

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



“ DBMS PROJECT ” - “HOSTEL MANAGEMENT SYSTEM”

Submitted to -

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INTRODUCTION

PROBLEM DEFINITION

This system is designed in favour of the hostel management which helps them to save the records of the students like their fees etc. It helps them from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about those ones who had left the hostel. All the hostels at present are managed manually by the hostel office. The Registration form verification to the different data processing is done manually. Thus, there are a lot of repetitions which can be easily avoided. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context. This project deals with the problems on managing a hostel and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly. We can improve the efficiency of the system, thus overcome the drawbacks of the existing system. We design this system of the hostel management especially for the college hostel, through this they cannot require so efficient person to handle and calculate the things. This system automatically calculates all the bills and issues the notifications for those students who are against some rules.

OBJECTIVES OF PROJECT

This software product the hostel management to improve their services for all the students of the hostel. This also reduces the manual work of the persons in admin panel and the bundle of registers that were searched when to find the information of a previous student, because through this system you can store the data of those students who had left the hostel. Through this you can check the personal profile of all the current students within few minutes the data base of the system will help you to check a particular one. The system will help you to check the mess bills of every student and the student's hostel dues. The students of the hostel will be recognized from the ID number allocated at the room rental time. In the best this system will improve the management work in the hostel.

- To automate every activity of the manual system, which increases its throughput.
- To provide a quick response with very accurate information as and when required
- To make the present manual system more interactive, speedy and user friendly
- To avail any information, whatever and whenever needed
- Reduce the cost of maintenance

Admin Panel

1.Admin Login

Admin can login through login form.

2. Admin Profile

Admin can manage his own profile. Admin can also change his password

3.Courses

Admin can create add course, edit courses and also delete the course

4. Rooms

Admin can create rooms and allots seater to particular rooms and assign the fees.

5. Registration

Admin can create student profile and allot the rooms

6. Manage the Registration

Admin can manage the all the student Profile. Take a printout of all profiles and delete the profile.

7. Forgot Password

Admin can also retrieve the password if admin forgot the password.

User Panel

1. **User Registration** -- User can register through user registration form
2. **User Login** -- User can login through login form
3. **Forgot Password** -- user can retrieve password through forgot password link
4. **User Dashboard**
5. **User Profile** -- User can manage own profile
6. **Book Hostel** -- User can book hostel
7. **Room Details** -- Booked Room Details
8. **Change Password** -- User Can change own password
9. **User access log** -- User can watch last login details

SYSTEM ENVIRONMENT

2.1 Hardware Configuration

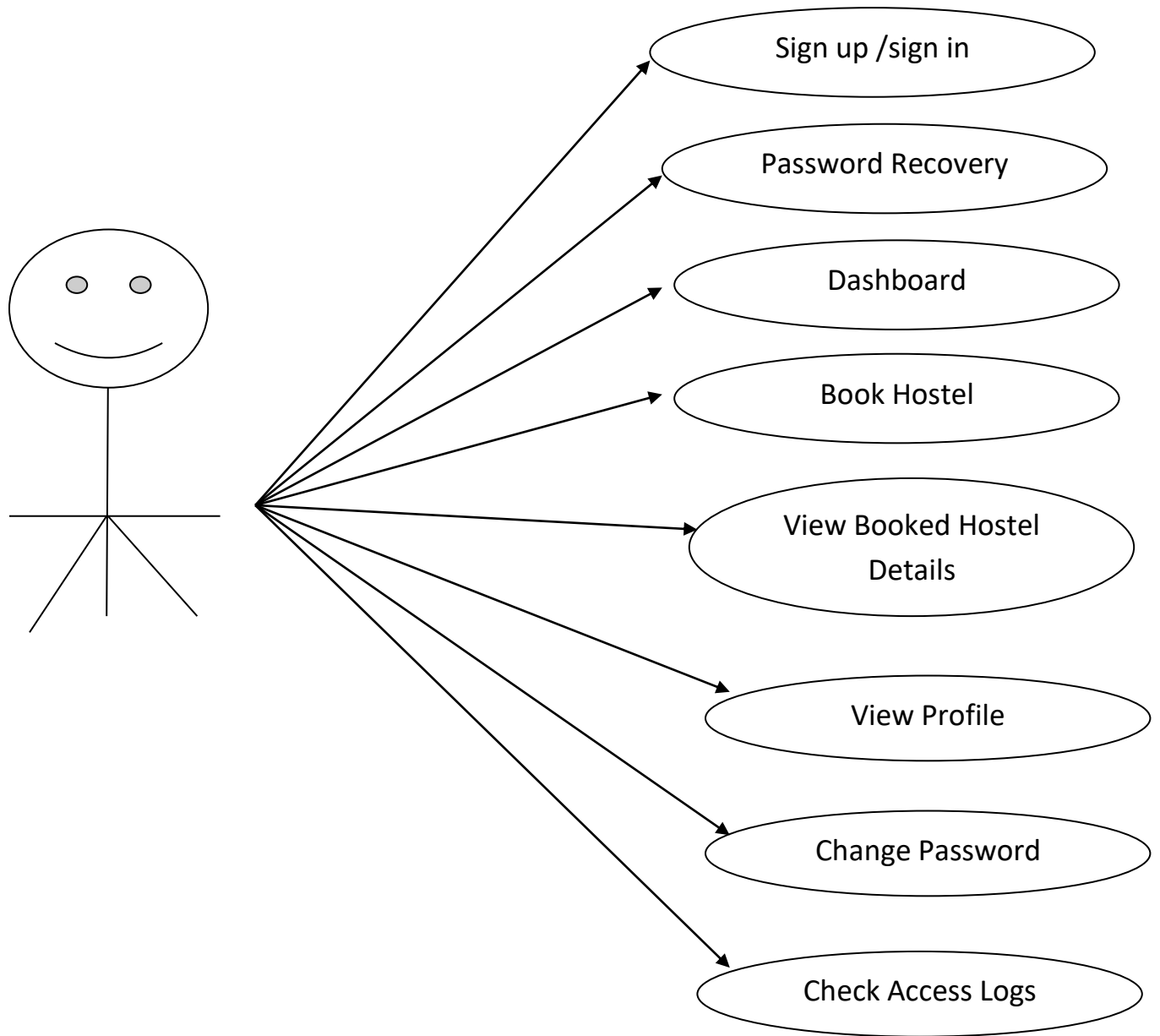
- Installed Memory (RAM): 2GB or higher
- Processor: 1GHz or higher
- Hard disk Space: 20 GB availability
- Display: Standard output display

