

HOTEL MANAGEMENT SYSTEM

Software Requirement specification

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Group - 2

CSE - F

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SRM University - AP

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Project Schedule:

Week	Activity Description	Planned Date of Completion	Actual Date
1.	Analyze the Case Study	18 th Mar 2021	19 th Mar 2021
2.	Create Data Flow diagrams and Use Case diagram	26 th Mar 2021	28 th Mar 2021
3.	Create State-Chart diagram and Activity diagram, designed user side web pages	31 st Mar 2021	31 st Mar 2021
4.	Create Class, Object and Package diagram, designed admin side web pages	5 th April 2021	4 th April 2021
5.	Create Sequence, Collaboration, Component, Deployment Diagram	10 th April 2021	11 th April 2021
6.	Designed remaining web-pages for users and admin along with their databases.	17 th April 2021	17 th April 2021
7.	Testing and SRS document completion	30 th April 2021	29 th April 2021

Introduction

The Software Requirements Specification (SRS) will provide a detailed description of the requirements for the Hotel Management System(HMS). This SRS will give a complete understanding of what is to be expected of the HMS to be constructed. The clear understanding of the HMS and its functionality will allow for the correct software to be developed for the end user and will be used for the development of the future stages of the project. From this SRS, the HMS can be designed, constructed, and finally tested.

Purpose:

In this Hotel Management System (HMS), the Software Requirement Specification (SRS) main objective is to provide a base for the foundation during this project. It offers a correct and detailed understanding of how to work and what to be expected by the end users. On the idea of detailed understanding of SRS it'll be helpful for the forthcoming developers by providing a blueprint to help in maintaining and modifying this project in line with the necessities.

Project Scope:

The Hotel Management System (HMS) project is a software where it is intended for operating the online reservations for room and other necessities of the hotel through online. Our Hotel Management System (HMS) has two levels such as Admin and User. By this HMS software it is easy to simplify the everyday process of the hotel. This system can handle the services for the customers real quick for their pleasant stay in the hotel. In order to overcome the drawbacks, this software has the solution to the large amount of file handling happening at the hotel. This software is easy and safe for using and most importantly the efficiency of the information retrieval are some benefits the development team are going to present with this system. Therefore, this system is easy to use and provides easy recovery of errors.

Overall Description

a) Product Perspective:

This Hotel Management System avoids the issues occurring because of the current manual system. The newly introduced system can give a simple access for reservation and it'll contain user friendly functions with engaging interfaces. The system can provide higher choices for the matter of handling massive scale of physical filing system, for the errors occurring in calculations. The ultimate outcome of this project can increase the potency of customers bookings.

b) Product features:

- This product allows customers to book rooms online by entering customers profile information and room details.
- The availability of the rooms are managed by the admin.
- Once the admin confirms the booking based on availability, customers can check the status of the bookings.
- Admin can also manage administrators for the system.

c) User classes and characteristics:

User Classes:

There are two levels in Hotel Management System:

1. Admin
2. User

Characteristics of User Classes:

1. Admin:

Admin plays a vital role in the Hotel Management System where the admin has all the access to the hotel system, where admin can go through the user's booking and confirm the reservation of the user based on whether the room is available or not. Admin can print the receipt of the customer stay and collect the payment from the customers after their stay. Payment details depend upon the price of the room booked. Admin can even add or delete the new or existing admin, also can change the username and password accordingly.

2. User:

As the user goes through this Hotel Management System, he/she can go through the details, services and view the gallery of the Hotel Management System. Based on their room requirements and prices, the user can book the room by filing the reservation details which contains personal and reservation information. After completion of the booking the user can view their booking status by entering their username.

d) Operating Environment:

Supports all known operating systems such as Windows, Linux. A monitor with minimum resolution of 1024 X 76, keyboard and mouse. A laser printer will be needed to print the receipts. Software is designed to run on any platform above Microsoft Windows 7 (32 bit). XAMPP server is required for database maintenance.

e) Design and Implementation Constraints:

Some design and implementation constraints are applied to maintain the reliability of the system. We can use new tools in this project while designing interfaces of the system. HMS is intended to be very simple and just for basic functionalities. The UI is very simple.

