

# CONTENTS

Abstract.....	i
Acknowledgement.....	ii
Contents.....	iii
List of Tables & Figures.....	iv
1. Introduction .....	05
1.1 Problem Definition.....	05
1.2 Scope And Importance.....	06
2. Software Requirement Specification.....	07
2.1 Functional Requirements.....	07
2.2 Software Requirements .....	07
2.3 Hardware Requirements .....	08
3. System Design.....	09
3.1 ER Model.....	09
3.2 Schema Description.....	10
3.3Tables Description.....	11
4. Screenshots.....	13
5. Conclusion and Future work .....	20
References.....	21

## **LIST OF TABLES AND FIGURES**

1. ER Model.....	09
2. Schema Diagram.....	10
3. admin Table.....	11
4. courses Table.....	11
5. registration Table .....	11
6. rooms Table .....	12
7. states Table .....	12

## CHAPTER 1 – INTRODUCTION

Hostel management system is a desktop application for managing hostel records. Hostel management system helps hostel admin in managing records of the hostel in an efficient manner. This project manages records of the students, hostel rooms and other things related to the hostel.

The manual way of hostel record management it is very difficult to find the record of all students their mess bills and the information of about old students who had left the hostel many years before. We design Hostel management system to facilitate the hostel admin in the hostel management.

Hostel management project is a very user friendly software that is why they do not require specially trained person to handle the software. Hostel management project can automatically calculates all the bills and gives proper notifications wherever it is required.

### 1.1 Problem Definition

The system is designed in favor of the hostel management which helps them to save the records of the students about their rooms and other things. It helps them from the manual work from which it is very difficult to find the record of the students and mess bills of the students, and the information of about the those ones who had left the hostel. All the hostel 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 if 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 system, thus overcome the drawbacks of the existing system. We design this system of the hostel management especially for college hostels.

### 1.2 Scope & Importance

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 people in the administration panel and number of registers that were in search 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 database of the system will help you to check a particular one. Some of the objectives are:

- To automate each and 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.

## CHAPTER 2 – Software Requirement Specification

### 2.1 Functional Requirements Specification

**Login Module:** In this module, we can do the following:

- Users as well as Admins can log in to their accounts.
- If a user is not registered with the database, he/she may enroll himself/herself following which a unique user id and password will be generated for login.
- Admin must login with his/her unique user id, password.

**Administrator Module:** In this module, we can do the following:

- Admin can add rooms, courses.
- Admin can manage the rooms, courses and also the student management of the hostel.
- Admins can view and update the room, course and student details.

**User Module:** In this module, we can do the following:

- The user can book a hostel and also update their details if necessary.