2.2 Software Configuration

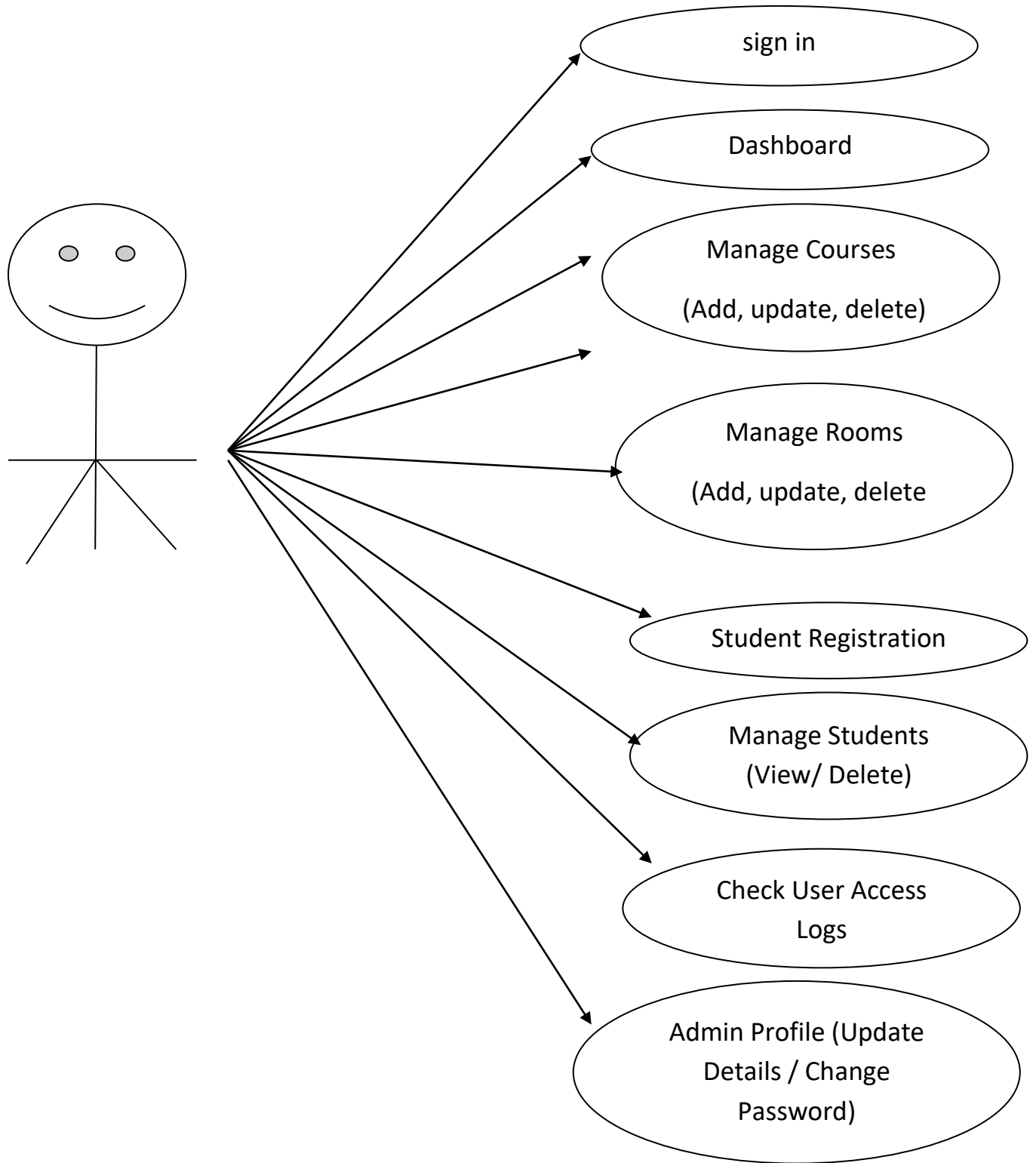
- Operating System: Windows 7 or higher
- Database: XAMPP
- IDE: Visual Studio Code
- Language: HTML, CSS, PHP

