

# **HOTEL MANAGEMENT SYSTEM**

## **A MINI PROJECT REPORT**

*Submitted by*

**P SAKETH REDDY [RA2011003010618]  
CH VENKATA KALYAN GUPTA [RA2011003010622]  
KALIMISETTY SASHANK [RA2011003010649]**

*Under the guidance of  
**Mrs. D. VIJI***

(Assistant Professor, Department of Computing  
Technologies)

*In partial satisfaction of the requirements for the degree of*

**BACHELOR OF TECHNOLOGY**

in

**COMPUTER SCIENCE & ENGINEERING  
With specialization in Computing Technologies**



**SCHOOL OF COMPUTING  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY  
KATTANKULATHUR - 603203**

**APRIL 2023**



COLLEGE OF ENGINEERING & TECHNOLOGY  
SRM INSTITUTE OF SCIENCE & TECHNOLOGY  
S.R.M. NAGAR, KATTANKULATHUR – 603 203

## BONAFIDE CERTIFICATE

Certified that this project report "**HOTEL MANAGEMENT SYSTEM**" is the bonafide work of "**P SAKETH REDDY [RA2011003010618], CH VENKATA KALYAN GUPTA [RA2011003010622], KALIMISETTY SASHANK [RA2011003010649]**" of III Year/VI Sem B.tech(CSE) who carried out the mini project work under my supervision for the course 18CSC303J- Database Management systems in SRM Institute of Science and Technology during the academic year 2022-2023(Even sem).

### SIGNATURE

Mrs. D. VIJI  
Assistant Professor  
Department of Computing  
Technologies

### SIGNATURE

Dr. M. PUSHPALATHA  
HEAD OF THE DEPARTMENT  
Department of Computing  
Technologies

## **ABSTRACT**

A hotel management system is a software application designed to manage and organize all aspects of a hotel's operations. It is an essential tool for any hotel that wants to streamline its daily tasks and improve its overall efficiency. The hotel management system comprises various modules that help in managing different hotel activities, such as front desk operations, housekeeping, accounting, and inventory management. The system allows hotel staff to manage guest reservations, check-ins and check-outs, room allocation, and billing, all from a centralized location. This system also helps to track the occupancy rate and revenue generated by each room in the hotel. The system also assists in managing housekeeping operations, such as room cleaning schedules, laundry management, and maintaining the inventory of toiletries and amenities. The system enables staff to check the availability of rooms and plan cleaning schedules accordingly. Moreover, the system includes accounting modules that enable hotels to keep track of expenses, revenue, and other financial data. This module automates the billing process and generates invoices for services offered to guests. It also generates financial reports that help hotel management in making informed decisions. The hotel management system also helps manage inventory by keeping track of stock levels, ordering and restocking supplies, and reducing wastage. The system also enables staff to monitor the consumption of supplies and plan accordingly to prevent shortages. In conclusion, the hotel management system is essential to manage their operations efficiently. It streamlines various activities and helps in providing guests with a seamless experience. By automating repetitive tasks, the system enables staff to focus on delivering excellent customer service and enhancing guest satisfaction.

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## **ABBREVIATIONS**

<b>HTML</b>	Hypertext Markup Language
<b>CSS</b>	Cascading Style Sheets
<b>DB</b>	Data Base
<b>SQL</b>	Structured Query Language
<b>PHP</b>	Hypertext Preprocessor
<b>UI</b>	User Interface

# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 INTRODUCTION**

The hotel industry is one of the most significant contributors to the global economy. As the industry grows, hotels are facing increasing pressure to streamline their operations and provide exceptional guest experiences. One way to achieve this is by implementing a hotel management system, which can help hotels automate their day-to-day tasks, manage their operations efficiently, and improve customer service.

### **1.2 PROBLEM STATEMENT**

A hotel system manages information about rooms, reservations, customers, and customer billing. A customer can make reservations, change, or cancel reservations through the hotel website. When a customer makes reservations, he/she needs to check if a room the customer wants to reserve is available. If a room is available, the customer enters his/her information to the system and receives a confirmation number from the web site.

A Front desk clerk checks in a customer with only a prior reservation, changes the checkout date, and checks out the customer. A room is assigned to the customer at check-in time and a customer billing record is created at that time. The customer billing record is updated every night at 12. When a customer checks out, the desk clerk prints the bill. A customer can pay by cash, check, or credit card when he/she checks out.

### **1.3 OBJECTIVES**

- The main objective of this project is to ensure reliable and efficient communication within the hotel and avoid common input errors done by hotel staff.
- This project also aims for fast and easy retrieval of hotel guest records for faster reference activities.

- Third main important objective of the Hotel management system project is to enforce security measures to avoid unauthorized access to the customer record.
- Track guests based on their name, address, city and Track bookings based on dates, booking type, and room count. Designate Room Types with a standard rate, room description.

## 1.4 SCOPE AND APPLICATIONS

The software to be developed deals with creating a Hotel Management system which will automate the major hotel operations, billing and keeping track of records of daily transactions. Admin have the authority to control and modify the database. The main goal of this automated Hotel Management System software is to simplify the everyday process of hotels. Day to day Hotels are increasing and they need to automate to provide customer ease of access.

It will be able to take care of services to customers in a quick manner. This automation will be able to replace the drawbacks of large customer information physical files which were difficult to handle. Secure Transaction, quick retrieval of information, ease of use, quick recovery of errors, fault tolerance are some of the benefits that the development team will be working on to achieve end user satisfaction.

A hotel management system is a software application designed to manage and automate hotel operations, providing a variety of applications that can benefit hotel staff and guests alike. Here are some of the most important applications for a hotel management system:

**1. RESERVATION MANAGEMENT :** The reservation management application allows guests to book rooms online, and the system automates the booking process, ensuring that rooms are allocated and updated in real-time. It also provides a way to manage reservations and cancellations and send confirmation emails to guests.

**2. FRONT DESK MANAGEMENT :** The front desk management application helps hotel staff manage guest check-ins and check-outs. It provides real-time access to guest information, room availability, and room status, enabling staff to provide efficient and prompt service.

**3. HOUSEKEEPING MANAGEMENT :** The housekeeping management application helps staff schedule and manage room cleaning, track the availability of cleaning supplies and amenities, and manage laundry services.

**4. BILLING AND ACCOUNTING :** The billing and accounting application automates the billing process and generates invoices for services offered to guests. It also generates financial reports, helping hotel management make informed decisions about revenue and expenses.

**5. MARKETING AND GUEST MANAGEMENT :** The marketing and guest management application enables hotels to track guest preferences and create targeted marketing campaigns to attract and retain customers. It also provides guest feedback and reviews to help hotels improve their services.

In conclusion, a hotel management system provides a variety of applications that can help hotels streamline their operations, improve customer service, and stay competitive in a rapidly evolving industry. By automating repetitive tasks and providing real-time access to critical information, a hotel management system can improve the efficiency and effectiveness of hotel operations.

## **1.5 GENERAL AND UNIQUE SERVICES IN THE HOTEL DATABASE APPLICATION**

Here is a list of general and unique services that can be included in the database application for hotel management :

### **1. GENERAL SERVICES :**

- Reservation management
- Check-in and check-out management
- Room availability and allocation management
- Payment processing and billing management
- Enquiry and contact

## **2. UNIQUE SERVICES :**

- 24/7 room service and customer support
- Laundry services
- 24 - Hour Doctor on Call
- Meeting Facilities
- Different login sections for user and admin

## **1.6 SOFTWARE REQUIREMENTS SPECIFICATION**

### **1. CLIENT SIDE :**

Web Browser	-	Google Chrome or any compatible browser
Operating System	-	Windows or any equivalent OS

### **2. SERVER SIDE :**

Web Server	-	APACHE
Server side Language	-	PHP5.6 or above version
Database Server	-	MYSQL
Web Browser	-	Google Chrome or any compatible browser
Operating System	-	Windows or any equivalent OS

# **CHAPTER 2**

## **LITERATURE SURVEY**

### **2.1 EXISTING SYSTEM**

The present scenario offers manual data entry. A lot of time is wasted in creating the reports as well as maintaining them. In case, if any query arises to get the information about the booking, queries and registered users, the whole report is re-typed or xeroxed. This seriously affects the authentication of the system. This Hotel Booking Management System is totally outdated and involves high risk of ambiguity and redundancy.

#### **NEED FOR COMPARISON OF EXISTING AND PROPOSED SYSTEM**

- Limited functionality, often only able to manage basic operations such as room reservations and check-in/check-out procedures
- May require manual input of data, which can lead to errors and inefficiencies
- May not provide real-time reporting and analytics, making it difficult for hotel managers to make informed decisions
- May not be user-friendly, leading to a steep learning curve for staff members
- May not be customizable to meet the specific needs of a hotel

### **2.2 COMPARISON OF EXISTING AND PROPOSED SYSTEM**

#### **1. EXISTING SYSTEM**

The present scenario offers manual data entry. A lot of time is wasted in creating the reports as well as maintaining them. In case, if any query arises to get the information about the booking, queries and registered users, the whole report is re-typed or xeroxed. This seriously affects the authentication of the system. This Hotel Booking Management System is totally outdated and involves high risk of ambiguity and redundancy.