- **Memory:** System requires 2GB space.
- **Language Requirement:** Software must be only in English.
- **Implementation Constraint:** Application is based on HTML, CSS, PHP.
- **Reliability Requirements:** System should sync frequently to the backup server in order to avoid the data loss during failure, so it can be recovered.

System Features

Admin Login: Admin should first login to perform any operation. This feature has high priority. All the list of administrators can login to the admin page using their username and password.

Req-1: The username and password should be valid. If it is invalid then the same page will be displayed.

Manage Rooms: Admin can add or delete rooms. This feature has high priority.

Req-1: The rooms should be added based on room type and bedding type.

Req-2: The rooms are deleted based on the room id.

Manage Administrators: Admin can even add or delete the new or existing admin, also can change the username and password accordingly. This feature has low priority.

Req-1: The username and password are required to manage the administrator.

Status of room bookings: View the room bookings and confirm the booking according to the availability. This feature has high priority.

Req-1: Availability of vacant rooms.

View Payment: Admin can print the receipt of the customer stay. This feature has low priority.

Req-1: Room booking should be successful.

Req-2: All the payments should be calculated perfectly based on their stay.

User Interface

Home Page: The user can go through the details, services and view the gallery of the hotel .This feature has high priority

Reservation: The user can book the room based on their room requirements and prices, by filing the reservation details which contains personal and reservation information. This feature has high priority.

Req-1: Unique Username.

Req-2: No.of days of stay should be given accurately.

Req-3: All the other personal details should be given correctly.

Req-4: Human code verification.

Bookings: In this section the user can view their booking status by entering their username. This feature has high priority.

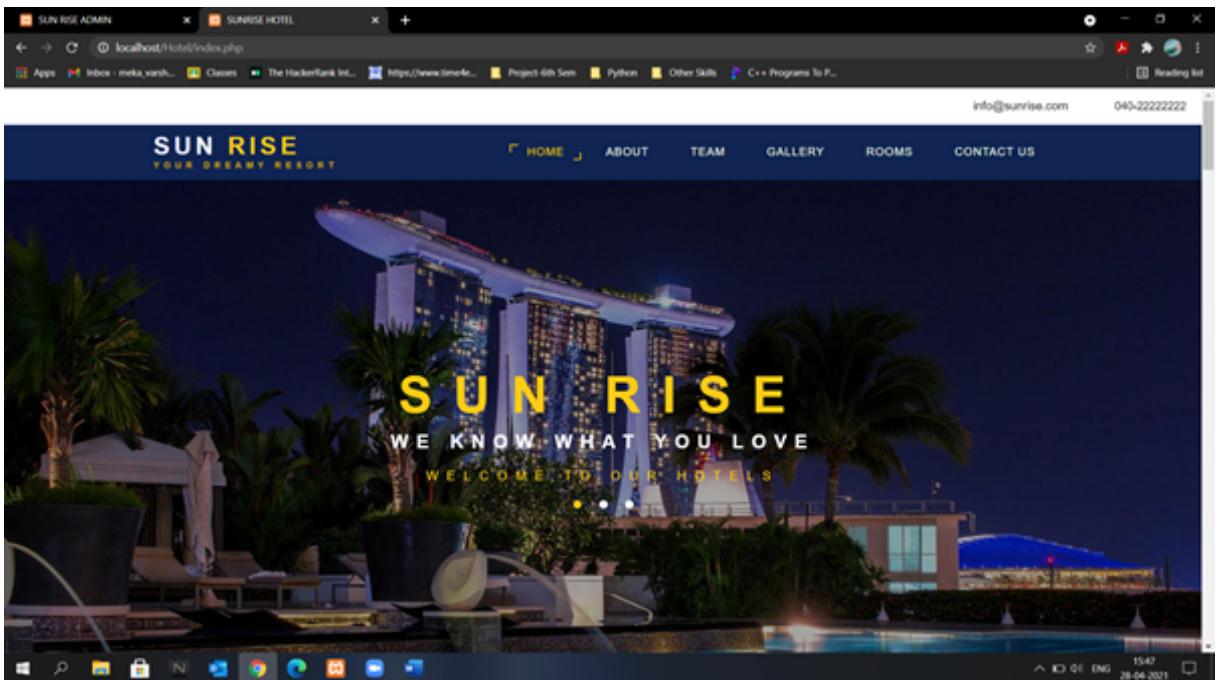
Req-1: Username.