Use case Diagram

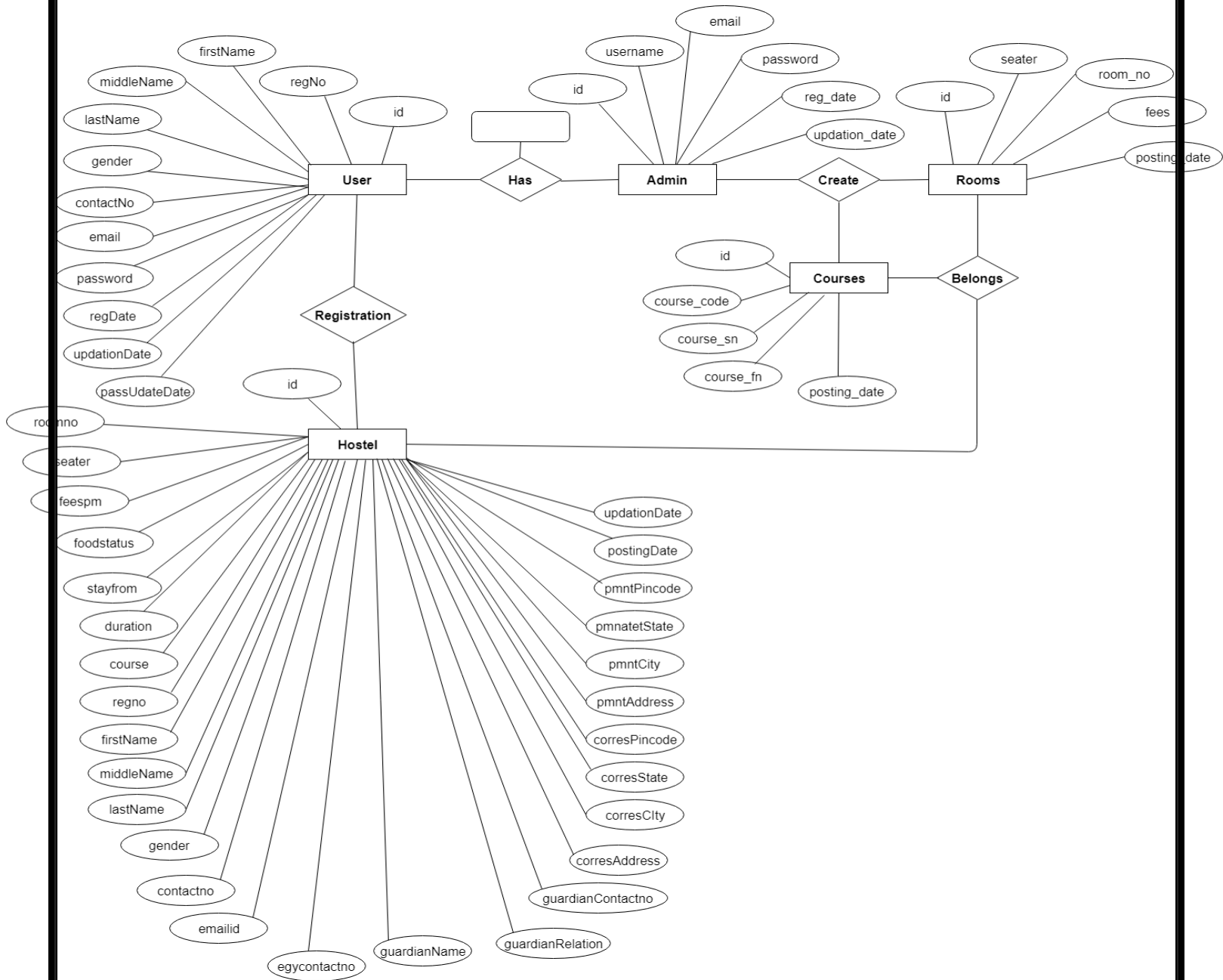
User Use Case Diagram

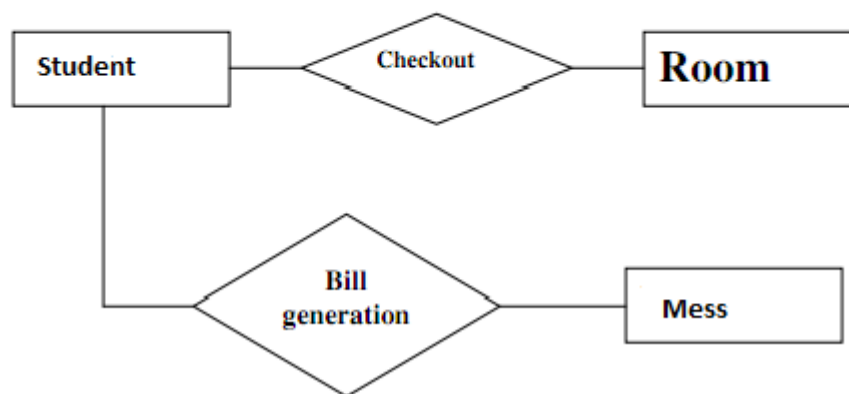
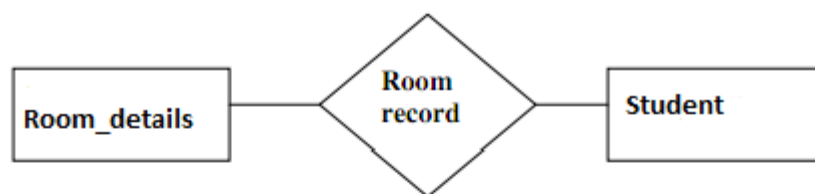
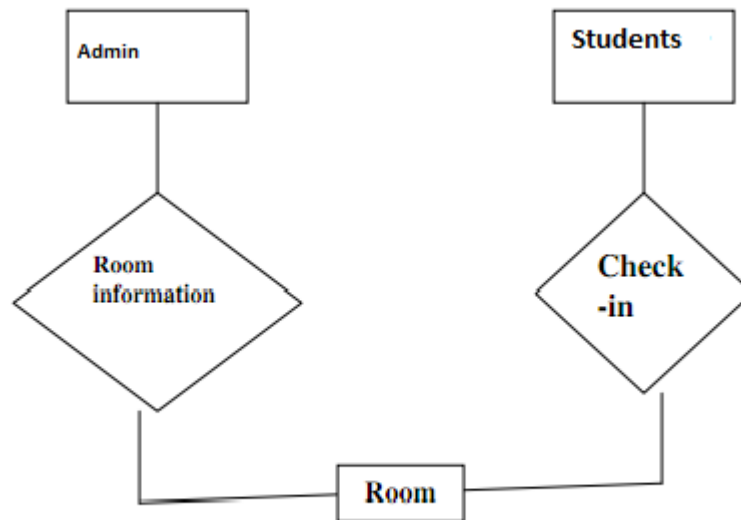


