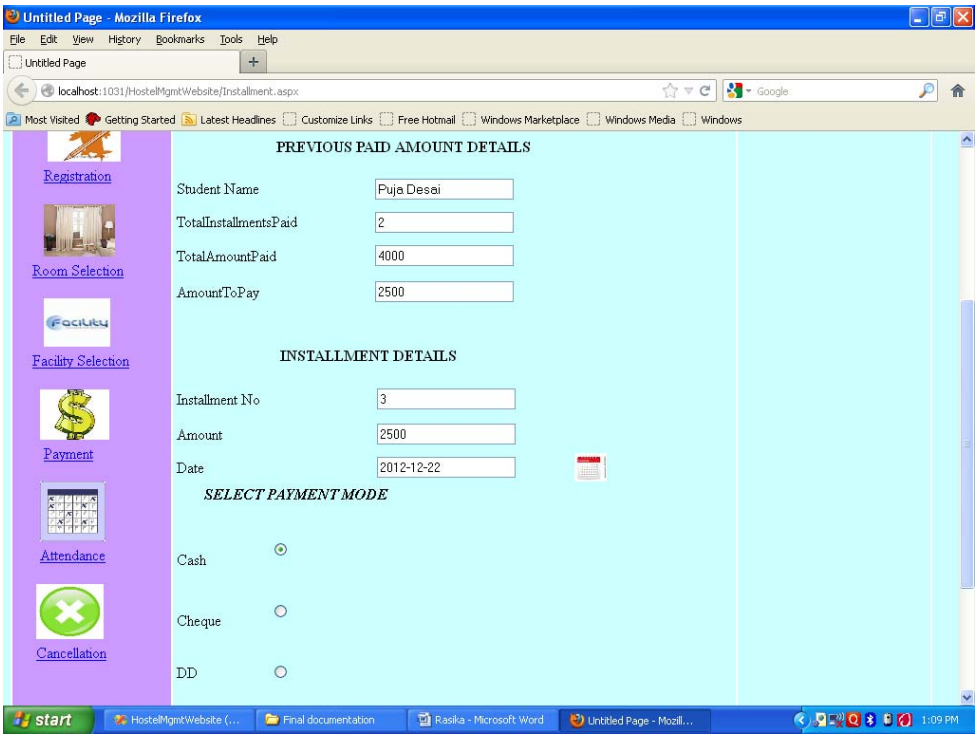
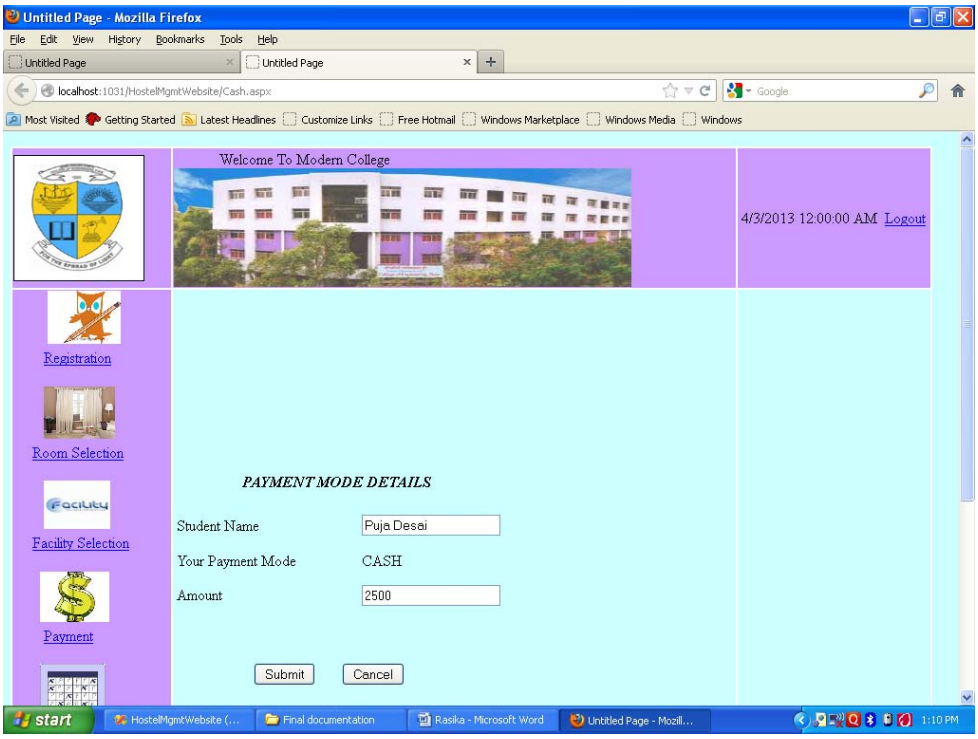
Payment Type-Full