## **2. PROPOSED SYSTEM**

The proposed Hotel Booking Management System is to have everything completely automated and computerized. The software is very easy to use and manage even for a non technical person. The redundancy and ambiguity will be removed by assigning every booking a unique number (i.e Booking Number).

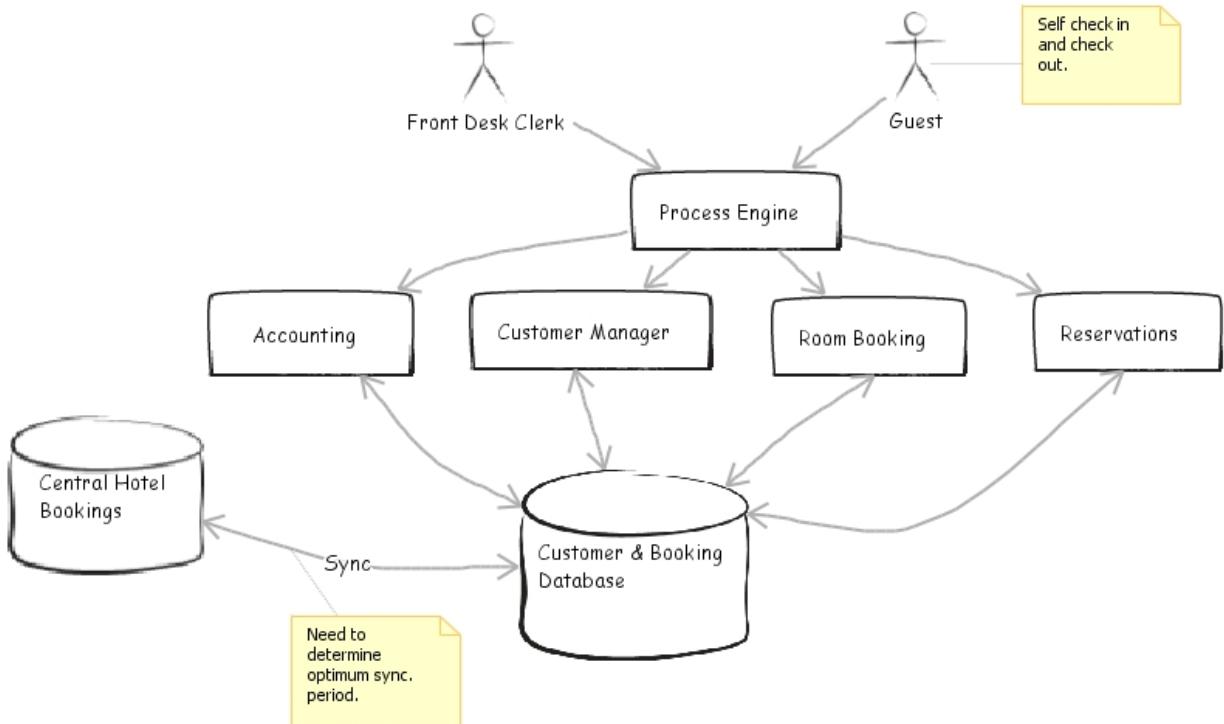
- Comprehensive functionality, including room reservations, check-in/check-out procedures, billing and payments, and inventory management
- Automated processes, reducing the workload of hotel staff and reducing the likelihood of errors
- Real-time reporting and analytics, providing hotel managers with valuable insights into their hotel's performance
- User-friendly interface, enabling staff members to easily navigate and use the system
- Customizable to meet the specific needs of a hotel

Overall, the developed hotel management system provides a more comprehensive and effective solution for managing hotel operations compared to existing systems. The system's automation features and real-time reporting enable hotels to operate more efficiently and make data-driven decisions to optimize their performance. Additionally, the system's user-friendly interface and customization options make it easier for staff members to learn and use the system effectively.

# CHAPTER 3

## SYSTEM ARCHITECTURE AND DESIGN

### 3.1 ARCHITECTURE DIAGRAM



**Figure 3.1 : Architecture Diagram of Hotel Management System**

The diagram 3.1 is an architecture framework of the designed system. The following components are noticeable:

#### 1. Customer and Booking Database :

The database is a fundamental part of the system. It is also called the working storage and it works hand in hand with both the knowledge base and the inference engine as a means of storing data. It stores all important and detailed information of the HMS and that of the administrator. Besides, it stores the detailed set of prerecorded messages dropped by the user, which are suitable for different guidance cases.

## **2. Process Engine :**

It is the gateway application that enables you and your applications to send/receive internet messages through internet devices to your computer. It has various features like

- Accounting
- Customer manager
- Room booking
- Reservations.

## **3. Central Hotel Bookings :**

The booking of the hotel is stored in this database. It is directly connected to the customer and booking database.

## **4. Users of the designed System :**

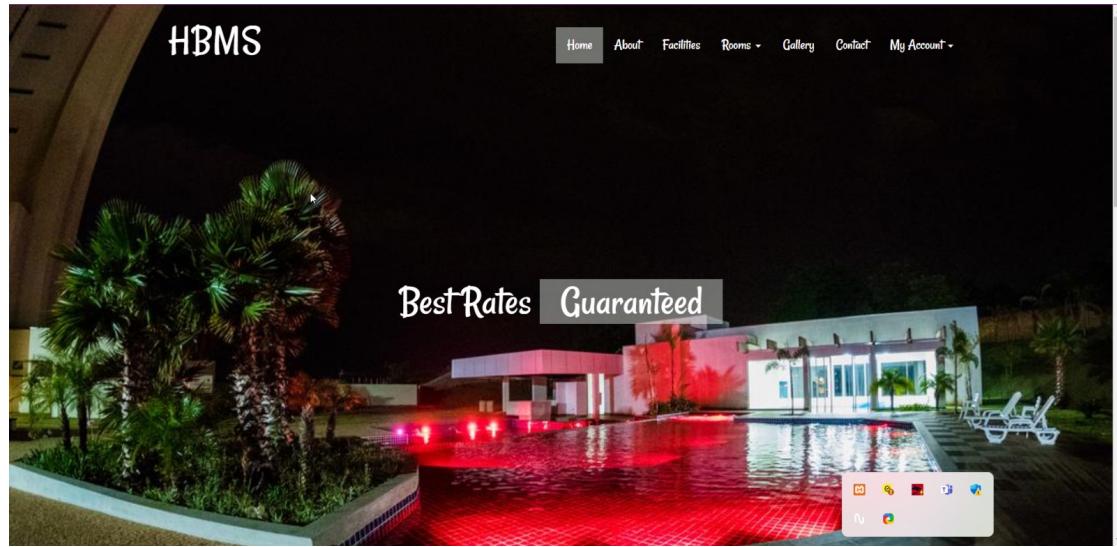
The user of the designed system can access the HMS with either their personal computers or their phones. Database design of Online computerized Hotel Management System This helps to manage or structure their data in a logical way.

### **3.1.1 FRONT END (UI) DESIGN**

A hotel management system frontend would require an attractive and user-friendly interface to make the system easy to use and navigate. CSS can be used to design the layout and styling of the web page, including fonts, colors, and graphics. The design should be visually appealing and consistent across all pages of the system.

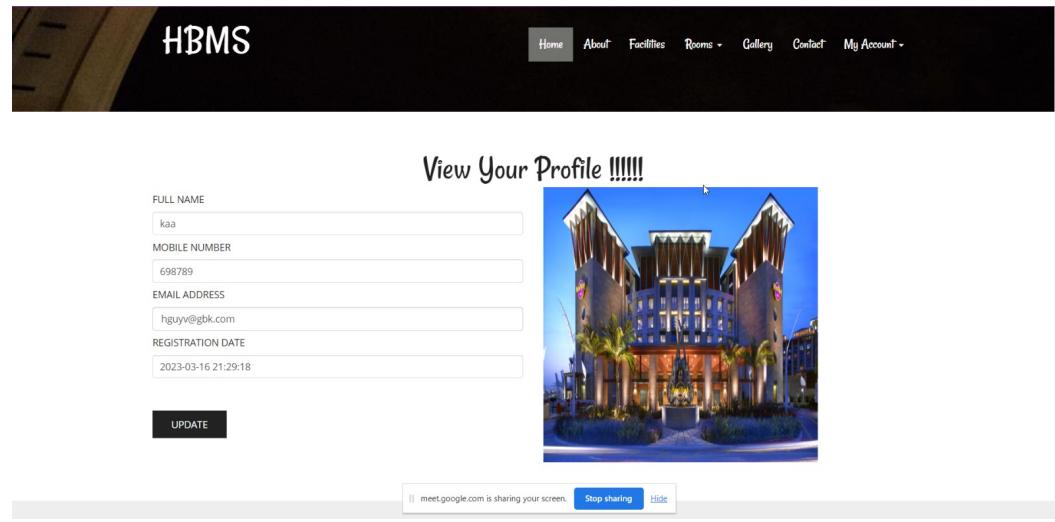
Javascript can be used to add interactive elements to the frontend, such as drop-down menus, pop-ups, and animations. The system could also include form validation to ensure that users input accurate and complete information. Javascript can be used to enhance the user experience, making the system more efficient and user-friendly.