**View:** In this module, the users can view the availability of the rooms.

### 2.2 Software Requirements Specification

**Operating System:** Windows 7 or higher

**Language:** HTML, CSS, Javascript, PHP, SQL

**Database:** Mysql Database.

**IDE:** Visual Studio Code, Sublime.

## **2.2 Hardware Requirements Specification**

**Installed Memory (RAM):** 2GB or higher

**Processor:** 1GHz or higher

**Hard disk Space:** 20 GB availability

**Display:** Standard output display

## CHAPTER 3 – SYSTEM DESIGN

### 3.1 ER Model

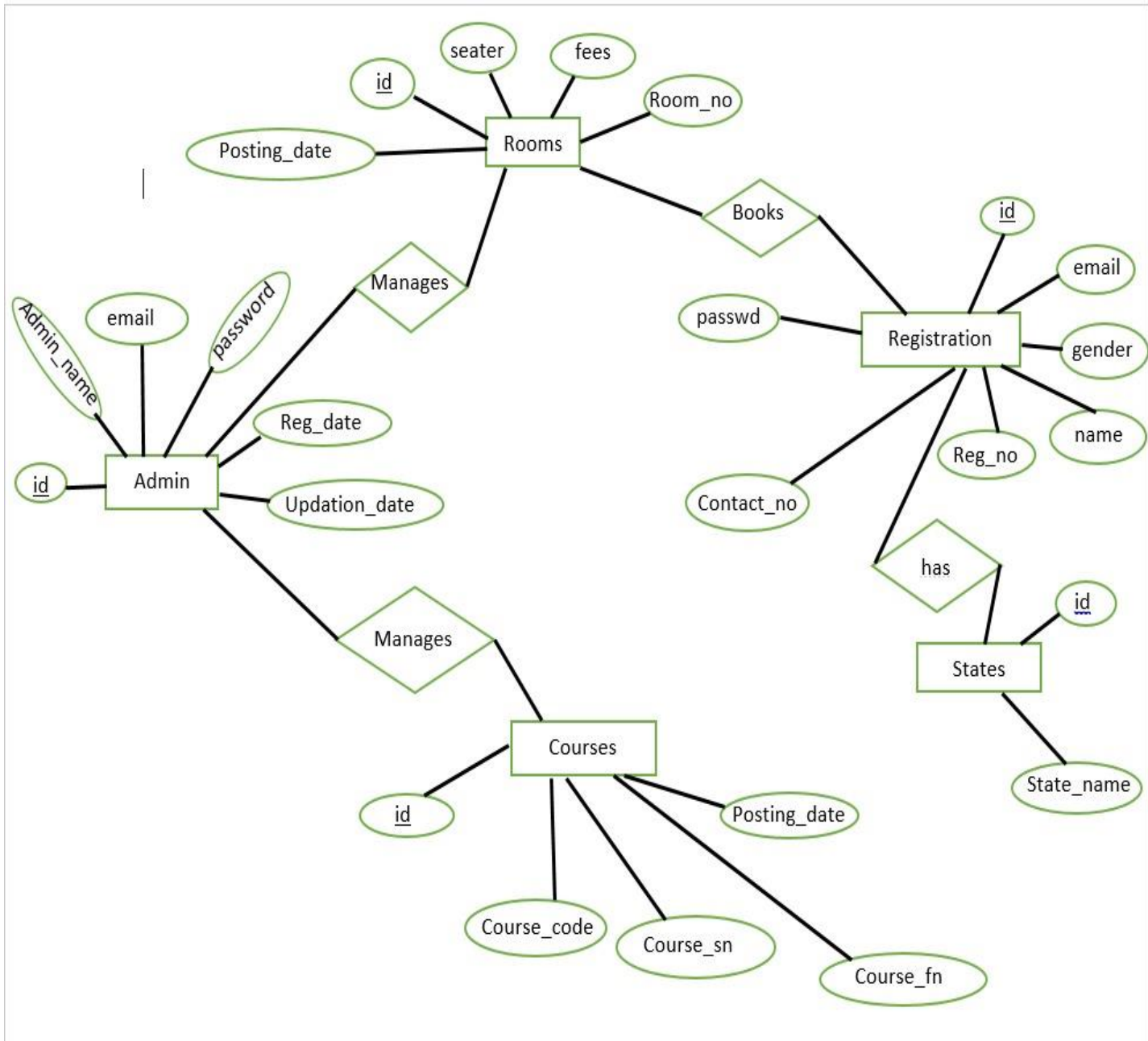
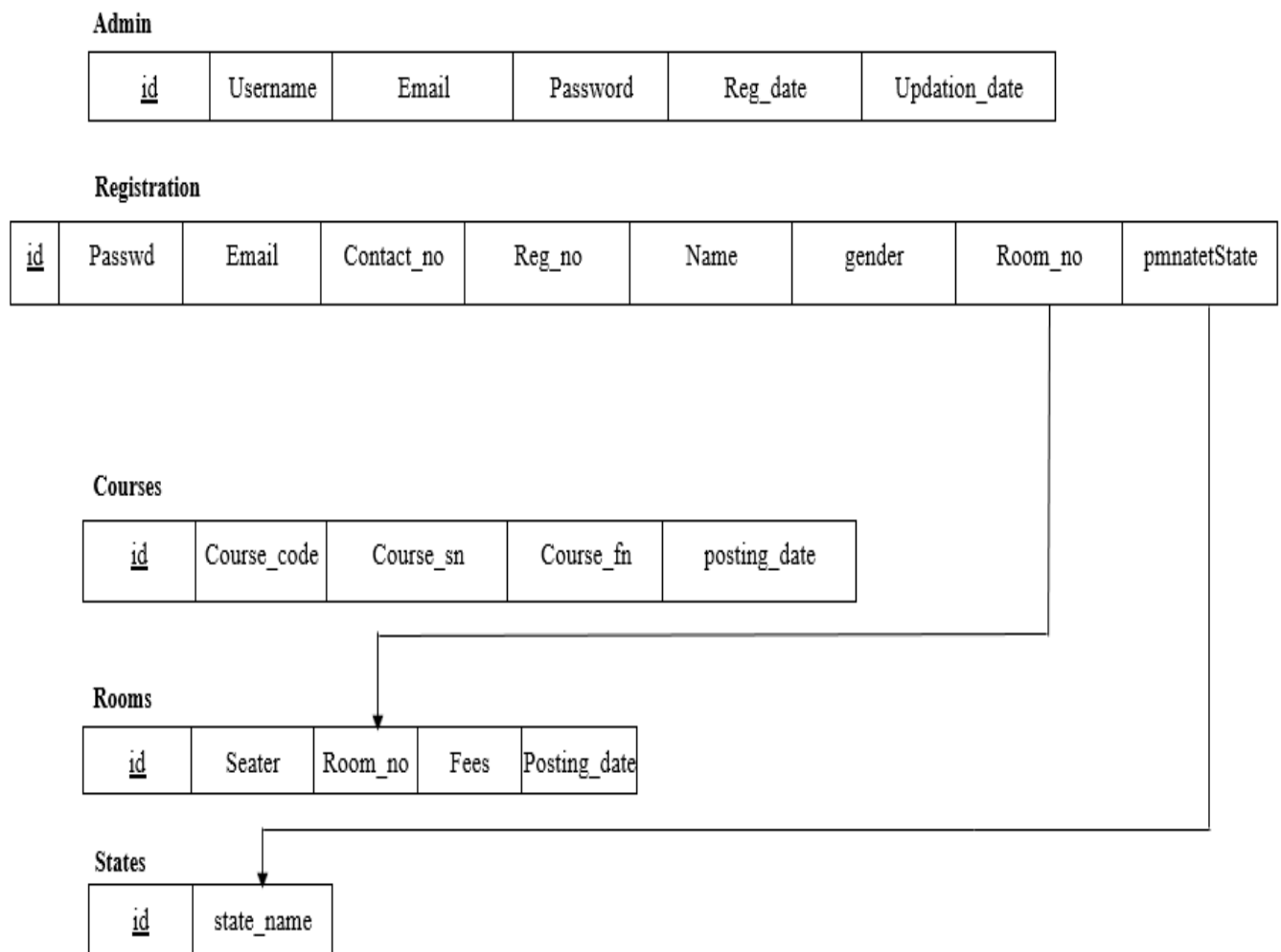