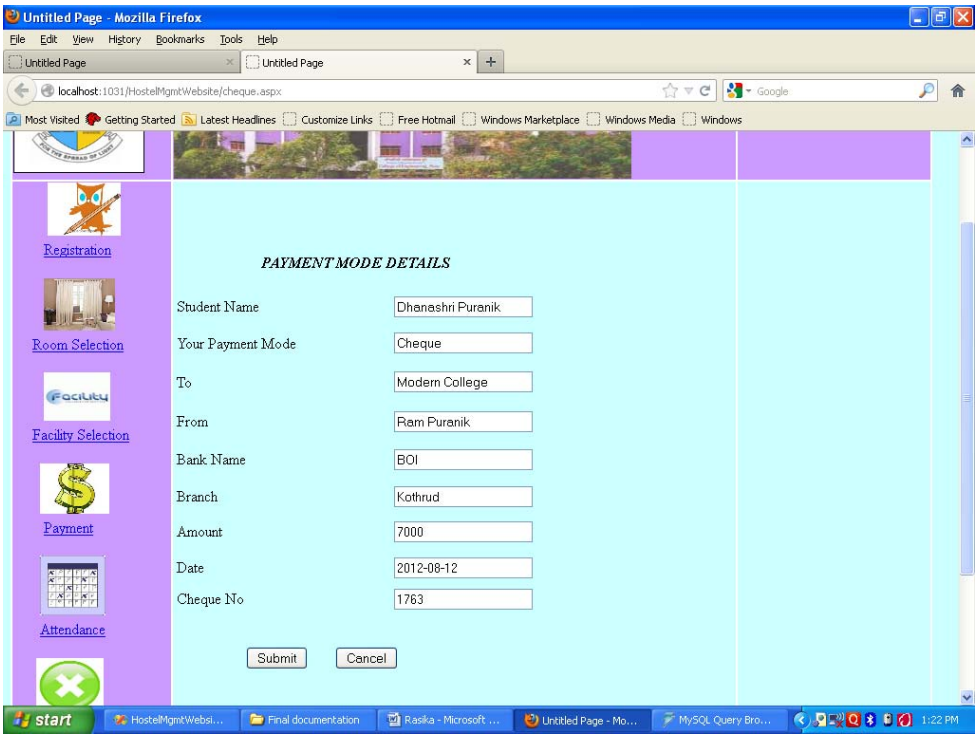
Payment Type-Installments



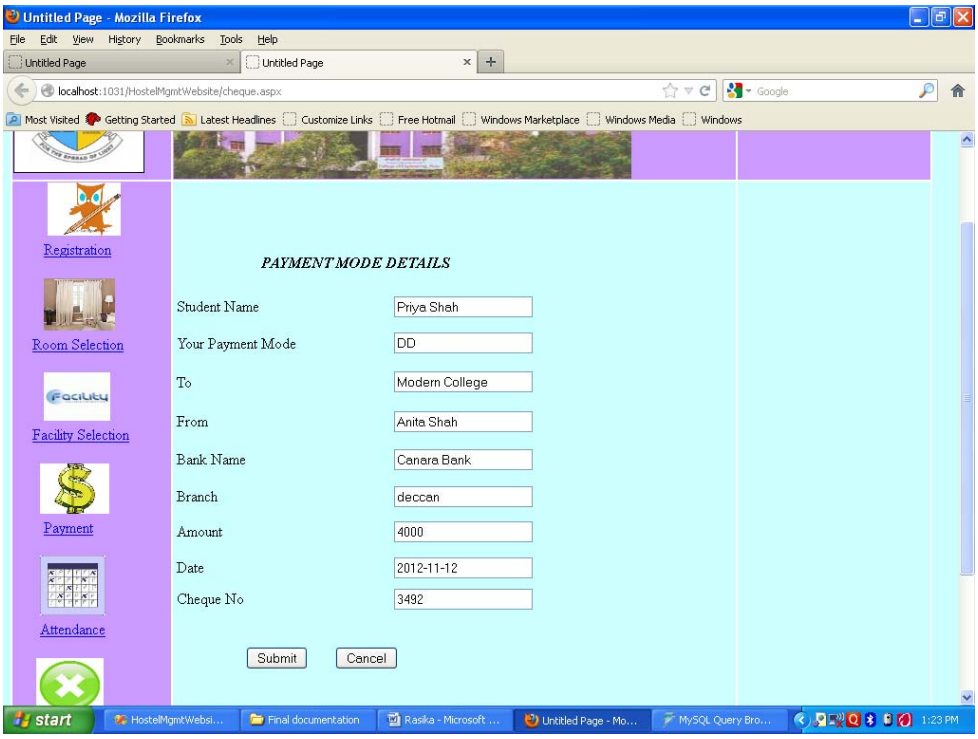
Payment Mode-Cash



Payment Mode-Cheque



DD Form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Registration