Admin Use Case Diagram

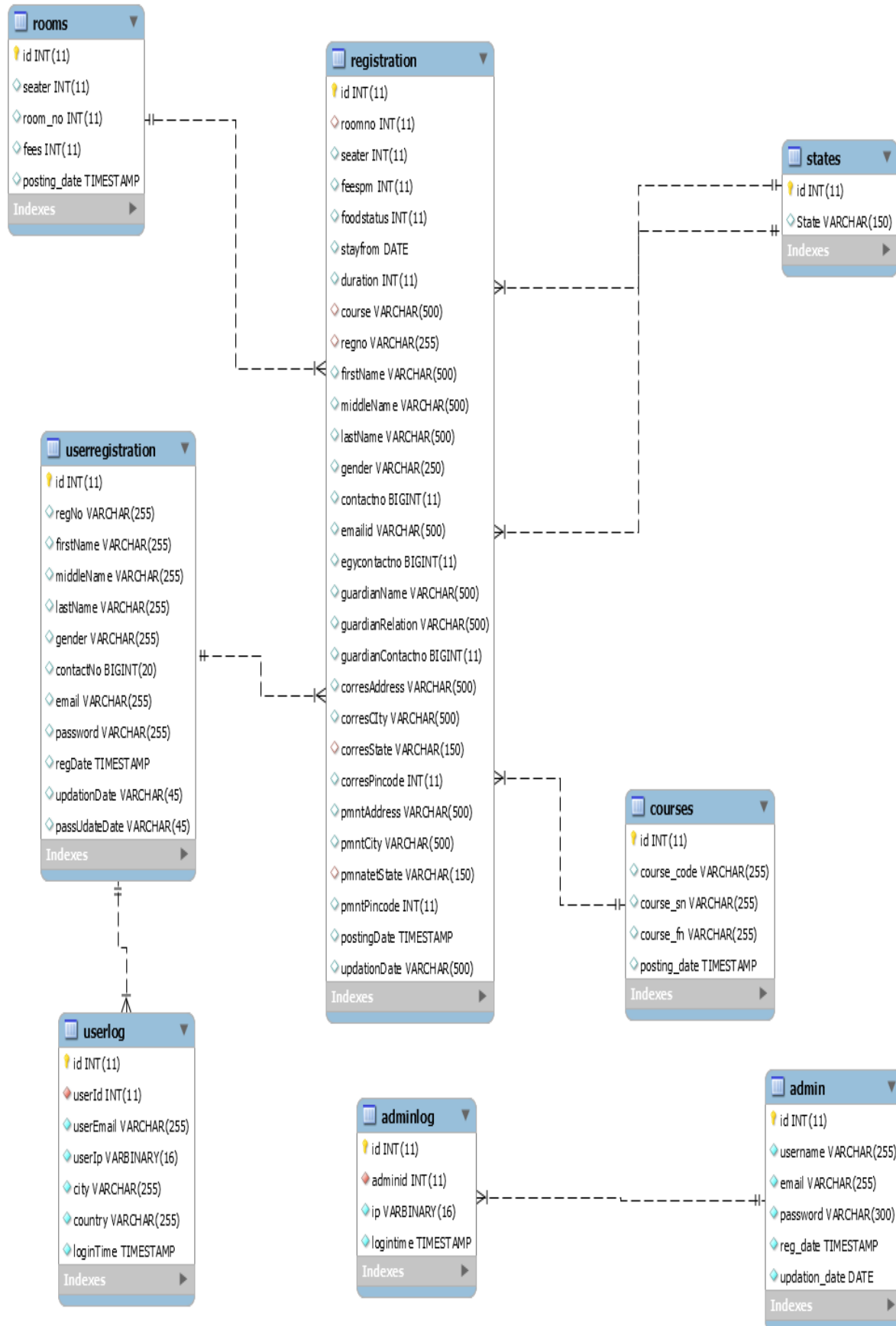


ER Diagram





SCHEMA DIAGRAM



Admin Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index More
<input type="checkbox"/>	2 username	varchar(255)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	3 email	varchar(255)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	4 password	varchar(300)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	5 reg_date	timestamp			No	CURRENT_TIMESTAMP		Change Drop Primary Unique Index More
<input type="checkbox"/>	6 updation_date	date			No	None		Change Drop Primary Unique Index More

Courses Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index More
<input type="checkbox"/>	2 course_code	varchar(255)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	3 course_sn	varchar(255)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	4 course_fn	varchar(255)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index More
<input type="checkbox"/>	5 posting_date	timestamp			No	CURRENT_TIMESTAMP		Change Drop Primary Unique Index More

Registration Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	2 roomno	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	3 seater	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	4 feespm	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	5 foodstatus	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	6 stayfrom	date			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	7 duration	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	8 course	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	9 regno	int(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	10 firstName	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	11 middleName	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	12 lastName	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	13 gender	varchar(250)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	14 contactno	bigint(11)			No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	15 emailid	varchar(500)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
<input type="checkbox"/>	16 emucontactno	bigint(11)			No	None		Change Drop Primary Unique Index Spatial

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop
<input type="checkbox"/>	2 seater	int(11)			No	None		Change Drop
<input type="checkbox"/>	3 room_no	int(11)			No	None		Change Drop
<input type="checkbox"/>	4 fees	int(11)			No	None		Change Drop
<input type="checkbox"/>	5 posting_date	timestamp			No	CURRENT_TIMESTAMP		Change Drop

Rooms Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values
<input type="checkbox"/>	2 seater	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values
<input type="checkbox"/>	3 room_no	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values
<input type="checkbox"/>	4 fees	int(11)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values
<input type="checkbox"/>	5 posting_date	timestamp			No	CURRENT_TIMESTAMP		Change Drop Primary Unique Index Spatial Fulltext Distinct values

State Table Structure

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext Distinct values
<input type="checkbox"/>	2 State	varchar(150)	latin1_swedish_ci		Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values

Output Screens

User Module

User Signup

Hostel Management System

MAIN

- User Registration
- User Login
- Admin Login

Student Registration

FILL ALL INFO

Registration No :

First Name :

Middle Name :

Last Name :

Gender :

Select Gender

Contact No :

Email id:

Password:

Confirm Password :