Fig 3.1: ER diagram

## 3.2 Schema Diagram



**Fig 3.2: Schema Diagram**



### 3.3 Table Description

**TABLE 1: admin**

ATTRIBUTES	DATA TYPES	CONSTRAINTS	DESCRIPTION
<u>id</u>	int(11)	PRIMARY KEY	Admin id
admin_name	varchar(100)	NULLABLE	Name of the admin
admin_email	varchar(100)	NULLABLE	Admin's email
admin_password	varchar(100)	NULLABLE	Admin's password
reg_date	timestamp	NULLABLE	Registration date
updation_date	date	NULLABLE	Updation date

**TABLE 2: courses**

ATTRIBUTES	DATA TYPES	CONSTRAINTS	DESCRIPTION
<u>id</u>	int(11)	PRIMARY KEY	Id of the course
course_code	varchar(100)	NULLABLE	Course Code
course_sn	varchar(100)	NULLABLE	Course Short name
course_fn	int(11)	NULLABLE	Course Full Name
posting_date	timestamp	NULLABLE	Posting date

**TABLE 3: Registrations**

ATTRIBUTES	DATA TYPES	CONSTRAINTS	DESCRIPTION
<u>id</u>	int(11)	PRIMARY KEY	User id
passwd	varchar(100)	NULLABLE	User's password
Email	Varchar(100)	NULLABLE	User's email
Contact_no	Bigint	NULLABLE	User's contact no
Reg_no	Varchar(100)	NULLABLE	User's registrations no
name	Varchar(100)	NULLABLE	User's name

gender	Varchar(100)	NULLABLE	User's gender
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**TABLE 4: Rooms**