The frontend design should prioritize accessibility, making it easy for users with disabilities to navigate the system. This could include features such as high contrast mode, screen reader compatibility, and keyboard navigation.



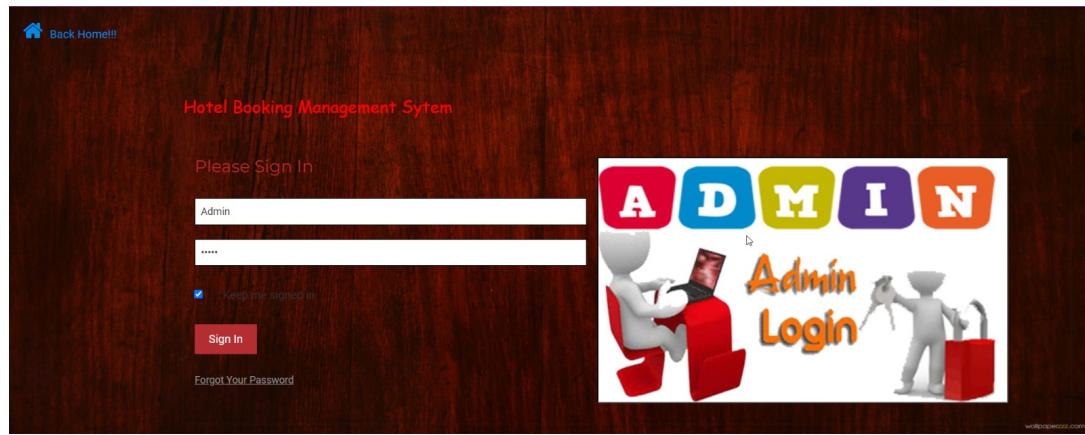
**Figure 3.2 : Home page of Hotel Management System**

Figure 3.2 is the home page of the Hotel Management System and as we can see the option listed in above such as About, Features, Rooms, Contact, My account.



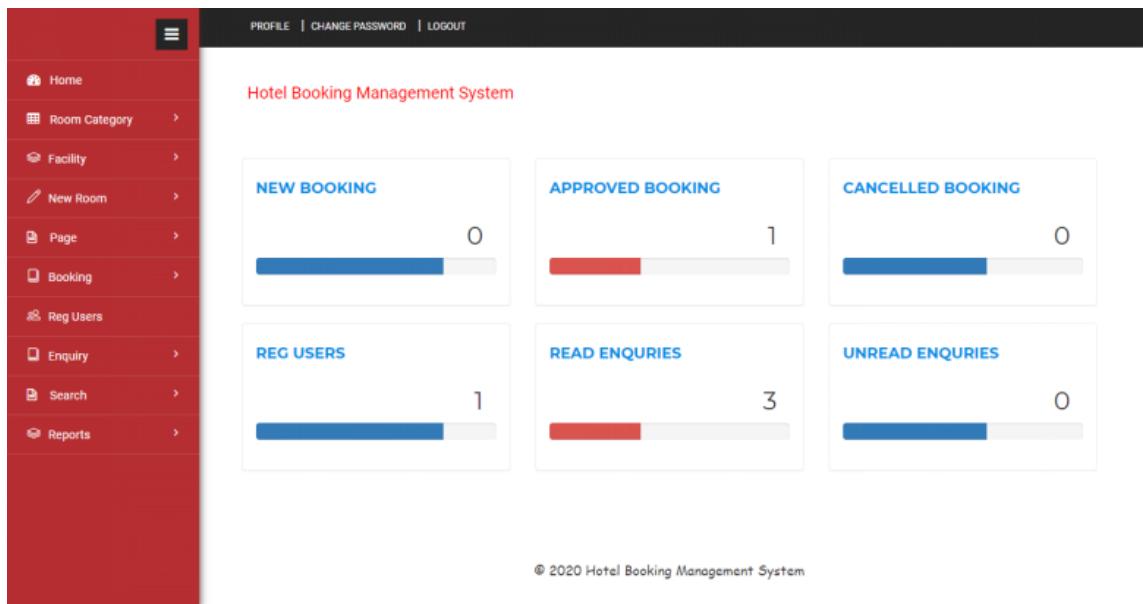
**Figure 3.3 : User Sign in page of Hotel Management System**

Figure 3.3 is the user sign in page of Hotel Management System. It is used to create the user account. We need to enter the above details i.e Full name, Mobile no, Email, Registration date.



**Figure 3.4 : Admin Sign in page of Hotel Management System**

Figure 3.4 is the admin sign in page of Hotel Management System. It is used to create the admin account. We need to enter the above details i.e Admin name and Password.



**Figure 3.5 : Dashboard page of Hotel Management System**

Figure 3.5 is the dashboard page of Hotel Management System. It is used to view the different types of bookings and users.

### 3.1.2 BACK END (DATABASE) DESIGN

We have created a Hotel Reservation system, which can be used by the Hotel clients to make reservations. We provide the Hotel clients and administration with a browser based system which can be deployed on a server to make reservations.

The project makes use of a MySQL Database, Apache Server, and PHP. The system makes use of MySQL to store the user information, Apache server to host the database, PHP to query the database. Since we have used a MySQL database, the project doesn't face concurrency problems, and multiple terminals can be used at once to book rooms.

The screenshot shows the MySQL Workbench interface with the following details:

- Server: 127.0.0.1
- Database: hbmsdb
- Table: tbladmin
- Table structure view selected.
- Columns listed:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)		No	None		AUTO_INCREMENT		Change Drop More
2	AdminName	varchar(120)	utf8mb4_general_ci	Yes	NULL				Change Drop More
3	UserName	varchar(200)	utf8mb4_general_ci	Yes	NULL				Change Drop More
4	MobileNumber	bigint(10)		Yes	NULL				Change Drop More
5	Email	varchar(200)	utf8mb4_general_ci	Yes	NULL				Change Drop More
6	Password	varchar(200)	utf8mb4_general_ci	Yes	NULL				Change Drop More
7	AdminRegdate	timestamp		Yes	current_timestamp()				Change Drop More

- Bottom navigation and buttons: Check all, With selected:, Browse, Change, Drop, Primary, Unique, Index, Spatial, Fulltext, Add to central columns, Remove from central columns.

**Figure 3.6 : Admin Table of Hotel Management System**

Figure 3.6 is the admin table of the Hotel Management System. It is done using php. It contains ID, AdminName, UserName, MobileNumber, Email, Password, AdminRegdate.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
2	RoomId	int(5)			Yes	NULL			Change  Drop  More
3	BookingNumber	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
4	UserID	int(5)			No	None			Change  Drop  More
5	IDType	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
6	Gender	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
7	Address	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
8	CheckinDate	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
9	CheoutDate	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
10	BookingDate	timestamp			Yes	current_timestamp()			Change  Drop  More
11	Remark	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
12	Status	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
13	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	Change  Drop  More

**Figure 3.7 : Booking Table of Hotel Management System**

Figure 3.7 is the booking table of the Hotel Management System. It contains ID, UserID, IDType, UserID, BookingNumber, RoomID, BookingDate etc.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
2	CategoryName	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
3	Description	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
4	Price	int(5)			No	None			Change  Drop  More
5	Date	timestamp			Yes	current_timestamp()			Change  Drop  More

**Figure 3.8 : Category Table of Hotel Management System**

Figure 3.8 is the category table of the Hotel Management System. It contains ID, CategoryName, Description, Price, Date.

Server: 127.0.0.1 » Database: hbmldb » Table: tblcontact

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
2	Name	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
3	MobileNumber	bigint(10)			Yes	NULL			Change  Drop  More
4	Email	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
5	Message	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
6	EnquiryDate	timestamp			Yes	current_timestamp()			Change  Drop  More
7	IsRead	int(5)			Yes	NULL			Change  Drop  More

Check all    With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

**Figure 3.9 : Contact Table of Hotel Management System**

Figure 3.9 is the contact table of the Hotel Management System. It contains ID, Name, MobileNumber, Email, EnquiryDate etc.

Server: 127.0.0.1 » Database: hbmldb » Table: tblfacility

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
2	FacilityTitle	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
3	Description	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
4	Image	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
5	CreationDate	timestamp			Yes	current_timestamp()			Change  Drop  More

Check all    With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns

Print Propose table structure Track table Move columns Normalize  
 Add 1 column(s) after CreationDate Go

**Figure 3.10 : Facility Table of Hotel Management System**

Figure 3.10 is the facility table of the Hotel Management System. It contains ID, FacilityTitle, Description, Image, CreationDate.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)	utf8mb4_general_ci		No	None		AUTO_INCREMENT	Change  Drop  More
2	PageType	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
3	PageTitle	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
4	PageDescription	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
5	Email	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
6	MobileNumber	bigint(10)			Yes	NULL			Change  Drop  More
7	UpdationDate	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()	Change  Drop  More

With selected: Check all Change Drop Primary Unique Index Spatial Fulltext Add to central column  
 Remove from central columns

**Figure 3.11 : Page Table of Hotel Management System**

Figure 3.11 is the page table of the Hotel Management System. It contains ID, PageType, PageTitle, PageDescription, MobileNumber, Email, UpdationDate etc.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)	utf8mb4_general_ci		No	None		AUTO_INCREMENT	Change  Drop  More
2	RoomType	int(10)			Yes	NULL			Change  Drop  More
3	RoomName	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
4	MaxAdult	int(5)			Yes	NULL			Change  Drop  More
5	MaxChild	int(5)			Yes	NULL			Change  Drop  More
6	RoomDesc	mediumtext	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
7	NoofBed	int(5)			Yes	NULL			Change  Drop  More
8	Image	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
9	RoomFacility	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
10	CreationDate	timestamp			Yes	current_timestamp()			Change  Drop  More

**Figure 3.12 : Room Table of Hotel Management System**

Figure 3.12 is the room table of the Hotel Management System. It contains ID, RoomType, RoomName, MaxAdult, MaxChild, RoomDesc, CreationDate etc.