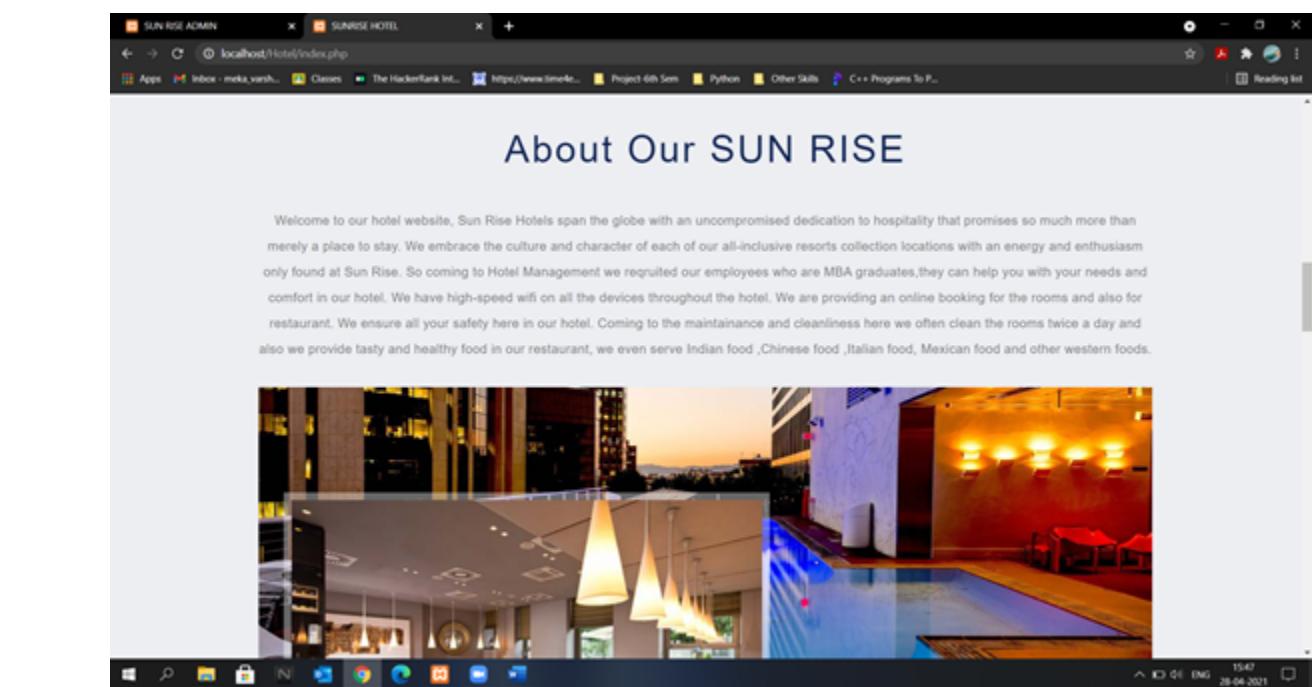
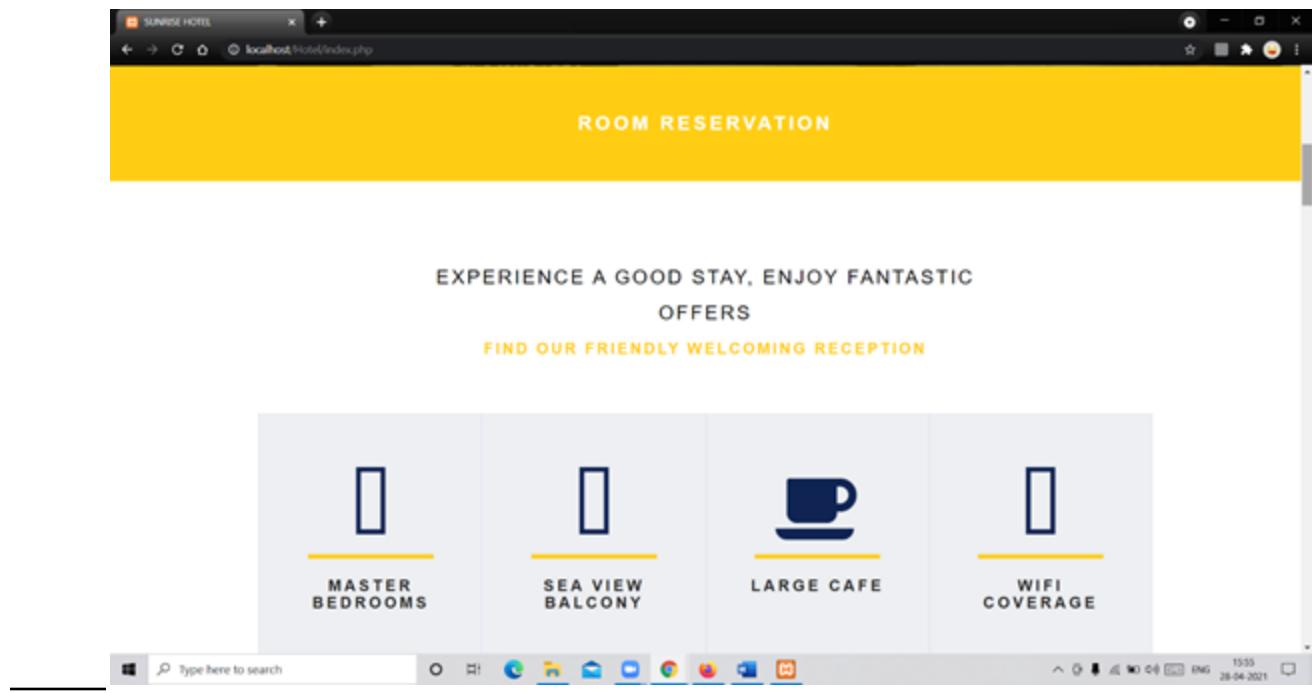
External Interface Requirements