ATTRIBUTES	DATA TYPES	CONSTRAINTS	DESCRIPTION
id	int(11)	PRIMARY KEY	id of user
Seater	Int(11)	NULLABLE	Type of bed
Room_no	Int(11)	NULLABLE	User's Room no
Fees	int(11)	NULLABLE	Fees of room
Posting_date	timestamp	NULLABLE	Posting date

**TABLE 5: states**

ATTRIBUTES	DATA TYPES	CONSTRAINTS	DESCRIPTION
id	int(11)	PRIMARY KEY	Result id
State	varchar(100)	NULLABLE	User's email

## CHAPTER 4– SCREENSHOTS

The screenshot shows the 'Student Registration' page of the 'Hostel Management System'. On the left is a dark sidebar with a 'MAIN' menu containing 'User Registration', 'User Login', and 'Admin Login'. The main content area has a title 'Student Registration' and a 'FILL ALL INFO' section. The form includes fields for 'Registration No' (108), 'First Name' (Gautham), 'Middle Name' (SP), 'Last Name' (empty), 'Gender' (Male), 'Contact No' (7954071657), 'Email id' (gauthamguthu@gmail.com), 'Password' (masked with dots), and 'Confirm Password' (masked with dots). A green key icon is next to the password field. At the bottom are 'Cancel' and 'Register' buttons.

**Fig 1 : Student registration page**

The screenshot shows the 'User Login' page of the 'Hostel Management System'. The sidebar is identical to the previous page. The main content area has a title 'User Login'. The login form has an 'EMAIL' field with 'rheabdsouza@gmail.com' and a green key icon, and a 'PASSWORD' field with masked dots. Below the fields is a blue 'login' button. At the bottom is a 'Forgot password?' link.

**Fig 2 : login page**

The screenshot shows the 'Change Password' page of the Hostel Management System. The page has a dark sidebar on the left with a 'MAIN' menu containing 'Dashboard', 'My Profile', 'Change Password', 'Book Hostel', and 'Room Details'. The 'Change Password' option is selected. The main content area is titled 'Change Password' and contains a form with the following elements:

- A header bar with the text 'LAST UPDATION DATE:'.
- Three password input fields: 'Old Password', 'New Password', and 'Confirm Password'. The 'Old Password' field has a green eye icon on its right side.
- A green message 'Password matched.' is displayed below the 'Old Password' field.
- Two buttons at the bottom: 'Cancel' and 'Change Password'.

**Fig 3 : Change password**

The screenshot shows the 'Rhea's Profile' page of the Hostel Management System. The page has a dark sidebar on the left with a 'MAIN' menu containing 'Dashboard', 'My Profile', 'Change Password', 'Book Hostel', and 'Room Details'. The 'My Profile' option is selected. The main content area is titled 'Rhea's Profile' and contains a form with the following elements:

- Registration No : 097
- First Name : Rhea
- Middle Name : Benedicta
- Last Name : D'souza
- Gender : female (dropdown menu)
- Contact No : 8296320814
- Email id : rheabdsouza@gmail.com
- An 'Update Profile' button at the bottom.

**Fig 4 : User profile page**

# Hostel Management System

Hostel Management System

Account

MAIN

Dashboard

My Profile

Change Password

Book Hostel

Room Details

## Rooms Details

ALL ROOM DETAILS

Room Related Info

Reg details: :2020-11-11 14:58:55

Room no :	112	Seater :	3	Fees PM :	4000
Food Status:	With Food	Stay From :	2020-11-23	Duration:	6 Months
Total Fee : 26000					

Personal Info

Reg No. :	97	Full Name :	Rhea Benedicta D'souza	Email :	rheabsouza@gmail.com
Contact No. :	8296320814	Gender :	female	Course :	Bachelor of Engineering
Emergency Contact No. :	9845660661	Guardian Name :	Jason Rego	Guardian Relation :	Uncle
Guardian Contact No. :	9845660661				

Addresses

Correspondence Address	'Casa Rhean' Bejai Kapikad Mangalore Mangalore, 575004 Karnataka	Permanent Address	'Casa Rhean' Bejai Kapikad Mangalore Mangalore, 575004 Karnataka
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Fig 5 : Room details

Hostel Management System

Account

MAIN

Dashboard

My Profile

Change Password

Book Hostel

Room Details

## Registration

FILL ALL INFO

Hostel already booked by you

Room Related info

Room no.