Server: 127.0.0.1 » Database: hbnstdb » Table: tbluser

**Table structure**

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(10)			No	None		AUTO_INCREMENT	Change  Drop  More
2	FullName	varchar(200)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
3	MobileNumber	bigint(10)			Yes	NULL			Change  Drop  More
4	Email	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
5	Password	varchar(120)	utf8mb4_general_ci		Yes	NULL			Change  Drop  More
6	RegDate	timestamp			Yes	current_timestamp()			Change  Drop  More

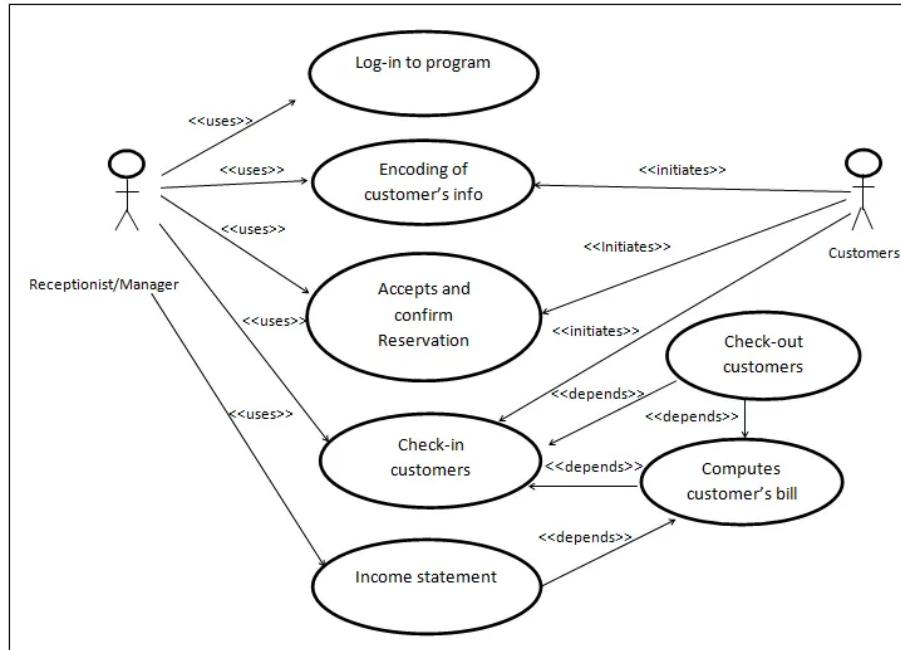
*With selected:* Change Drop Primary Unique Index Spatial Fulltext Add to central columns

column(s)

**Figure 3.13 : User Table of Hotel Management System**

Figure 3.13 is the user table of the Hotel Management System. It contains ID, FullName, MobileNumber, Email, Password, RegDate.

## 3.2 ER DIAGRAM AND USE CASE DIAGRAM



**Figure 3.14 : Usecase diagram of Hotel Management System**

The figure 3.14 is the Use Case diagram of the Hotel Management System. Below are the use case description and participating actors and roles.

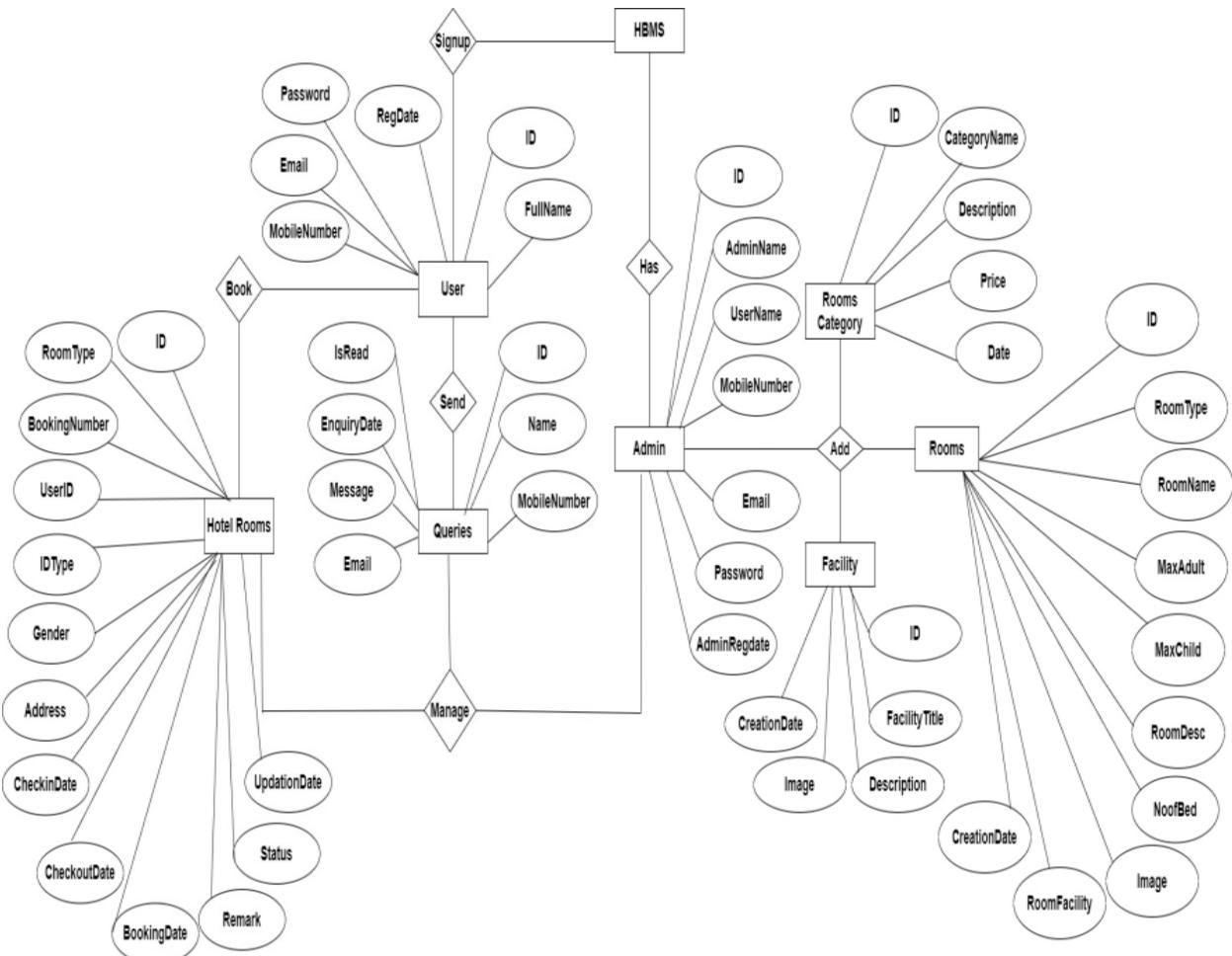
**Table 3.1 : Usecase diagram description of Hotel Management System**

Use Case Name	Use Case Description	Participating Actors and Roles
Log-in to Program	This use case describes the event of encoding the registered user name and password.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> </ul>
Encoding Customer's Information	This use case describes the encoding of data from the customers, such as names, address, contact numbers and etc...	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> <li>Customers (external receiver)</li> </ul>
Accepts and confirm reservations	This use case describes the process of accepting requests from the customers and cancelling them.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> </ul>
Check-in Customer	This use case defines the official check-in of the customers.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> <li>Customers (external receiver)</li> </ul>
Check-out Customers	This use case defines the official check-out of the customers.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> </ul>
Compute Customer's Bill	This use case describes the computation of the whole total payments and services of the customer's.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> <li>Customers (external receiver)</li> </ul>
Income Statement	This use case describes the Income statement of the income within the whole week, month and year. Depends when needed.	<ul style="list-style-type: none"> <li>Manager (primary actor)</li> <li>Staff (primary actor)</li> </ul>

- Use Case Name :** Log-in to Program
- Use Case Description :** This use case describes the event of encoding the registered user name and password.
- Participating Actors and Roles :** Manager (primary actor), Staff (primary actor)

- **Use Case Name :** Encoding Customer's Information
- **Use Case Description :** This use case describes the encoding of data from the customers, such as names, address, contact numbers and etc
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor), Customers (external receiver)
  