Cancel

Register

User Sign in

Hostel Management System

MAIN

- User Registration
- User Login
- Admin Login

User Login

EMAIL

Email

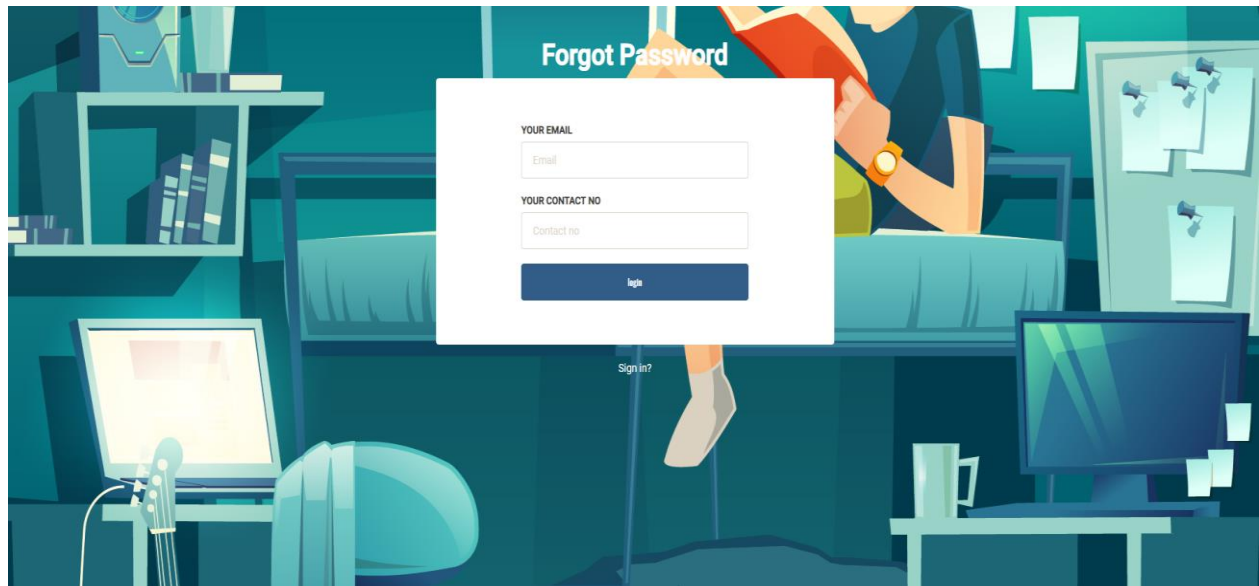
PASSWORD

Password

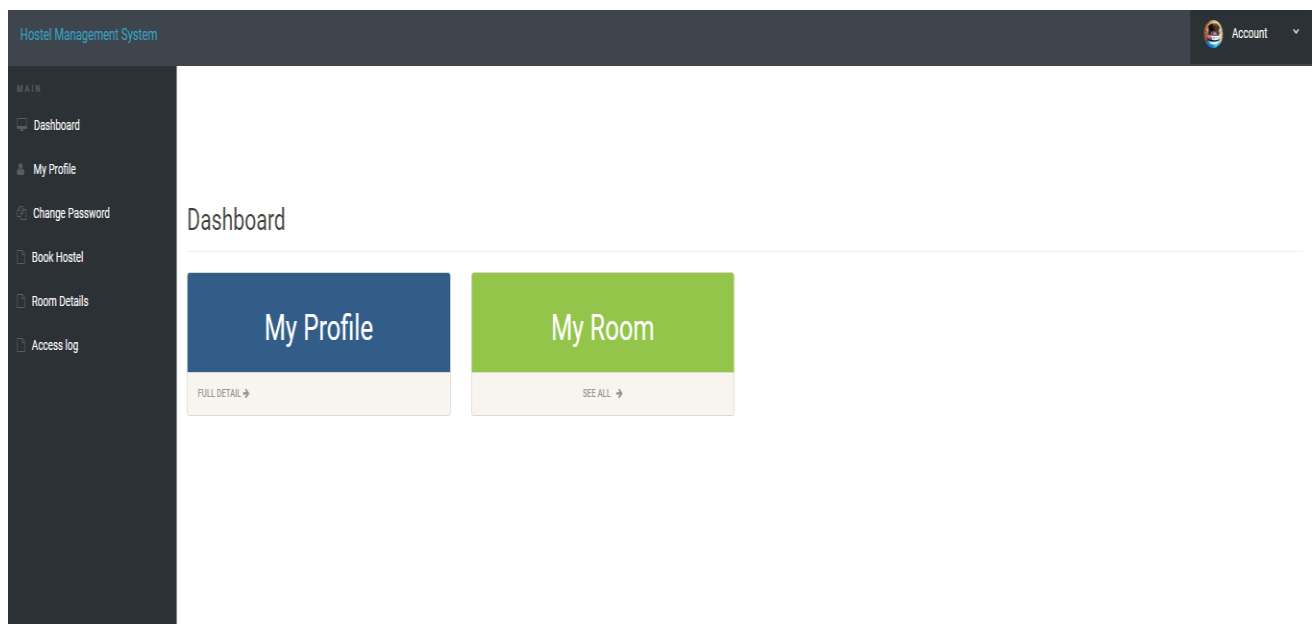
login

Forgot password?

User Password Recovery



User Dashboard



User Profile

Hostel Management System

Account

MAIN

Dashboard

My Profile

Change Password

Book Hostel

Room Details

Access log

Test's Profile

LAST UPDATION DATE : 10-06-2019 12:48:13

Registration No :

108061211

First Name :

Test

Middle Name :

test

Last Name :

kumar

Gender :

male

Contact No :

1234567890

Email Id:

test@gmail.com

Update Profile

User Change Password

Hostel Management System

Account

MAIN

Dashboard

My Profile

Change Password

Book Hostel

Room Details

Access log

Change Password

LAST UPDATION DATE:

old Password

New Password

Confirm Password

Cancel

Change Password

User Hostel Booking

Hostel Management System

Account

MAIN

- Dashboard
- My Profile
- Change Password
- Book Hostel
- Room Details
- Access log

Registration

FILL ALL INFO

Room Related info

Room no.	<input type="text" value="Select Room"/>
Seater	<input type="text"/>
Fees Per Month	<input type="text"/>
Food Status	<input checked="" type="radio"/> Without Food <input type="radio"/> With Food(Rs 2000.00 Per Month Extra)
Stay From	<input type="text" value="dd-mm-yyyy"/>
Duration	<input type="text" value="Select Duration in Month"/>
Total Amount	<input type="text"/>

Personal info

course	<input type="text" value="Select Course"/>
Registration No :	<input type="text" value="108061211"/>
First Name :	<input type="text" value="Test"/>
Middle Name :	<input type="text" value="test"/>
Last Name :	<input type="text" value="kumar"/>
Gender :	<input type="text" value="male"/>
Contact No :	<input type="text" value="1234567890"/>
Email id :	<input type="text" value="test@gmail.com"/>
Emergency Contact:	<input type="text"/>
Guardian Name :	<input type="text"/>
Guardian Relation :	<input type="text"/>
Guardian Contact no :	<input type="text"/>

Correspondence Address

Address :	<input type="text"/>
City :	<input type="text"/>
State	<input type="text" value="Select State"/>
Pincode :	<input type="text"/>