Room Selection
Facility Selection
Payment
Attendance
PAYMENT MODE DETAILS
Student Name Priya Shah
Your Payment Mode DD
To Modern College
From Anita Shah
Bank Name Canara Bank
Branch deccan
Amount 4000
Date 2012-11-12
Cheque No 3492
Submit
Cancel
start
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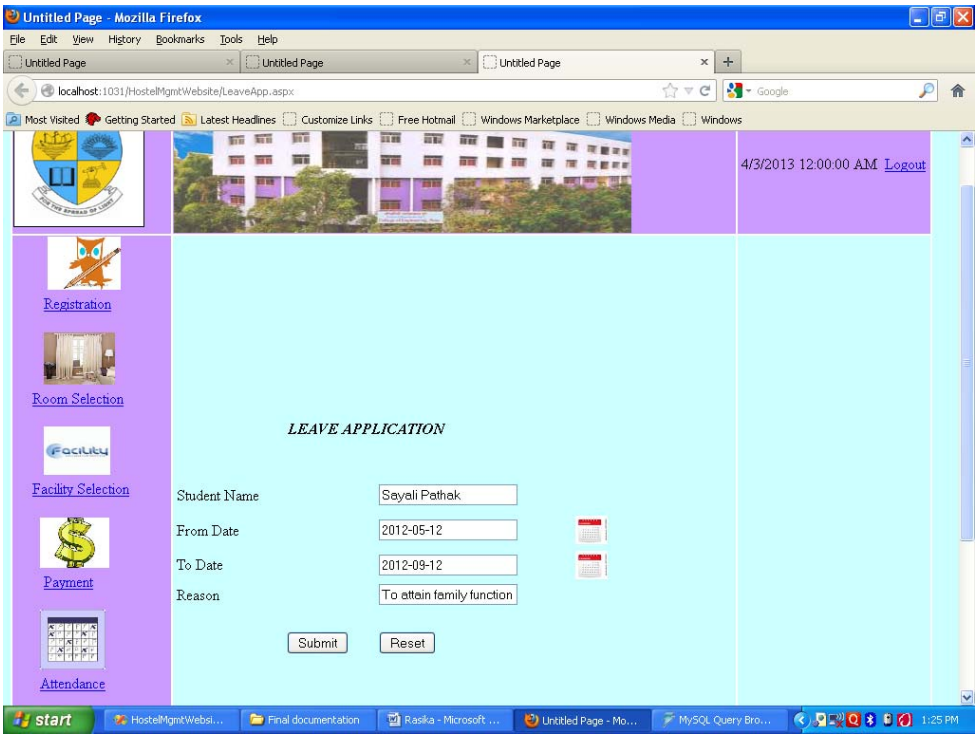
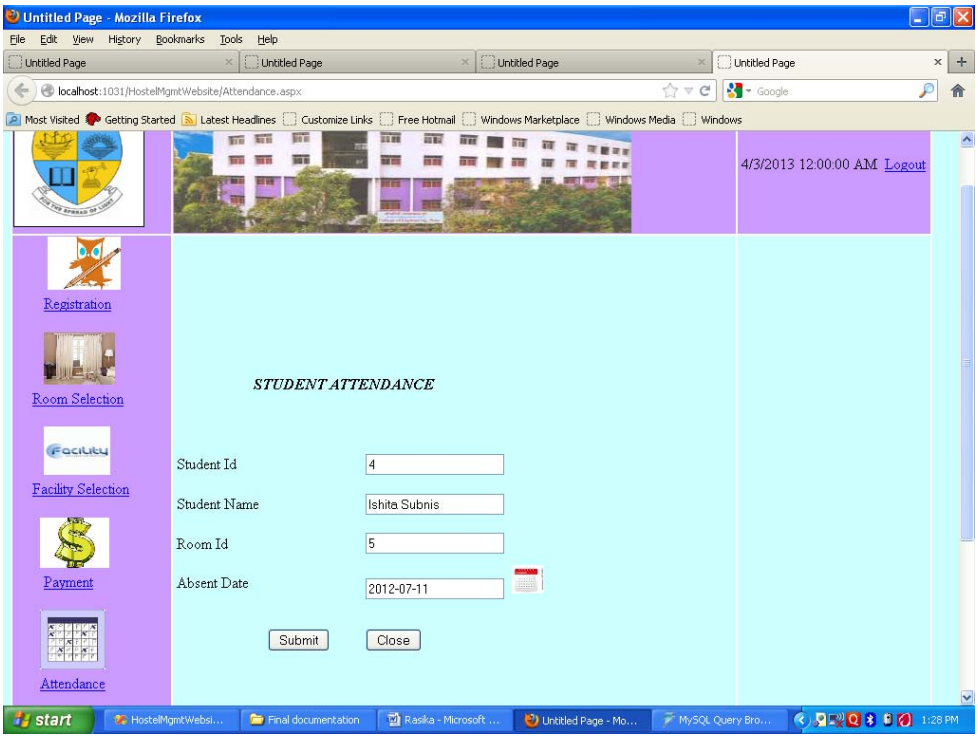
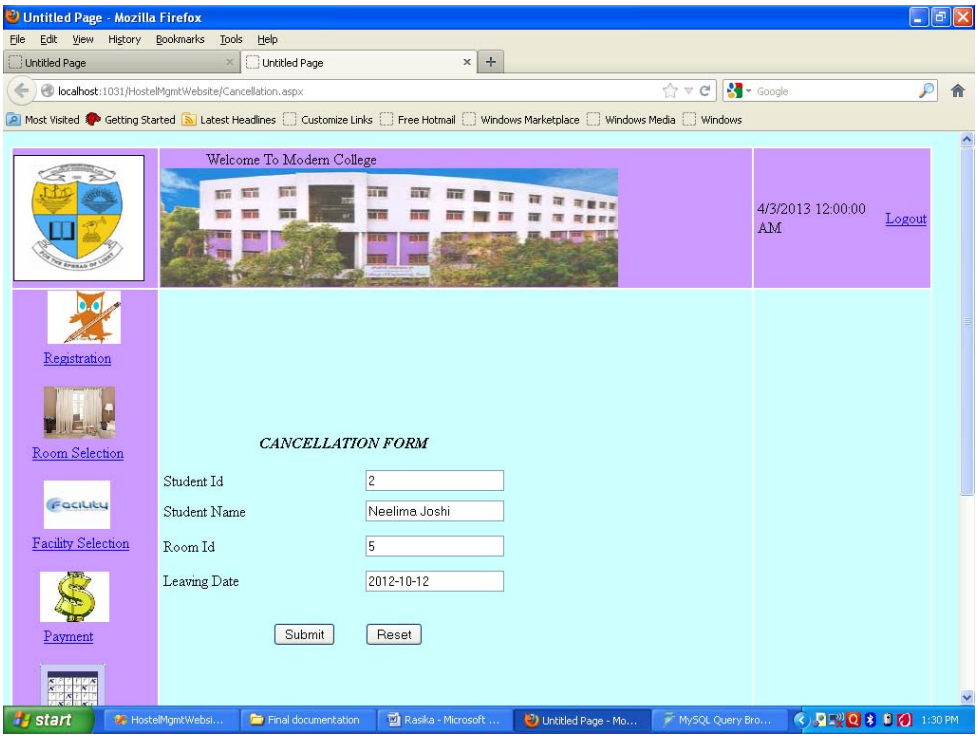
Leave Application Form