a) User Interfaces:

HMS is intended to be very simple and just for basic functionalities. The UI is very simple.

User:





SUN RISE ADMIN SUNRISE HOTEL

localhost:Hotel/index.php

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Our Services

Enjoy Your Stay

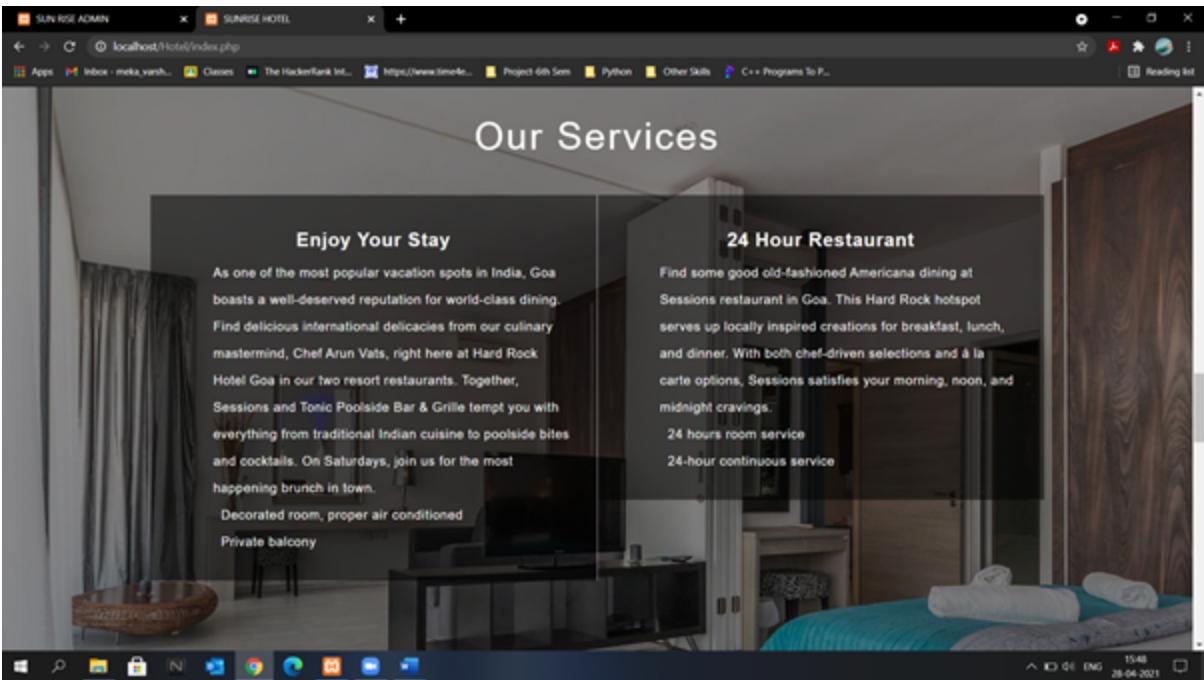
As one of the most popular vacation spots in India, Goa boasts a well-deserved reputation for world-class dining. Find delicious international delicacies from our culinary mastermind, Chef Arun Vats, right here at Hard Rock Hotel Goa in our two resort restaurants. Together, Sessions and Tonic Poolside Bar & Grille tempt you with everything from traditional Indian cuisine to poolside bites and cocktails. On Saturdays, join us for the most happening brunch in town.