Permanent Address

<input type="checkbox"/> Permanent Address same as Correspondence address :	
Address :	<input type="text"/>
City :	<input type="text"/>
State	<input type="text" value="Select State"/>
Pincode :	<input type="text"/>

Cancel Register

User Booked Hostel Details

localhost/hostel/admin/student-details.php?regno=123456789

Hostel Management System Account

MAIN

- Dashboard
- Courses
- Rooms
- Student Registration
- Manage Students
- User Access logs

Rooms Details

ALL ROOM DETAILS

Room Realited Info

Registration Number :	123456789	Apply Date :	2022-01-25 21:40:27		
Room no :	1004	Seater :	2	Fees PM :	9000
Food Status:	With Food	Stay From :	2022-01-21	Duration:	12 Months
Hostel Fee:	108000	Food Fee:	24000		
Total Fee :	132000				

Personal Info

Reg No. :	123456789	Full Name :	SarthakKesarwani	Email :	officialsarthak905@gmail.com
Contact No. :	8840411633	Gender :	male	Course :	Bachelor of Engineering
Emergency Contact No. :	8840411633	Guardian Name :	Ayush	Guardian Relation :	Brother
Guardian Contact No. :	8840411633				

User Access log Details

Access Log localhost / 127.0.0.1 / hostel | print +

localhost/hostel/admin/access-log.php

Hostel Management System Account

MAIN

- Dashboard
- Courses
- Rooms
- Student Registration
- Manage Students
- User Access logs

Access Log

ALL COURSES DETAILS

Show 10 entries Search:

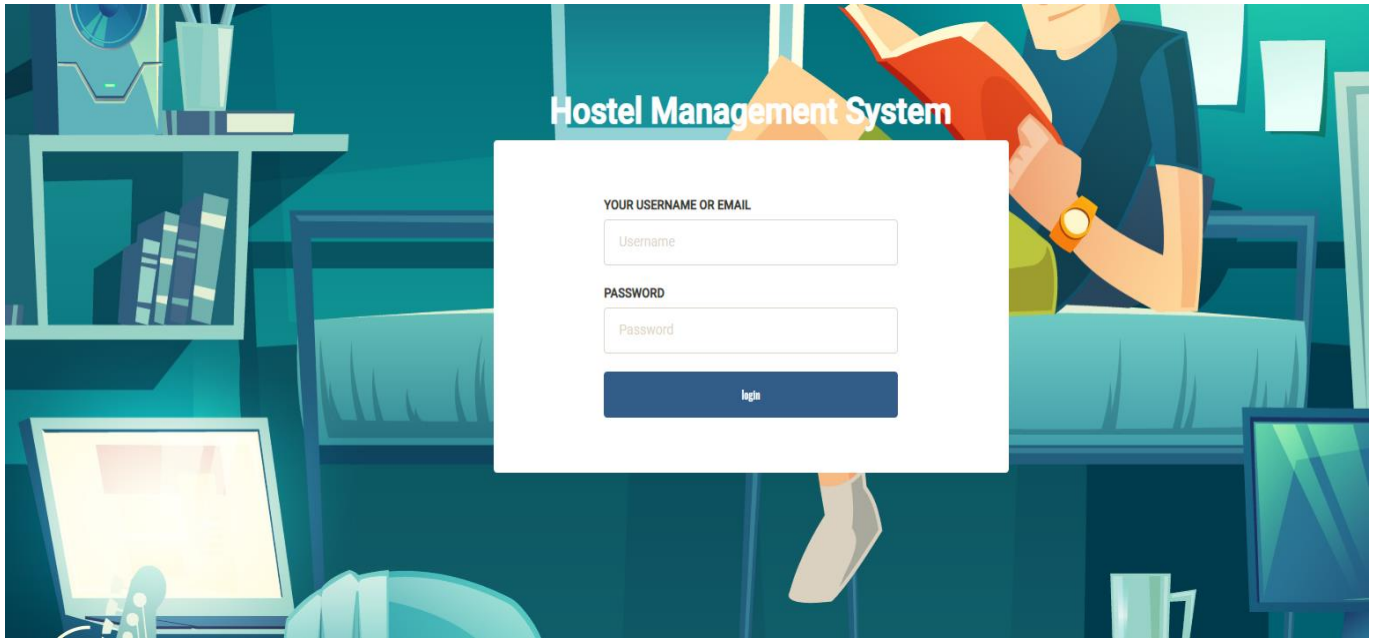
Sno.	User Id	User Email / Reg No.	IP	City	Country	Login Time
1	7	123456789	::1			2022-01-25 22:07:42
2	8	wang07941@gmail.com	::1			2022-01-25 22:11:46
3	9	0987654321	::1			2022-01-25 22:18:11
Sno.	User Id	User Email /Reg No.	IP	City	Country	Login Time