Attendance Form



Cancellation Form

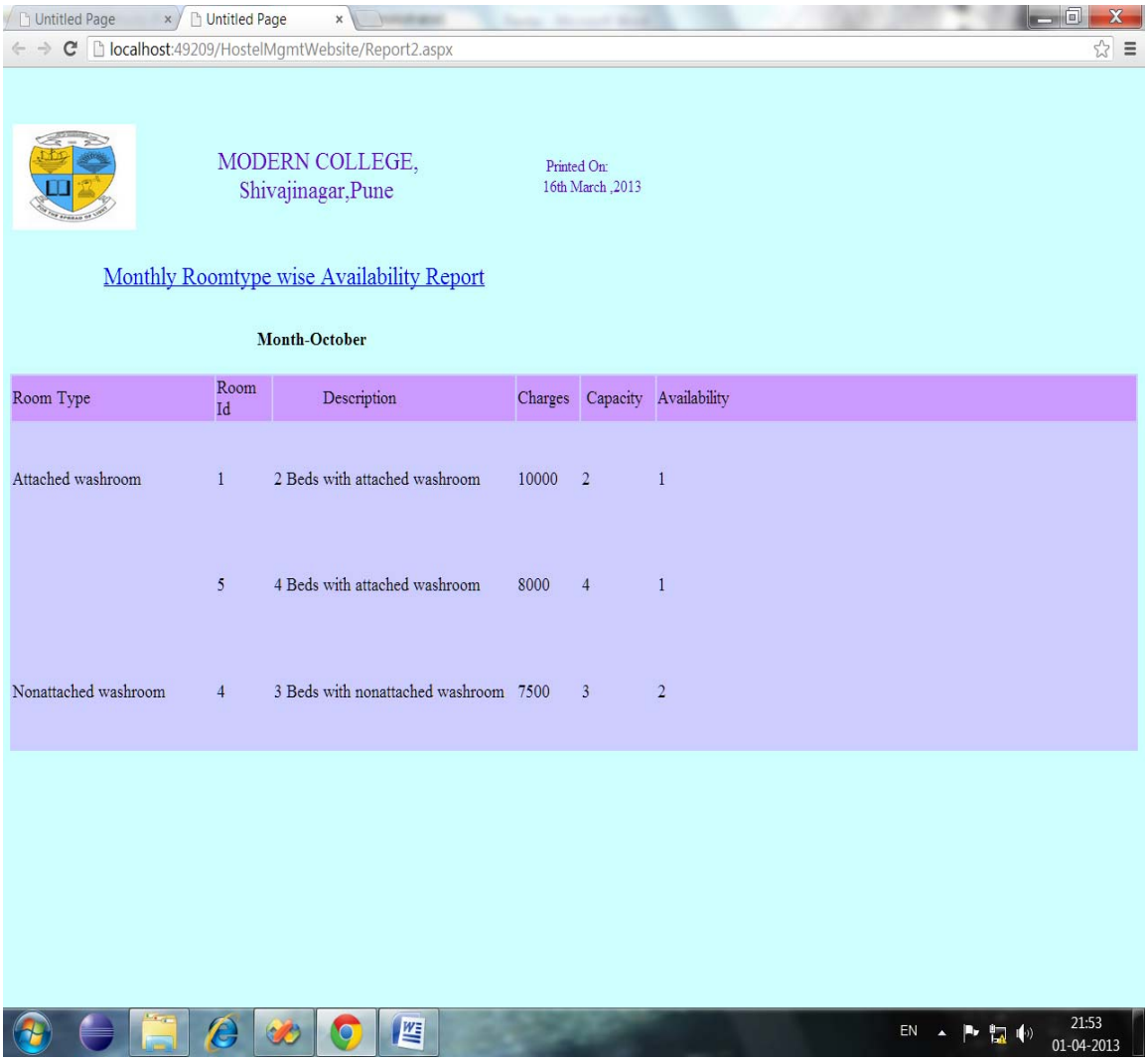


Annexure 2:

OUTPUT REPORTS WITH DATA

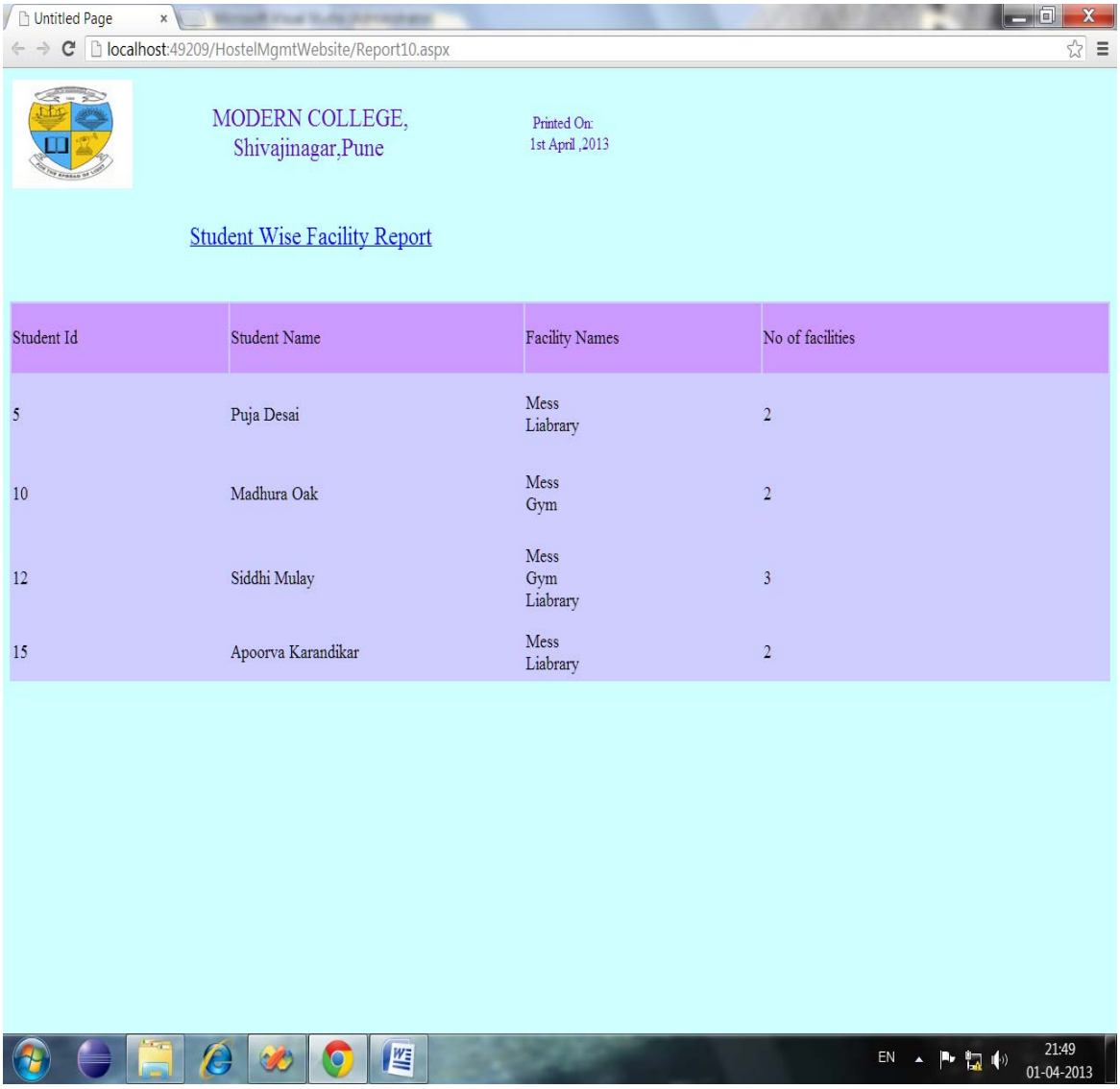
Quarterly Registration Report

Monthly Room type wise Availability Report



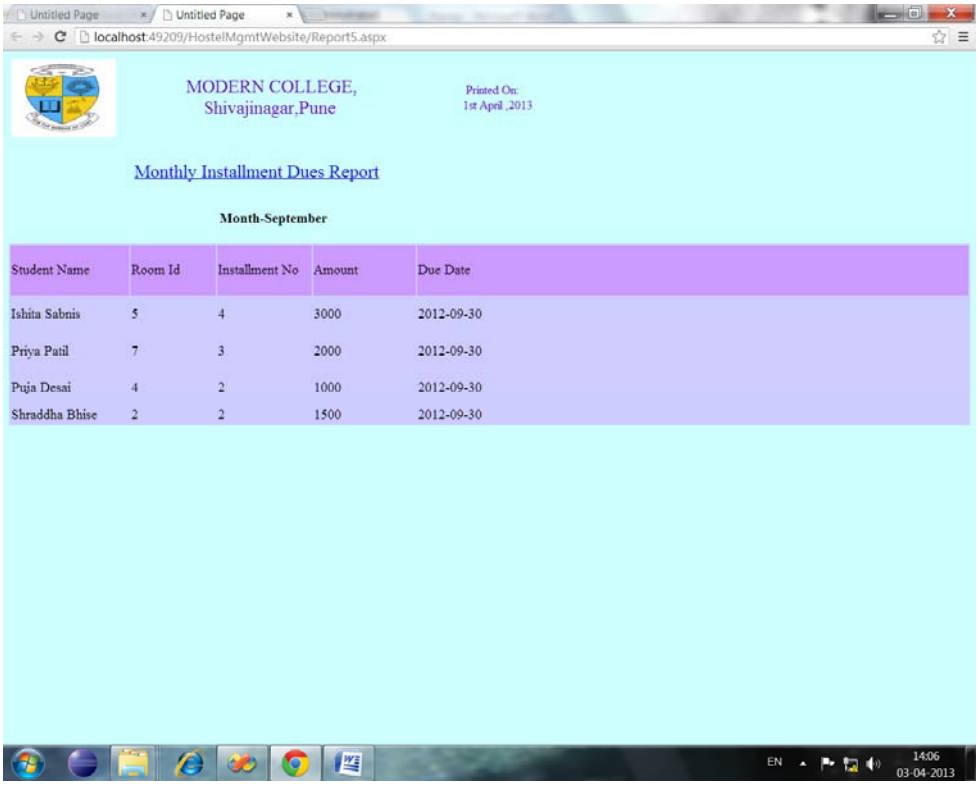
Monthly Room Availability Report

Student Wise Facility Report



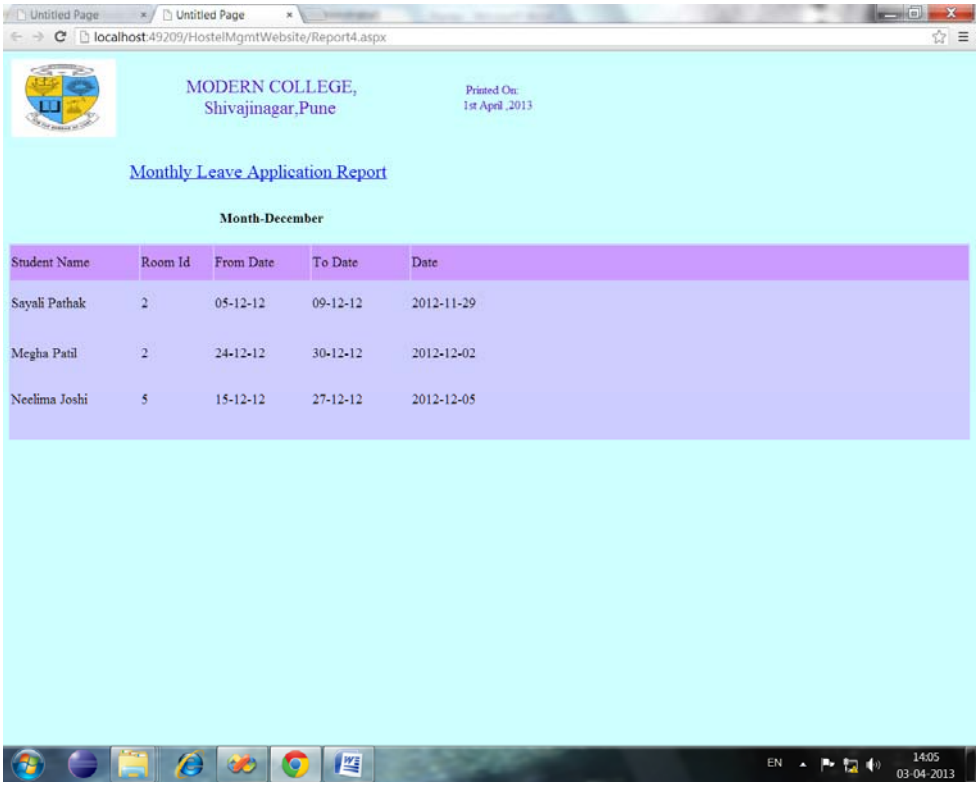
Facility Wise Student Report

Monthly Installment Dues Report



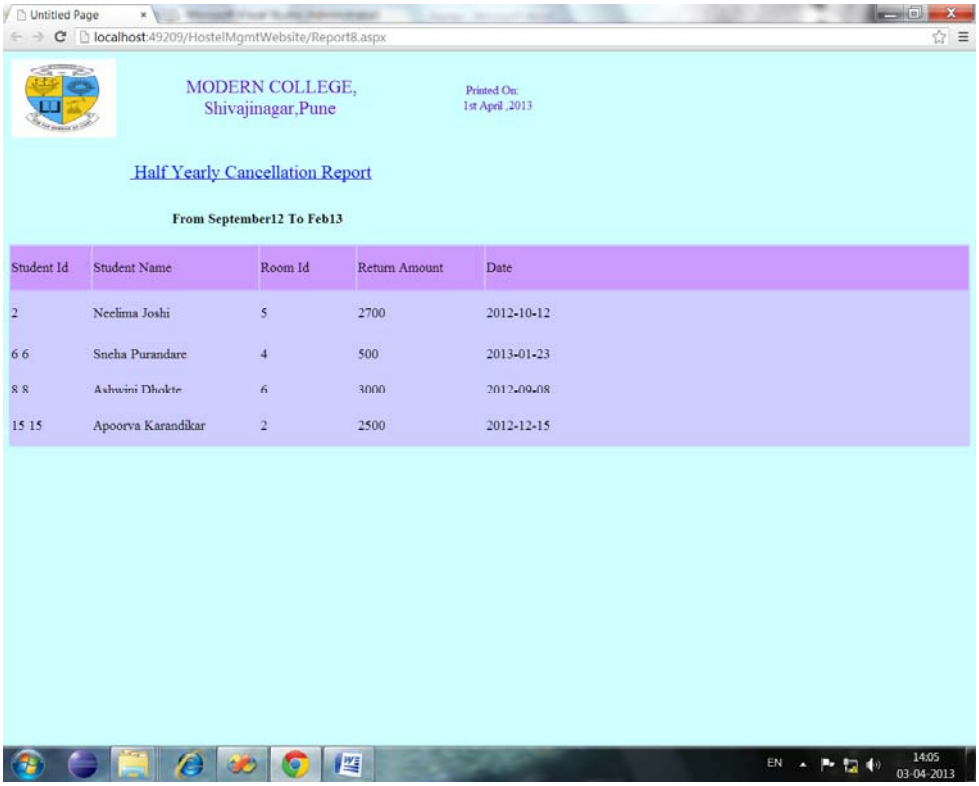
Student wise Full Payments Report

Monthly Leave Application Report



Room Wise Monthly Attendance Report

Half Yearly Cancellation Report



ANNEXURES: SAMPLE SOURCE CODE

```
using System;
using System.Collections;
using System.Configuration;
using System.Data;