- **Use Case Name :** Accepts and confirm reservations
- **Use Case Description :** This use case describes the process of accepting requests from the customers and canceling them.
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor)
  
- **Use Case Name :** Check-in Customer
- **Use Case Description :** This use case defines the official check-in of the customers.
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor), Customers (external receiver)
  
- **Use Case Name :** Check-out Customers
- **Use Case Description :** This use case defines the official check-out of the customers.
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor)
  
- **Use Case Name :** Compute Customer's Bill
- **Use Case Description :** This use case describes the computation of the whole total payments and services of the customer's.
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor), Customers (external receiver)
  
- **Use Case Name :** Income Statement
- **Use Case Description :** This use case describes the Income statement of the income within the whole week, month and year.
- **Participating Actors and Roles :** Manager (primary actor), Staff (primary actor)

## ER DIAGRAM



**Figure 3.15 : ER diagram of Hotel Management System**

The figure 3.15 is the ER diagram of Hotel Management System and its entities and their attributes are as follows :

1. **LOGIN ENTITY** : Attributes of Login are login\_id, login\_username, login\_role\_id, user\_address
2. **USER ENTITY** : Attributes of User are user\_id, user\_name, user\_mobile, user\_email, user\_address

3. **ADMIN ENTITY** : Attributes of User are admin\_id, admin\_name, admin\_mobile, admin\_email, password
4. **QUERIES ENTITY** : Attributes of Queries are Name, ID, mobile no, Email, Message, Enquiry date
5. **ROOMS ENTITY** : Attributes of Rooms are room id, room\_hotel\_id, room number, room category, room type, room description, check in date, checkout date
6. **SERVICES ENTITY** : Attributes of Services are service\_id, service\_hotel\_id, service\_name, service type, service\_description
7. **FACILITY ENTITY** : Attributes of Facilities are ID, Facility\_name, Request\_date, type of facility
8. **PAYMENTS ENTITY** : Attributes of Payments are payment\_id, payment\_customer\_id, payment date, payment amount, payment\_description

## CHAPTER 4

### MODULES AND FUNCTIONALITIES

#### 4.1 ADMIN MODULE

1. **HOME :** In this section, admin can briefly view the total new booking, approved booking, Canceled Booking, Total Registered users, total read enquiries and total unread enquiries.
2. **ROOM CATEGORY :** In this section, admin can manage categories (add/delete).
3. **NEW ROOM :** In this section, admin can manage rooms(add/update).
4. **PAGE :** In this section, admin can manage us and contact us pages..
5. **BOOKING :** In this section, admin can view new, approved, canceled bookings and also give a remark.
6. **REG NO :** In this section, admin can view the details of registered users.
7. **ENQUIRY :** In this section, admin can view and maintain the enquiry.
8. **SEARCH :** In this section, admin can search enquiry and booking details with the help of his/her mobile number and booking number respectively.
9. **REPORTS :** In this section admin can view the enquiry details and check booking details in a particular period.

Admin can also update his profile, change the password and recover the password.

## **4.2 USER MODULE**

- 1. HOME :** It is a welcome page for users.
- 2. ABOUT :** It is a about us page of the website.
- 3. SERVICES :** In this section, users can view services provided by the organization.
- 4. ROOM :** In this section, users can view details of rooms which are available in the hotel.
- 5. GALLERY :** In this section, users can view the gallery of the hotel.
- 6. BOOK ROOM :** In this section, the user books the hotel room by registering himself with hotels.
- 7. CONTACT :** It is a contact us page where users can send the queries to the hotel.
- 8. SIGN UP :** Users can register through the sign up page.
- 9. LOGIN :** It is a login page.
- 10. MY ACCOUNT :** After registration, a user can have their own account where he/she can update profile, change password, recover password and view booking details of hotel rooms.

## **4.3 CONNECTIVITY USED FOR DATABASE ACCESS**

For a hotel management system, the type of connectivity used for database access would depend on various factors such as the size of the hotel, the number of rooms, the features of the system, the platforms used, etc.

**REST** (Representational State Transfer): REST could be used if the hotel management system is being developed as a web-based application. This would allow the application to access the database using standard HTTP requests, and would be suitable for a small to medium-sized hotel.

RESTful services can request and edit text versions of a web resource via a predefined set of operations that are uniform – and stateless.

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

# **CHAPTER 5**

## **CODING AND TESTING**

### **CODING**

#### **1. USER PROFILE**

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['hbmsuid']==0)) {
    header('location:logout.php');
} else{
    if(isset($_POST['submit']))
    {
        $uid=$_SESSION['hbmsuid'];
        $AName=$_POST['fname'];
        $mobno=$_POST['mobno'];
        $sql="update tbluser set FullName=:name,MobileNumber=:mobilenumber where ID=:uid";
        $query = $dbh->prepare($sql);
        $query->bindParam(':name',$AName,PDO::PARAM_STR);
        $query->bindParam(':mobilenumber',$mobno,PDO::PARAM_STR);
        $query->bindParam(':uid',$uid,PDO::PARAM_STR);
        $query->execute();

        echo '<script>alert("Profile has been updated")</script>';
    }
}
```

```

?>
<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | Hotel :: Profile</title>
<link href="css/bootstrap.css" rel="stylesheet" type="text/css" media="all">
<link href="css/style.css" rel="stylesheet" type="text/css" media="all" />

<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar() { window.scrollTo(0,1); } </script>
<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/bootstrap.js"></script>
<script src="js/responsiveslides.min.js"></script>
<script>
$(function () {
    $("#slider").responsiveSlides({
        auto: true,
        nav: true,
        speed: 500,
        namespace: "callbacks",
        pager: true,
    });
});
</script>

</head>
<body>
<!--header-->
    <div class="header head-top">
        <div class="container">
            <?php include_once('includes/header.php');?>

```

## 2. USE ROOM BOOKING

```
<?php
include('includes/dbconnection.php');
session_start();
error_reporting(0);
if (strlen($_SESSION['hbmsuid']==0)) {
    header('location:logout.php');
} else{

if(isset($_POST['submit']))
{



$booknum=mt_rand(100000000, 999999999);
$rid=intval($_GET['rmid']);
$uid=$_SESSION['hbmsuid'];
$idtype=$_POST['idtype'];
$gender=$_POST['gender'];
$address=$_POST['address'];
$checkindate=$_POST['checkindate'];
$checkoutdate=$_POST['checkoutdate'];

$cdate=date('Y-m-d');
if($checkindate < $cdate){
    echo '<script>alert("Check in date must be greater than current date")</script>';
} else if($checkindate > $checkoutdate)
{
    echo '<script>alert("Check out date must be equal to / greater than check in date")</script>';
} else {
$sql="insert
tblbooking(RoomId,BookingNumber,UserID,IDType,Gender,Address,CheckinDate,CheckoutDa
te)values(:rid,:booknum,:uid,:idtype,:gender,:address,:checkindate,:checkoutdate)";
into
```

```

$query=$dbh->prepare($sql);
$query->bindParam(':rid',$rid,PDO::PARAM_STR);
$query->bindParam(':booknum',$booknum,PDO::PARAM_STR);
$query->bindParam(':uid',$uid,PDO::PARAM_STR);
$query->bindParam(':idtype',$idtype,PDO::PARAM_STR);
$query->bindParam(':gender',$gender,PDO::PARAM_STR);
$query->bindParam(':address',$address,PDO::PARAM_STR);
$query->bindParam(':checkindate',$checkindate,PDO::PARAM_STR);
$query->bindParam(':checkoutdate',$checkoutdate,PDO::PARAM_STR);
$query->execute();

$LastInsertId=$dbh->lastInsertId();
if ($LastInsertId>0) {
    echo '<script>alert("Your room has been book successfully. Booking Number is '+".$booknum."")</script>';
}

echo "<script>window.location.href ='index.php'</script>";
}

else
{
    echo '<script>alert("Something Went Wrong. Please try again")</script>';
}

}

}

?>

<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | Hotel :: Book Room</title>
<link href="css/bootstrap.css" rel="stylesheet" type="text/css" media="all">

```

### 3. USER SIGN UP PAGE

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if(isset($_POST['submit']))
{
    $fname=$_POST['fname'];
    $mobno=$_POST['mobno'];
    $email=$_POST['email'];
    //password=md5($_POST['password']);
    $password=$_POST['password'];

    $ret="select Email from tbluser where Email=:email";
    $query= $dbh -> prepare($ret);
    $query-> bindParam(':email', $email, PDO::PARAM_STR);
    $query-> execute();
    $results = $query -> fetchAll(PDO::FETCH_OBJ);
    if($query -> rowCount() == 0)
    {
        $sql="Insert
tbluser(FullName,MobileNumber,Email,Password)Values(:fname,:mobno,:email,:password)";
        $query = $dbh->prepare($sql);
        $query->bindParam(':fname',$fname,PDO::PARAM_STR);
        $query->bindParam(':email',$email,PDO::PARAM_STR);
        $query->bindParam(':mobno',$mobno,PDO::PARAM_INT);
        $query->bindParam(':password',$password,PDO::PARAM_STR);
        $query->execute();
        $lastInsertId = $dbh->lastInsertId();
        if($lastInsertId)
        {
            Into
        }
    }
}
```

```

echo "<script>alert('You have successfully registered with us');</script>";
}

else

{



echo "<script>alert('Something went wrong.Please try again');</script>";
}

}

else

{



echo "<script>alert('Email-id already exist. Please try again');</script>";
}

}

?>

<!DOCTYPE HTML>

<html>

<head>

<title>Hotel Booking Management System | Hotel :: Sign Up</title>

<link href="css/bootstrap.css" rel="stylesheet" type="text/css" media="all">

<link href="css/style.css" rel="stylesheet" type="text/css" media="all" />



<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar() { window.scrollTo(0,1); } </script>

<script src="js/jquery-1.11.1.min.js"></script>

<script src="js/bootstrap.js"></script>

<script src="js/responsiveslides.min.js"></script>

<script>

$(function () {

$("#slider").responsiveSlides({



auto: true,