Showing 1 to 3 of 3 entries

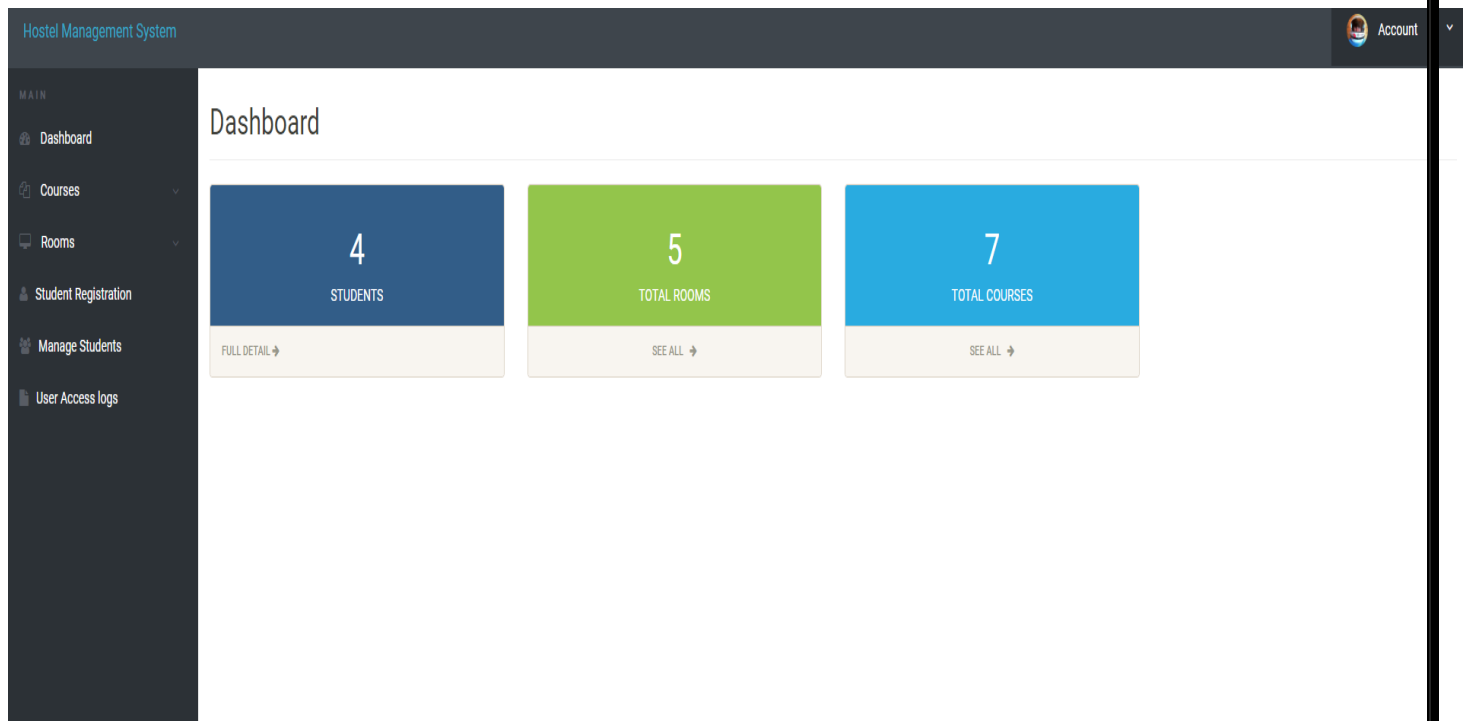
PREVIOUS 1 NEXT

Admin Module

Admin Login



Admin Dashboard



Admin Profile

The screenshot displays the 'Admin Profile' page of the 'Hostel Management System'. The page is divided into two main sections: 'ADMIN PROFILE DETAILS' and 'CHANGE PASSWORD'.

ADMIN PROFILE DETAILS:

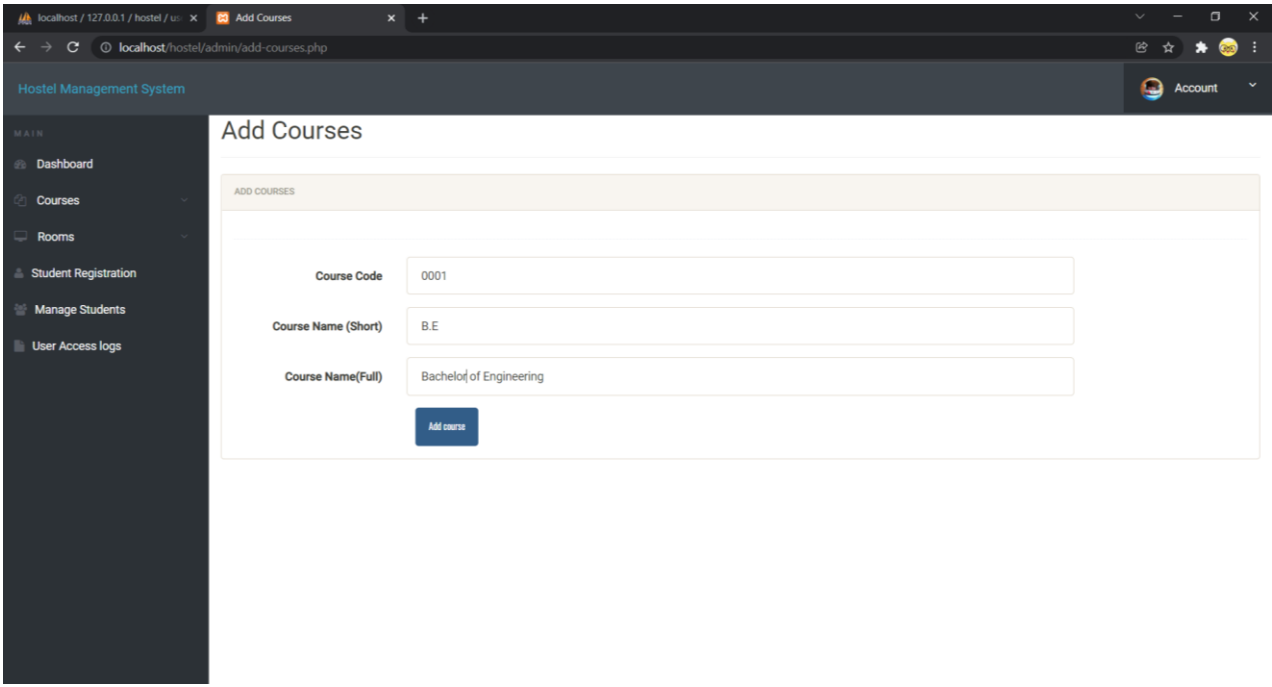
- Username:** admin. Below the input field, a message states: 'Username can't be changed.'
- Email:** kesarwani.sarthak905@gmail.com
- Reg Date:** 2022-01-14 02:01:45
- At the bottom of this section are two buttons: 'Cancel' and 'Update Profile'.