using System.Linq;
using System.Web;
using System.Web.Security;
using System.Web.UI;
using System.Web.UI.HtmlControls;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Xml.Linq;
using System.Data.Odbc;

public partial class Room : System.Web.UI.Page
{

    OdbcConnection con = new OdbcConnection("Driver={MySQL ODBC 5.1
Driver};server=localhost;uid=root;database=hostel;port=3306;pwd=mysql");


   protected void Page_Load(object sender, EventArgs e)
   {

   }

   protected void DropDownList3_SelectedIndexChanged(object sender, EventArgs e)
   {
      String r = DropDownList2.SelectedValue;
      String t = DropDownList3.SelectedValue;
   }

   protected void Button2_Click(object sender, EventArgs e)
   {
      String select="select * from hostel.roomtype where
Description='"+DropDownList2.SelectedValue+"'+"'"+DropDownList3.SelectedValue+"'";
      OdbcCommand cmd = new OdbcCommand(select, con);
      con.Open();
      cmd.Connection = con;
      cmd.CommandType = CommandType.Text;
      cmd.CommandText = select;
      OdbcDataAdapter da = new OdbcDataAdapter();

      da.SelectCommand = cmd;
      DataSet ds = new DataSet();
```

```
        da.Fill(ds);
        GridView1.DataSource = ds;
        Page.DataBind();
        GridView1.DataSource = cmd.ExecuteReader(CommandBehavior.CloseConnection);



    }



}
```