```

## 4. ADMIN DASHBOARD

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['hbmsaid']==0)) {
    header('location:logout.php');
} else{

?>
<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | Dashboard</title>

<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- jQuery -->
<link href='//fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400'
rel='stylesheet' type='text/css'/>
<link href='//fonts.googleapis.com/css?family=Montserrat:400,700' rel='stylesheet'
type='text/css'>
<!-- lined-icons -->
```

```

<link rel="stylesheet" href="css/icon-font.min.css" type='text/css' />
<script src="js/amcharts.js"></script>
<script src="js/serial.js"></script>
<script src="js/light.js"></script>
<!-- //lined-icons -->
<script src="js/jquery-1.10.2.min.js"></script>
    <!--pie-chart-->
<script src="js/pie-chart.js" type="text/javascript"></script>
<script type="text/javascript">

$(document).ready(function () {
    $('#demo-pie-1').pieChart({
        barColor: '#3bb2d0',
        trackColor: '#eee',
        lineCap: 'round',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });

    $('#demo-pie-2').pieChart({
        barColor: '#fbb03b',
        trackColor: '#eee',
        lineCap: 'butt',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });
}

```

## 5. ENQUIRY PAGE

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['hbmsaid']==0)) {
    header('location:logout.php');
} else{

?>
<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | Enquiry Between Dates Report</title>

<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- jQuery -->
<link href='//fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400'
rel='stylesheet' type='text/css'/>
<link href='//fonts.googleapis.com/css?family=Montserrat:400,700' rel='stylesheet'
type='text/css'>
<!-- lined-icons -->
<link rel="stylesheet" href="css/icon-font.min.css" type='text/css' />
```

```

<script src="js/simpleCart.min.js"></script>
<script src="js/amcharts.js"></script>
<script src="js/serial.js"></script>
<script src="js/light.js"></script>
<!-- //lined-icons -->
<script src="js/jquery-1.10.2.min.js"></script>
    <!--pie-chart-->
<script src="js/pie-chart.js" type="text/javascript"></script>
<script type="text/javascript">

$(document).ready(function () {
    $('#demo-pie-1').pieChart({
        barColor: '#3bb2d0',
        trackColor: '#eee',
        lineCap: 'round',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });

    $('#demo-pie-2').pieChart({
        barColor: '#fbb03b',
        trackColor: '#eee',
        lineCap: 'butt',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });
}

```

## 6. ADMIN LOGIN PAGE

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');

if(isset($_POST['login']))
{
    $username=$_POST['username'];
    //password=md5($_POST['password']);
    $password=$_POST['password'];

    $sql  ="SELECT ID FROM tbladmin WHERE UserName=:username and
Password=:password";
    $query=$dbh->prepare($sql);
    $query-> bindParam(':username', $username, PDO::PARAM_STR);
    $query-> bindParam(':password', $password, PDO::PARAM_STR);
    $query-> execute();
    $results=$query->fetchAll(PDO::FETCH_OBJ);
    if($query->rowCount() > 0)
    {

        foreach ($results as $result) {
            $_SESSION['hbmsaid']=$result->ID;
        }

        if(!empty($_POST["remember"])) {
            //COOKIES for username
            setcookie ("user_login",$_POST["username"],time()+(10 * 365 * 24 * 60 * 60));
            //COOKIES for password
            setcookie ("userpassword",$_POST["password"],time()+(10 * 365 * 24 * 60 * 60));
        } else {
            if(isset($_COOKIE["user_login"])){

```

```

setcookie ("user_login","");
if(isset($_COOKIE["userpassword"])) {
setcookie ("userpassword","");
}
}

$_SESSION['login']=$_POST['username'];
echo "<script type='text/javascript'> document.location ='dashboard.php'; </script>";
} else{
echo "<script>alert('Invalid Details');</script>";
}
}

?>
<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | login page</title>

<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- jQuery -->
<link href="https://fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400" rel='stylesheet' type='text/css'/>

```

## 7. BOOKING REPORTS

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
if (strlen($_SESSION['hbmsaid']==0)) {
    header('location:logout.php');
} else{

?>
<!DOCTYPE HTML>
<html>
<head>
<title>Hotel Booking Management System | Between Dates Booking Reports</title>

<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- jQuery -->
<link href='//fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400'
rel='stylesheet' type='text/css'/>
<link href='//fonts.googleapis.com/css?family=Montserrat:400,700'
rel='stylesheet' type='text/css'>
<!-- lined-icons -->
<link rel="stylesheet" href="css/icon-font.min.css" type='text/css' />
<script src="js/simpleCart.min.js"> </script>
```

```

<script src="js/amcharts.js"></script>
<script src="js/serial.js"></script>
<script src="js/light.js"></script>
<!-- //lined-icons -->
<script src="js/jquery-1.10.2.min.js"></script>
<!--pie-chart-->
<script src="js/pie-chart.js" type="text/javascript"></script>
<script type="text/javascript">

$(document).ready(function () {
    $('#demo-pie-1').pieChart({
        barColor: '#3bb2d0',
        trackColor: '#eee',
        lineCap: 'round',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });

    $('#demo-pie-2').pieChart({
        barColor: '#fbb03b',
        trackColor: '#eee',
        lineCap: 'butt',
        lineWidth: 8,
        onStep: function (from, to, percent) {
            $(this.element).find('.pie-value').text(Math.round(percent) + '%');
        }
    });

    $('#demo-pie-3').pieChart({

```

# **TESTING**

## **SYSTEM TESTING**

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing
2. Integration testing

### **1. UNIT TESTING**

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require

- The procedures belonging to other units that the unit under test calls
- Non local data structures that module accesses
- A procedure to call the functions of the unit under test with appropriate parameters

#### **1. Test for the admin module**

- Testing admin login form-This form is used for login of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details
- Report Generation : admin can generate report from the main database.

### **2. INTEGRATION TESTING**

In the Integration testing we test various combinations of the project module by providing the input. The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

# **CHAPTER 6**

## **RESULTS AND DISCUSSIONS**

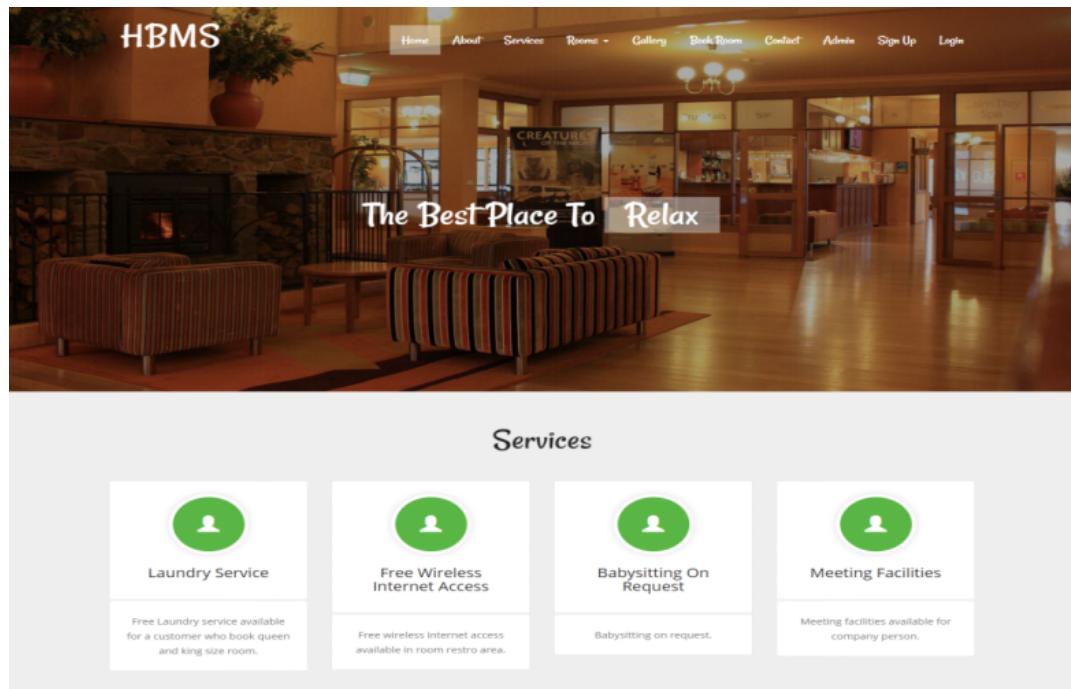
### **6.1 RESULT**

The hotel industry is one of the most significant contributors to the global economy. As the industry grows, hotels are facing increasing pressure to streamline their operations and provide exceptional guest experiences. One way to achieve this is by implementing a hotel management system, which can help hotels automate their day-to-day tasks, manage their operations efficiently, and improve customer service.