Decorated room, proper air conditioned
Private balcony

24 Hour Restaurant

Find some good old-fashioned Americana dining at Sessions restaurant in Goa. This Hard Rock hotspot serves up locally inspired creations for breakfast, lunch, and dinner. With both chef-driven selections and à la carte options, Sessions satisfies your morning, noon, and midnight cravings.

24 hours room service
24-hour continuous service

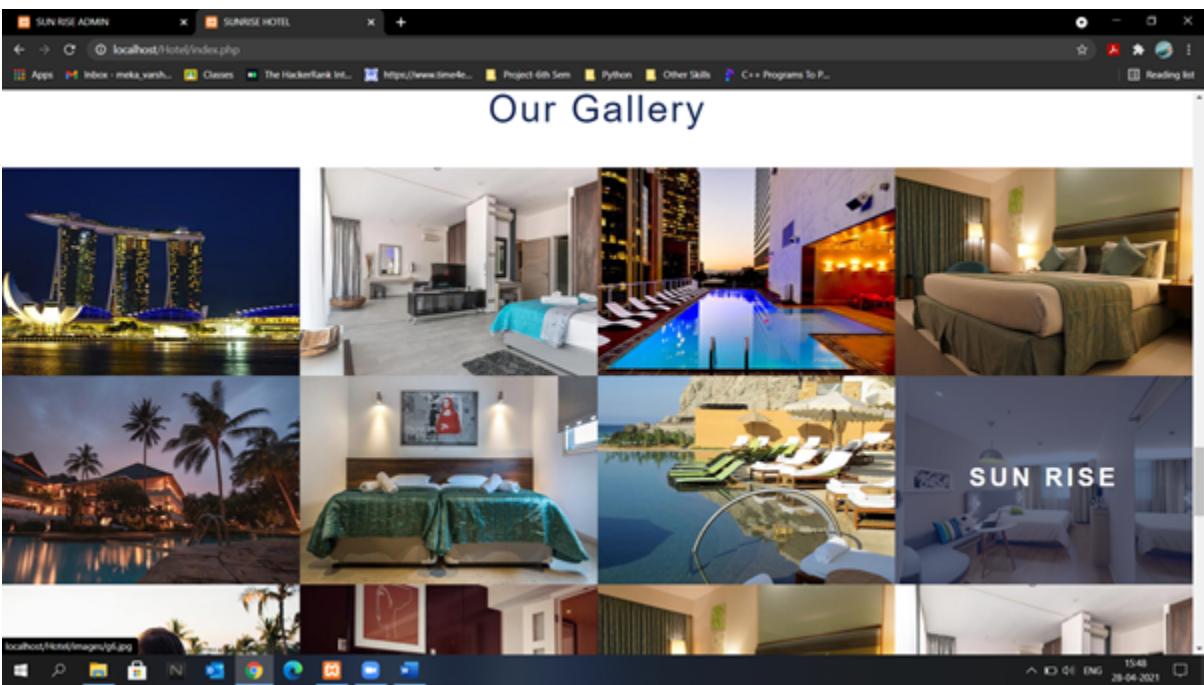


SUN RISE ADMIN SUNRISE HOTEL

localhost:Hotel/index.php

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Our Gallery



SUN RISE ADMIN SUNRISE HOTEL

localhost/Hotel/index.php

Rooms And Rates

Room Type	Price
Deluxe Room	Rs. 4000
Superior Room	Rs. 6000
Guest House	Rs. 3000
Single Room	Rs. 2000

Book Now

Book Now

Book Now

Book Now



SUN RISE ADMIN RESERVATION SUNRISE HOTEL

localhost/Hotel/admin/reservation.php

Homepage Bookings

RESERVATION

PERSONAL INFORMATION

Title*
Miss.

First Name
Mogili

Last Name
Nikitha

Email
nikitha@gmail.com

Phone Number
6303102611

User Name
Nikitha

RESERVATION INFORMATION

Type Of Room*
SINGLE ROOM

Bedding Type
Single

No.of Rooms*
1

Meal Plan
Half Board

Check-In
29-04-2021

Check-Out
01-05-2021

User Name
Nikitha

Check-Out
01-05-2021

HUMAN VERIFICATION

Type Below this code 71851284

Enter the random code

All Bookings Status													
<input type="text" value="Enter-Id"/> <input type="button" value="My Bookings"/>													
Sno	Title	First Name	Last Name	Email	Phone	Type of Room	Bed	No of Rooms	Meal	Check In	Check Out	Status	Number of days
1	Miss.	Pranathi	Dhara	Pranathi@gmail.com	9874570918	Superior Room	Single	1	Breakfast	2021-03-28	2021-03-29	Confirm	1

Admin:

A screenshot of a web browser window titled "SUN RISE ADMIN". The address bar shows "localhost/admin/index.php". The page has a light blue header with a white cloud graphic. Below the header is a dark grey navigation bar with "Admin" and "Logout" buttons. A pink button labeled "LOGIN" is centered below the navigation bar. At the bottom, the text "SUN RISE HOMEPAGE" is displayed in white. The browser's toolbar and taskbar are visible at the top and bottom respectively.

Administrator **Bookings** **localhost / 127.0.0.1 / hotel / room /**

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ADMIN

Status Room Booking Payment

Status Room Booking

New Room Bookings

#	Name	Email	Room	Bedding	Meal	Check In	Check Out	Status	Action
1	Meka Varsha	meka_varsha@srmep.edu.in	Superior Room	Single	Breakfast	2021-03-26	2021-03-30	Not Confirm	Action
4	Meka Varsha	varshachutki99@gmail.com	Deluxe Room	Triple	Half Board	2021-03-28	2021-03-30	Not Confirm	Action
5	Leela Krishna	leela@gmail.com	Superior Room	Triple	Breakfast	2021-03-27	2021-03-30	Not Confirm	Action
6	Meka Varsha	meka_varsha@srmep.edu.in	Deluxe Room	Triple	Half Board	2021-03-28	2021-03-30	Not Confirm	Action

Booked Rooms

1557 28-04-2021

Administrator **Bookings** **localhost / 127.0.0.1 / hotel / room /**

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Room Booking 2021/04/28

Room Booking

Booking Confirmation

DESCRIPTION	INFORMATION
Name	Miss.MekaVarsha
Email	meka_varsha@srmep.edu.in
Phone No	6303102611
Type Of the Room	Superior Room
No Of the Room	1
Meal Plan	Breakfast
Bedding	Single
Check-in Date	2021-03-26
Check-out Date	2021-03-30
No of days	4
Status Level	Not Confirm

Select the Confirmation

Available Room Details

Superior Room	2
Guest House	3
Single Room	4
Deluxe Room	3
Total Rooms	10

1558 28-04-2021

SUNRISE HOTEL Bookings localhost / 127.0.0.1 / hotel / Admin

ADMIN

Status Room Booking Payment

Payment Details

records per page Search:

Name	Room type	Bed Type	Check in	Check out	No of Room	Meal Type	Room Rent	Bed Rent	Meals	Gr.Total	Print
Miss. Pranathi Dhara	Superior Room	Single	2021-03-28	2021-03-29	1	Breakfast	320.00	6.40	3.20	329.60	
Miss. Var Sha	Superior Room	Double	2021-04-01	2021-04-03	1	Room only	640.00	0.00	12.80	652.80	
Miss. Will Sha	Deluxe Room	Single	2021-03-28	2021-03-30	1	Half Board	440.00	13.20	4.40	457.60	
Mr. Mister Rohith	Guest House	Single	2021-03-27	2021-03-30	1	Full Board	540.00	21.60	5.40	567.00	

Showing 1 to 4 of 4 entries Previous 1 Next

15:58 28-04-2021

Invoice Bookings localhost / 127.0.0.1 / hotel / Admin

INVOICE

SUN RISE HOTEL,
New Kalmunai Road,
Batticaloa,
Sri Lanka.
(+94) 65 222 44 55

SUN RISE

Mr.Mister Rohith

Invoice #	7
Date	2021-03-30

Item	No of Days	Rate	Quantity	Price
Guest House	3	\$180	1	\$540.00
Single Bed	3	\$1.8	1	\$5.40
Full Board	3	\$7.2	1	\$21.60

Total	\$567.00
Amount Paid	\$0.00
Balance Due	\$567.00

CONTACT US

Email :> info@sunrise.com || Web :> www.sunrise.com || Phone :> +94 65 222 44 55

15:58 28-04-2021

SUNRISE HOTEL Bookings localhost / 127.0.0.1 / hotel / 1558 28-06-2021

MAIN MENU

User Dashboard

ADMINISTRATOR accounts

User ID	User name	Password	Update	Remove
1	Admin	1234	<button>Update</button>	<button> Delete</button>
2	Varsha	Chutki@123	<button>Update</button>	<button> Delete</button>

[Add New Admin](#)