Select Room

Seater

Fees Per Month

Food Status

☒ Without Food ☐ With Food(Rs 2000.00 Per Month Extra)

Stay From

dd-mm-yyyy

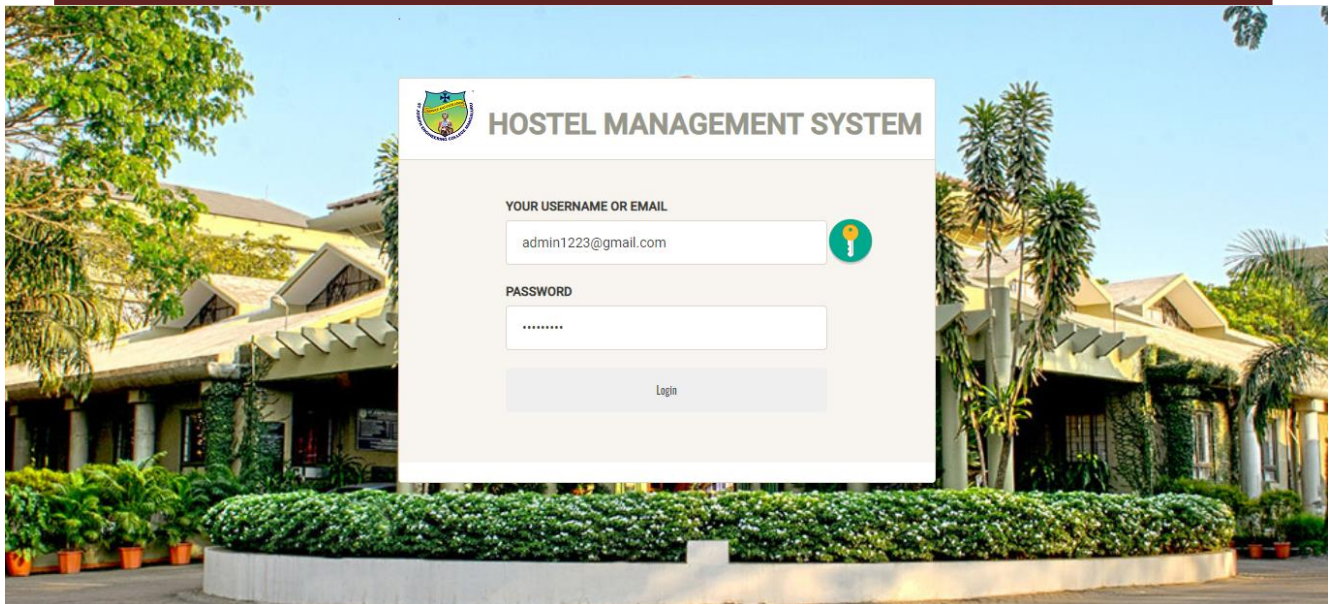
Duration

Select Duration in Month

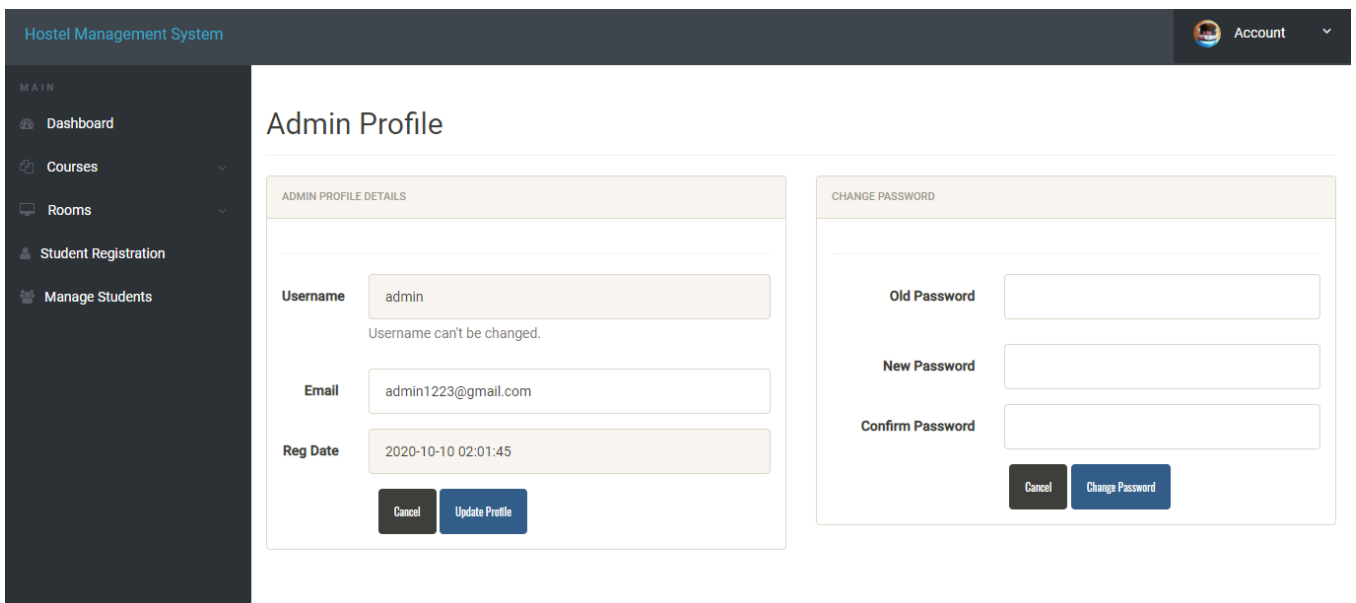
Total Amount

Personal info

Fig 6 : Room related info

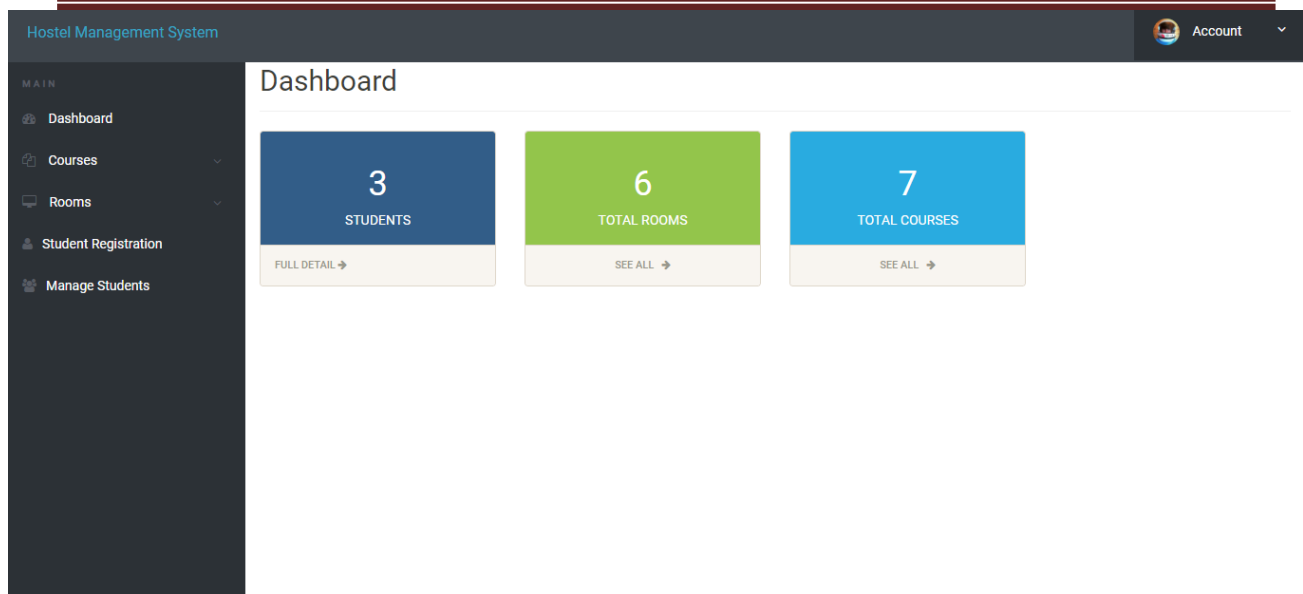


**Fig 7 : admin login page**

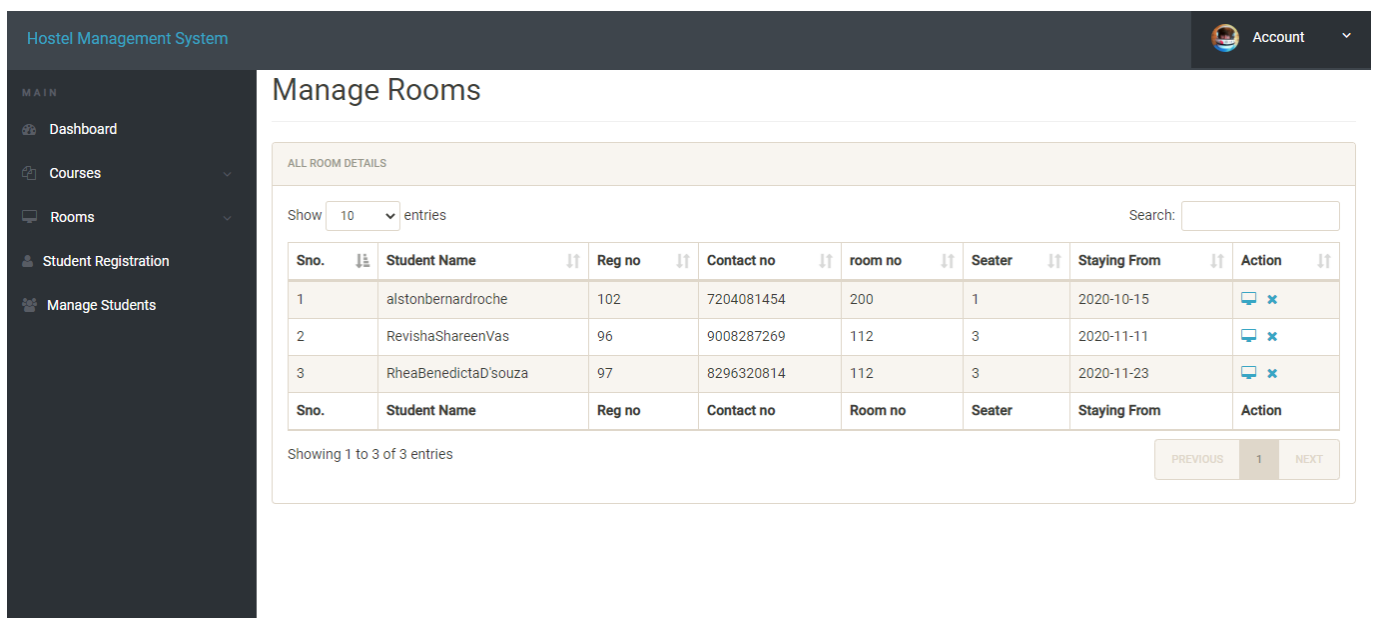


**Fig 8: Admin profile page**

# Hostel Management System



**Fig 9 : Dashboard**



**Fig 10 : Manage Rooms**

# Hostel Management System

Hostel Management System

Account

MAIN

- Dashboard
- Courses
- Rooms
- Student Registration
- Manage Students

## Manage Rooms

ALL ROOM DETAILS

Show 10 entries

Search:

Sno.	Student Name	Reg no	Contact no	room no	Seater	Staying From	Action
1	alstonbernardroche	102	7204081454	200	1	2020-10-15	<a href="#">Edit</a> <a href="#">Delete</a>
2	RevishaShareenVas	96	9008287269	112	3	2020-11-11	<a href="#">Edit</a> <a href="#">Delete</a>
3	RheaBenedictaD'souza	97	8296320814	112	3	2020-11-23	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 3 of 3 entries

PREVIOUS 1 NEXT

Fig 11: Manage Rooms

Hostel Management System

Account

MAIN

- Dashboard
- Courses
- Rooms
- Student Registration
- Manage Students

## Manage Rooms

ALL ROOM DETAILS

Show 10 entries

Search:

Sno.	Seater	Room No.	Fees (PM)	Posting Date	Action
1	5	100	8000	2020-11-11 04:15:43	<a href="#">Edit</a> <a href="#">Delete</a>
2	2	201	6000	2020-11-11 07:00:47	<a href="#">Edit</a> <a href="#">Delete</a>
3	2	200	6000	2020-11-11 07:00:58	<a href="#">Edit</a> <a href="#">Delete</a>
4	3	112	4000	2020-11-11 07:01:07	<a href="#">Edit</a> <a href="#">Delete</a>
5	5	132	2000	2020-11-11 07:01:15	<a href="#">Edit</a> <a href="#">Delete</a>
6	2	111	5000	2020-11-11 15:05:04	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 6 of 6 entries

PREVIOUS 1 NEXT

Fig 12: Manage Rooms

Hostel Management System

Account

MAIN

- Dashboard
- Courses
- Rooms
- Student Registration
- Manage Students

## Manage Course

ALL COURSES DETAILS

Show 10 entries

Search:

Sno.	Course Code	Course Name(Short)	Course Name(Full)	Reg Date	Action
1	B10992	B.Tech	Bachelor of Technology	2020-10-11 01:01:42	<a href="#">Edit</a> <a href="#">Delete</a>
2	BCOM1453	B.Com	Bachelor Of commerce	2020-10-12 01:02:46	<a href="#">Edit</a> <a href="#">Delete</a>
3	BSC12	BSC	Bachelor of Science	2020-10-12 01:03:23	<a href="#">Edit</a> <a href="#">Delete</a>
4	BC36356	BCA	Bachelor Of Computer Application	2020-10-12 01:04:18	<a href="#">Edit</a> <a href="#">Delete</a>
5	MCA565	MCA	Master of Computer Application	2020-10-12 01:04:40	<a href="#">Edit</a> <a href="#">Delete</a>
6	MBA75	MBA	Master of Business Administration	2020-10-12 01:04:59	<a href="#">Edit</a> <a href="#">Delete</a>
7	BE765	BE	Bachelor of Engineering	2020-10-12 01:05:19	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 7 of 7 entries

PREVIOUS 1 NEXT

Fig 13: Manage Course





The screenshot displays the 'Registration' page of the Hostel Management System. The left sidebar contains a 'MAIN' menu with options: Dashboard, Courses, Rooms, Student Registration, and Manage Students. The top header shows 'Hostel Management System' and an 'Account' dropdown. The main content area is titled 'Registration' and features a 'FILL ALL INFO' section. Under 'Room Related info', there are several input fields: 'Room no.' (a dropdown menu currently showing 'Select Room'), 'Seater' (a text input), 'Fees Per Month' (a text input), 'Food Status' (radio buttons for 'Without Food' and 'With Food(Rs 2000.00 Per Month Extra)', with 'Without Food' selected), 'Stay From' (a date picker showing 'dd-mm-yyyy'), and 'Duration' (a dropdown menu showing 'Select Duration in Month'). The Windows taskbar at the bottom shows the time as 02:50 on 08-01-2021.

**Fig 14: Room related registration**


The screenshot displays the 'Add Courses' page of the Hostel Management System. The left sidebar is identical to the previous figure. The top header also shows 'Hostel Management System' and an 'Account' dropdown. The main content area is titled 'Add Courses' and features an 'ADD COURSES' section. This section contains three input fields: 'Course Code' (with 'Bsc' entered), 'Course Name (Short)' (with 'BacheSc' entered), and 'Course Name(Full)' (with 'Bachelor Of Science' entered). Below these fields is a blue 'Add course' button.



**Fig 15: Add Course**



Hostel Management System


 Account 


MAIN

 Dashboard

 Courses 

 Rooms 


 Student Registration

 Manage Students

## Add a Room

ADD A ROOM

Select Seater

Single Seater 

Room No.

400

Fee(Per Student)

2500

Create Room

**Fig 16:Add a Room**

## **CHAPTER 5 – CONCLUSION & FUTURE SCOPE**

### **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.

### **FUTURE SCOPE:**

Hostel Management is a user-friendly and Customization software for student Hostel. It is a user-friendly and customize software for providing support for hostel admin. It is easy to extend the system that we have proposed. A person could see any of the issued, unissued or all the rooms according to his/her will. In future we can implement some features for "HOSTEL MANAGEMENT SYSTEM" project. In this system its possible to categorize room rent for middle class students and poor students. Some poor students are given a particular concession for the entire year. This project is a very flexible software and it can be upgraded according to the individual hostel needs.

## REFERENCES

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