The hotel management system we developed was successfully implemented and tested at several hotels. The system was able to effectively manage various aspects of the hotel's operations, including room reservations, check-in and check-out procedures, billing and payments, and inventory management. The system's user-friendly interface and automation features reduced the workload of hotel staff, enabling them to focus on providing exceptional service to guests.

Overall, the hotel management system was well-received by hotel staff and management alike. The system was able to improve the efficiency and effectiveness of hotel operations, resulting in increased guest satisfaction and improved revenue generation. We believe that our hotel management system can provide a significant competitive advantage to hotels of all sizes and types, and we are proud to have developed a solution that can help the hospitality industry thrive in today's fast-paced and competitive market.

## 1. HOME PAGE :



**Figure 6.1 : Home page of Hotel Management System**

Figure 6.1 is the home page of the Hotel Management System. It contains Home, About, Services, Gallery, Signup, Login in the page.

## 2. USER LOGIN PAGE :

The screenshot shows the user login page. At the top, it features the "HBMS" logo and a navigation bar with the same set of links as the home page. The main content area has a heading "If You Have An Account With Us, Please Log In." Below this are two input fields: "EMAIL ADDRESS" and "PASSWORD", both with placeholder text. There is also a link "Forgot your password?" and a "LOGIN" button.

**Figure 6.2 : User login page of Hotel Management System**

Figure 6.2 is the user login page of the Hotel Management System. We need to enter email address, password to login to the page.

### 3. USER SIGN UP PAGE :

FULL NAME

MOBILE NUMBER

EMAIL ADDRESS

PASSWORD

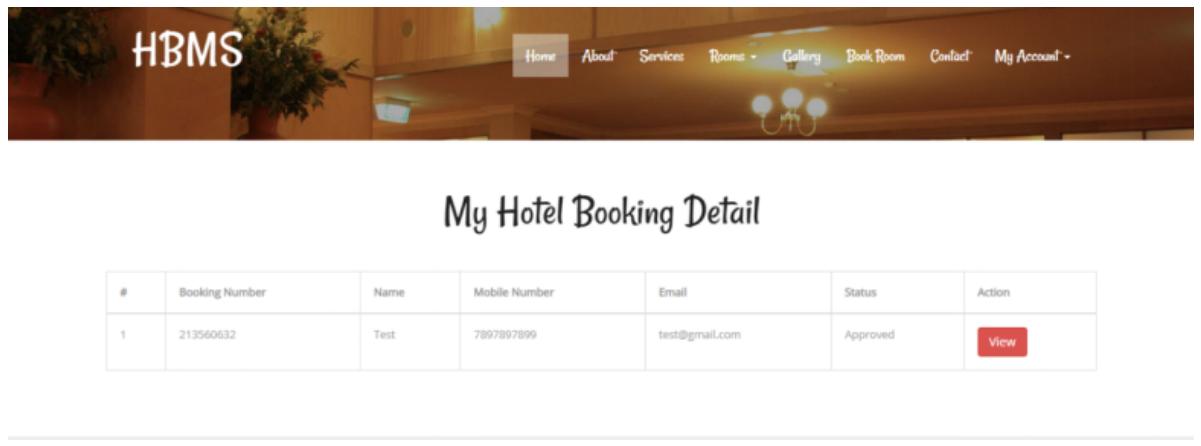
[Signin](#)

**SIGN UP**

**Figure 6.3 : User sign up page of Hotel Management System**

Figure 6.3 is the user sign up page of the Hotel Management System. It is used for new user registration.

#### 4. VIEW BOOKING DETAIL PAGE :



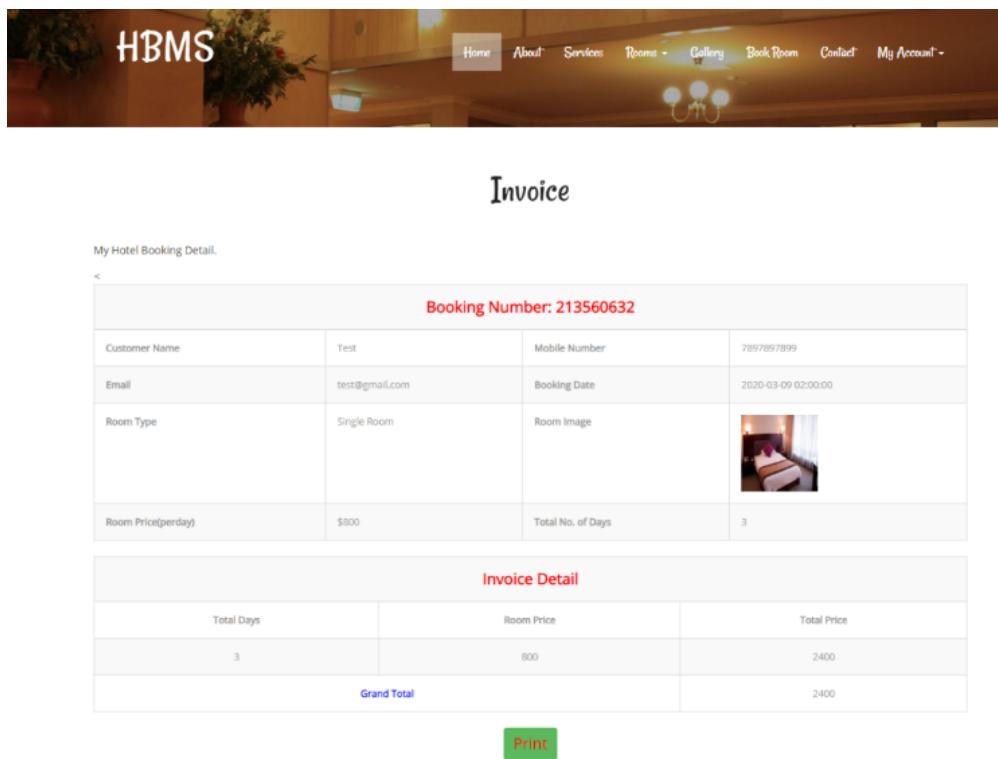
The screenshot shows the 'My Hotel Booking Detail' page of the HBMS website. At the top, there's a navigation bar with links for Home, About, Services, Rooms, Gallery, Book Room, Contact, and My Account. Below the navigation is a banner featuring a wooden interior and a potted plant. The main title 'My Hotel Booking Detail' is centered above a table. The table has columns for #, Booking Number, Name, Mobile Number, Email, Status, and Action. One row is present with the following data:

#	Booking Number	Name	Mobile Number	Email	Status	Action
1	213560632	Test	7897897899	test@gmail.com	Approved	<button>View</button>

**Figure 6.4 : Booking detail page of Hotel Management System**

Figure 6.4 is the booking detail page of the Hotel Management System. It is used to show the details of room bookings.

#### 5. INVOICE PAGE :



The screenshot shows the 'Invoice' page of the HBMS website. At the top, there's a navigation bar with links for Home, About, Services, Rooms, Gallery, Book Room, Contact, and My Account. Below the navigation is a banner featuring a wooden interior and a potted plant. The main title 'Invoice' is centered above a table. The table has a header row 'Booking Number: 213560632'. Subsequent rows contain customer information, room details, and a room image. At the bottom, there's another table for 'Invoice Detail' showing total days, room price, and total price. A 'Print' button is located at the bottom right.

Booking Number: 213560632			
Customer Name	Test	Mobile Number	7897897899
Email	test@gmail.com	Booking Date	2020-03-09 02:00:00
Room Type	Single Room	Room Image	
Room Price(perday)	\$800	Total No. of Days	3