CHANGE PASSWORD:

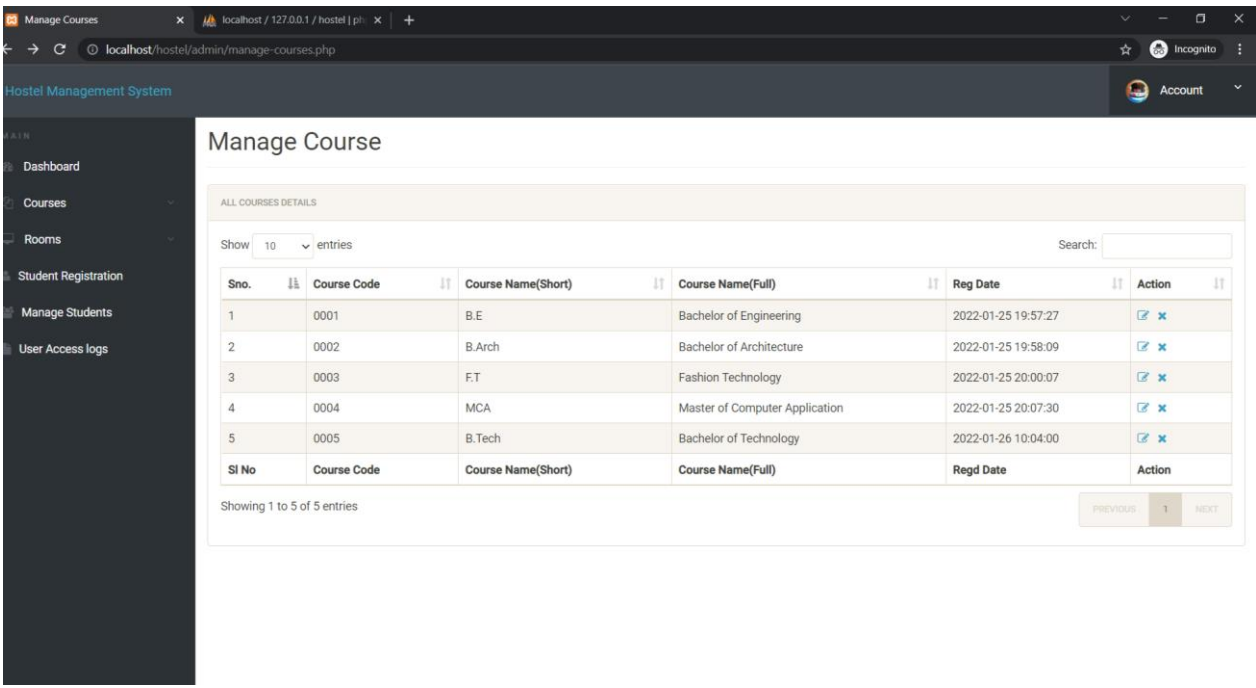
- This section contains three input fields for 'old Password', 'New Password', and 'Confirm Password'.
- At the bottom of this section are two buttons: 'Cancel' and 'Change Password'.

The left sidebar contains a 'MAIN' menu with the following items: Dashboard, Courses, Rooms, Student Registration, Manage Students, and User Access logs. The top navigation bar shows the system name 'Hostel Management System' and the user's account information 'Account'.

Admin Add Course



Admin Manage Courses



Admin edit Course Details

Hostel Management System

MAIN

Dashboard

Courses

Rooms

Student Registration

Manage Students

User Access logs

Edit Course

EDIT COURSES

Course Code

B10992

Course Name (Short)

B.Tech

Course Name(Full)

Bachelor of Technology

Update Course

Admin add room

Hostel Management System

Account

MAIN

Dashboard

Courses

Rooms

Student Registration

Manage Students

User Access logs

Add a Room

ADD A ROOM

Select Seater

Select Seater

Room No.

Fee(Per Student)

Create Room

Admin Manage Rooms

localhost / 127.0.0.1 / hostel | php | Manage Rooms

localhost/hostel/admin/manage-rooms.php

Incognito (2)

Account

Hostel Management System

MAIN

Dashboard

Courses

Rooms

Student Registration

Manage Students

User Access logs

Manage Rooms

ALL ROOM DETAILS

Show 10 entries

Search:

Sno.	Seater	Room No.	Fees (PM)	Posting Date	Action
1	1	1	7000	2022-01-25 20:08:20	✎ ✕
2	1	2	7000	2022-01-25 20:12:12	✎ ✕
3	1	3	7000	2022-01-25 20:52:45	✎ ✕
4	1	4	7000	2022-01-25 21:21:34	✎ ✕
5	1	5	7000	2022-01-25 21:21:52	✎ ✕
6	1	6	7000	2022-01-25 21:22:05	✎ ✕
7	1	7	7000	2022-01-25 21:22:17	✎ ✕
8	2	1000	9000	2022-01-25 21:24:11	✎ ✕
9	2	1002	9000	2022-01-25 21:24:23	✎ ✕
10	2	1003	9000	2022-01-25 21:24:34	✎ ✕
Sno.	Seater	Room No.	Fees (PM)	Posting Date	Action

Showing 1 to 10 of 11 entries

PREVIOUS

1

2

NEXT

Admin Edit Room Details

Hostel Management System

Account

MAIN

Dashboard

Courses

Rooms

Student Registration

Manage Students

User Access logs

Edit Room Details

EDIT ROOM DETAILS

Seater

5

Room no

100

Room no can't be changed.

Fees (PM)

8000

Update Room Details

Manage Registered Students

Manage Rooms

localhost / 127.0.0.1 / hostel | p...

localhost/hostel/admin/manage-students.php

Incognito

Account

Hostel Management System

MAIN

Dashboard

Courses

Rooms

Student Registration

Manage Students

User Access logs

Manage Registered Students

ALL ROOM DETAILS

Show 10 entries

Search:

Sno.	Student Name	Reg no	Contact no	room no	Seater	Staying From	Action
1	SarthakKesarwani	123456789	8840411633	1004	2	2022-01-21	<div></div>
2	AyushKumarSinha	1122334455	9919628578	1	1	2022-01-22	<div></div>
3	SwapnilDixit	987654321	1234567890	3	1	2022-01-27	<div></div>
Sno.	Student Name	Reg no	Contact no	Room no	Seater	Staying From	Action

Showing 1 to 3 of 3 entries

PREVIOUS

1

NEXT

CONCLUSION

To conclude the description about the project. The project, developed using PHP and MySQL is based on the requirement specification of the user and the analysis of the existing system, with flexibility for future enhancement.

The expanded functionality of today's software requires an appropriate approach towards software development. This hostel management software is designed for people who want to manage various activities in the hostel. For the past few years the number of educational institutions are increasing rapidly.

Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

*****THANK YOU*****