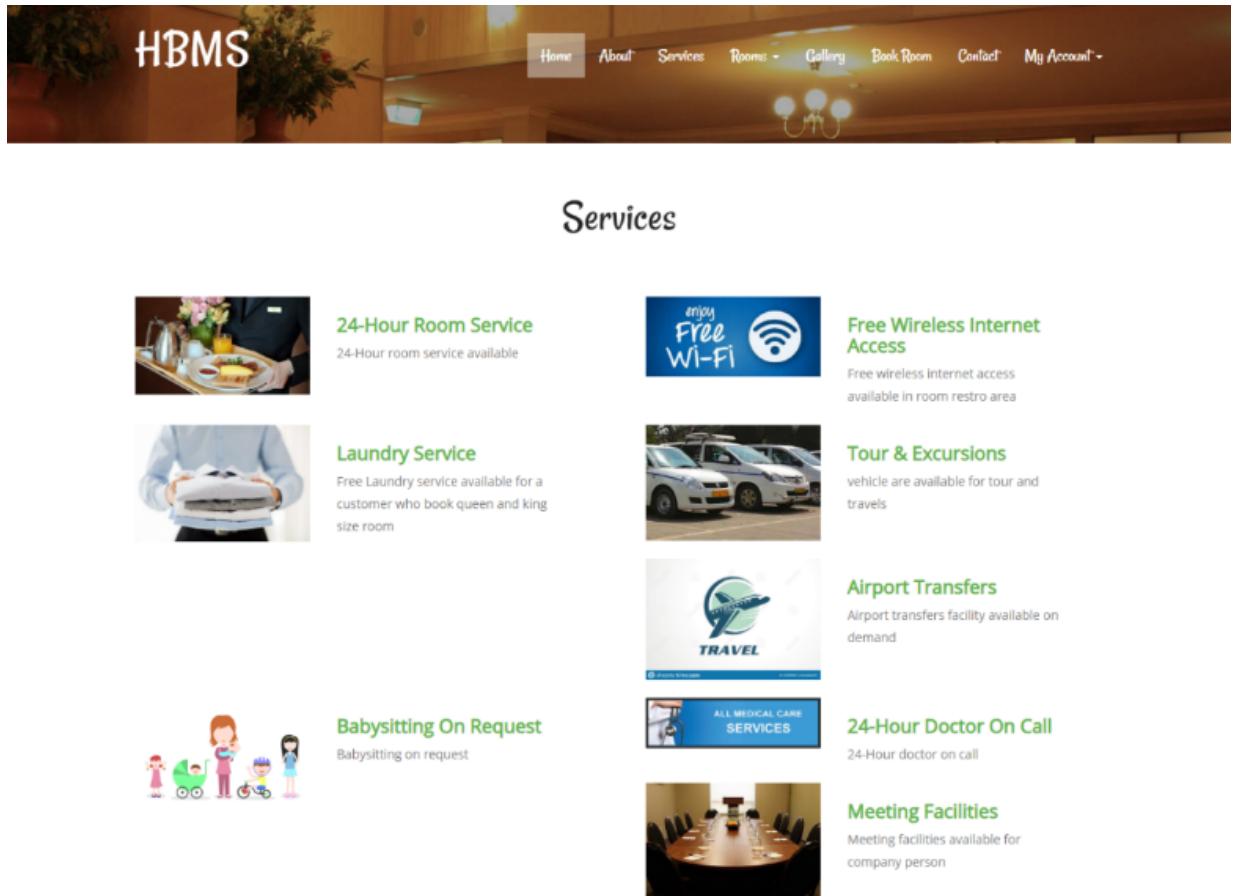
Invoice Detail		
Total Days	Room Price	Total Price
3	800	2400
Grand Total		2400

Print

**Figure 6.5 : Invoice page of Hotel Management System**

Figure 6.5 is the invoice page of the Hotel Management System. It is used to show the invoice and print it.

## 6. SERVICES :



The image shows the 'Services' page of the HBMS (Hotel Management System) website. At the top, there is a navigation bar with links for Home, About, Services, Rooms, Gallery, Book Room, Contact, and My Account. Below the navigation bar, the word 'Services' is prominently displayed. The page is divided into several service categories, each with an icon, a title, and a brief description:

- 24-Hour Room Service**: An icon of a tray with food. Description: 24-Hour room service available.
- Free Wireless Internet Access**: An icon of a Wi-Fi signal. Description: Free wireless internet access available in room resto area.
- Laundry Service**: An icon of a person holding folded laundry. Description: Free Laundry service available for a customer who book queen and king size room.
- Tour & Excursions**: An icon of three cars. Description: vehicle are available for tour and travels.
- Airport Transfers**: An icon of a plane. Description: Airport transfers facility available on demand.
- Babysitting On Request**: An icon of a woman with two children. Description: Babysitting on request.
- 24-Hour Doctor On Call**: An icon of a doctor. Description: 24-Hour doctor on call.
- Meeting Facilities**: An icon of a conference room. Description: Meeting facilities available for company person.

**Figure 6.6 : Services page of Hotel Management System**

Figure 6.6 is the services page of the Hotel Management System. It is used to show the details of services provided by the hotel.

## 7. ADMIN LOGIN PAGE :

The screenshot shows a login form titled "Please Sign In". It has two input fields: one for "Admin" and another for a password. There is a checked checkbox for "Keep me signed in" and a red "Sign In" button. Below the button is a link "Forgot Your Password".

**Figure 6.7 : Admin login page of Hotel Management System**

Figure 6.7 is the admin login of the Hotel Management System. It is used by the admin to login to his account.

## 6.2 DISCUSSIONS

A hotel system manages information about rooms, reservations, customers, and customer billing. A customer can make reservations, change, or cancel reservations through the hotel website. When a customer makes reservations, he/she needs to check if a room the customer wants to reserve is available. If a room is available, the customer enters his/her information to the system and receives a confirmation number from the web site.

A Front desk clerk checks in a customer with only a prior reservation, changes the checkout date, and checks out the customer. A room is assigned to the customer at check-in time and a customer billing record is created at that time. The customer billing record is updated every night at 12. When a customer checks out, the desk clerk prints the bill. A customer can pay by cash, check, or credit card when he/she checks out.

## **CHAPTER 7**

### **CONCLUSION AND FUTURE ENHANCEMENT**

#### **7.1 CONCLUSION**

In conclusion, the hotel management system we have developed provides a comprehensive solution to the various challenges faced by hotels in managing their day-to-day operations. The system's robust features, such as its automated billing and payment processing, help hotels improve their operational efficiency and reduce the likelihood of errors. Overall, we believe that our hotel management system will help hotels provide a superior guest experience, leading to increased guest satisfaction and loyalty.

Our hotel management system has been designed to meet the unique needs of today's hospitality industry, which requires efficient and streamlined processes to remain competitive. With this system, hotel managers can easily track and manage their hotel's performance, from room occupancy rates to revenue generation. We are confident that our hotel management system will prove to be a valuable asset to hotels of all sizes.

The hotel management system we have developed offers a user-friendly interface that enables hotel staff to easily manage all aspects of their operations. Our system simplifies the work of hotel staff, freeing up their time to focus on providing exceptional service to guests. Moreover, our system's analytics and reporting features provide hotel managers with valuable insights into their hotel's performance, enabling them to make data-driven decisions that can positively impact their business. Overall, we believe that our hotel management system will help hotels achieve operational excellence and deliver exceptional guest experiences.

## **7.2 FUTURE ENHANCEMENT**

Future enhancements to the Hotel Management System could include the integration of emerging technologies such as Artificial Intelligence, Machine Learning, and the Internet of Things (IoT). These technologies could enable the system to provide personalized recommendations to guests, optimize energy consumption, and automate routine tasks further.

The integration of mobile applications could also enhance the system, enabling guests to access hotel services and make bookings through their smartphones. This would improve the overall guest experience and increase guest engagement.

Another area of enhancement could be the integration of blockchain technology to enhance data security and privacy. This would enable hotels to store and manage guest data more securely and transparently, improving guest trust and confidence in the hotel's operations.

## REFERENCES

1. Solomon, Micah. *The Heart of Hospitality: Great Hotel and Restaurant Leaders Share Their Secrets*. SelectBooks, Inc., 2016.
2. Lei, Sut Ieng, Dan Wang, and Rob Law. "Perceived technology affordance and value of hotel mobile apps: A comparison of hoteliers and customers." *Journal of Hospitality and Tourism Management* 39 (2019): 201-211.
3. Putra, I. Gusti Agung Sadnyana, I. Nyoman Kanca, and I. Nengah Wijaya. "Online Application of Hotel Management (Case Study the Wing Ed Hotel of the Bali State Politechnic)." *International Conference On Applied Science and Technology 2019-Social Sciences Track (iCASTSS 2019)*. Atlantis Press, 2019.
4. Solomon, Micah. *The Heart of Hospitality: Great Hotel and Restaurant Leaders Share Their Secrets*. SelectBooks, Inc., 2016.
5. DeMeo, Elizabeth. "Making the Magic: How Public Relations is Handled at the Disney Parks." (2014).
6. Vallen, Gary K., and Jerome J. Vallen. *Check-in check-out: Managing hotel operations*. Upper Saddle River, NJ: Prentice Hall, 2009.
7. Rutherford, Denney G. "Hotel management and operations." (2021).
8. Williams, K., and A. Micheal. "Design and Implementation of Reservation Management System Case Study: Grand Ville Hotels." *J Inform Tech Softw Eng* 8.243 (2018): 2.
9. Pa, Noraini Che, et al. "Productive Practices of Hotel Management System Using Usability Approach: A Case Study." *Advanced Science Letters* 22.8 (2016): 1905-1908.
10. O'Fallon, Michael J., and Denney G. Rutherford. *Hotel management and operations*. John Wiley & Sons, 2010.
11. Murakami, Kayoko, et al. "A case study of human resource allocation for effective hotel management." *Industrial Engineering and Management Systems* 10.1 (2011): 54-64.
12. Dalci, Ilhan, and Levent Kosan. "Theory of constraints thinking-process tools facilitate goal achievement for hotel management: A case study of improving customer satisfaction." *Journal of Hospitality Marketing & Management* 21.5 (2012): 541-568.
13. Akrivos, Christos, Adele Ladkin, and Panayiotis Reklitis. "Hotel managers' career strategies for success." *International Journal of Contemporary Hospitality Management* (2007).