SUNRISE HOTEL Bookings localhost / 127.0.0.1 / hotel / 1558 28-06-2021

MAIN MENU

User Dashboard

ADMINISTRATOR accounts

Change the User name and Password

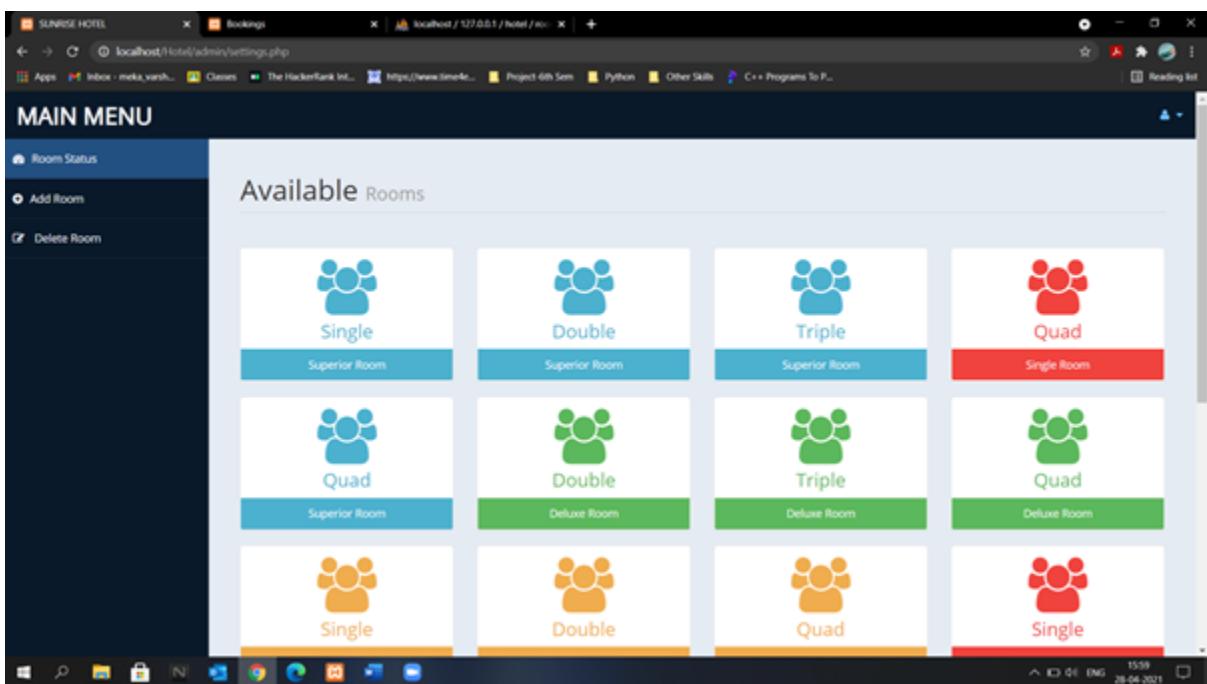
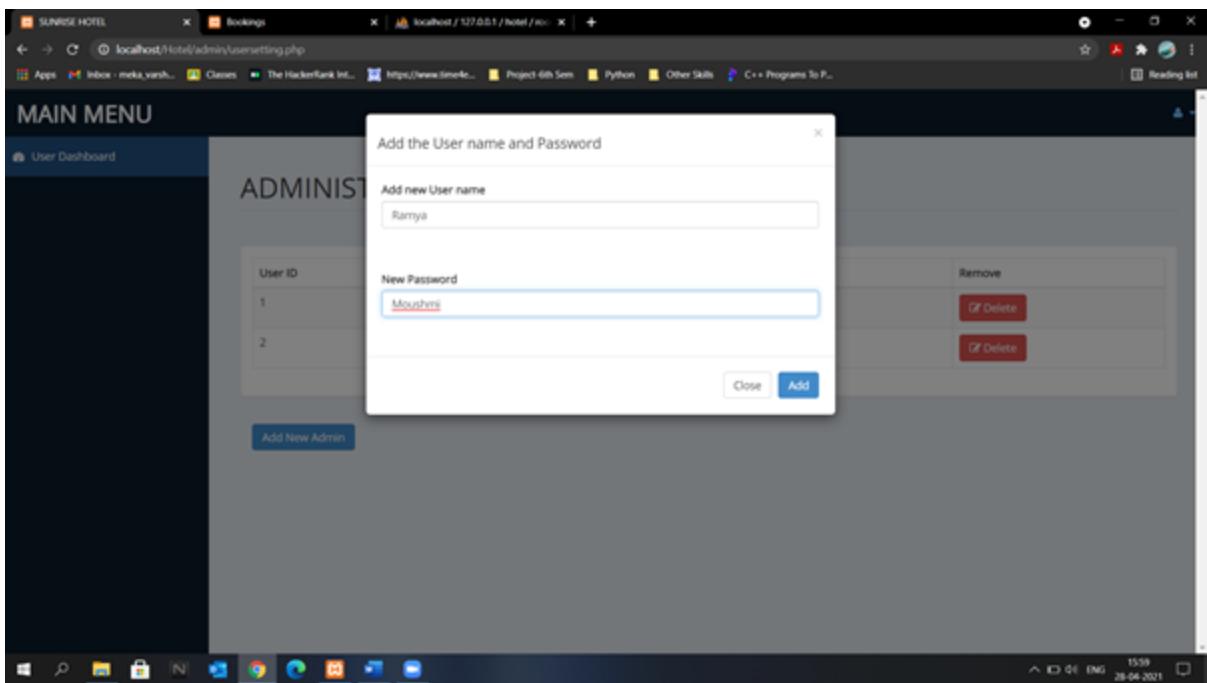
Change User name

Change Password

Close Update

User ID	Remove
1	<button>>Delete</button>
2	<button>>Delete</button>

[Add New Admin](#)



SUNRISE HOTEL Bookings localhost / 127.0.0.1 / hotel / room.php

MAIN MENU

- Rooms Status
- Add Room
- Delete Room

NEW ROOM

ADD NEW ROOM

Type Of Room *
DELUXE ROOM

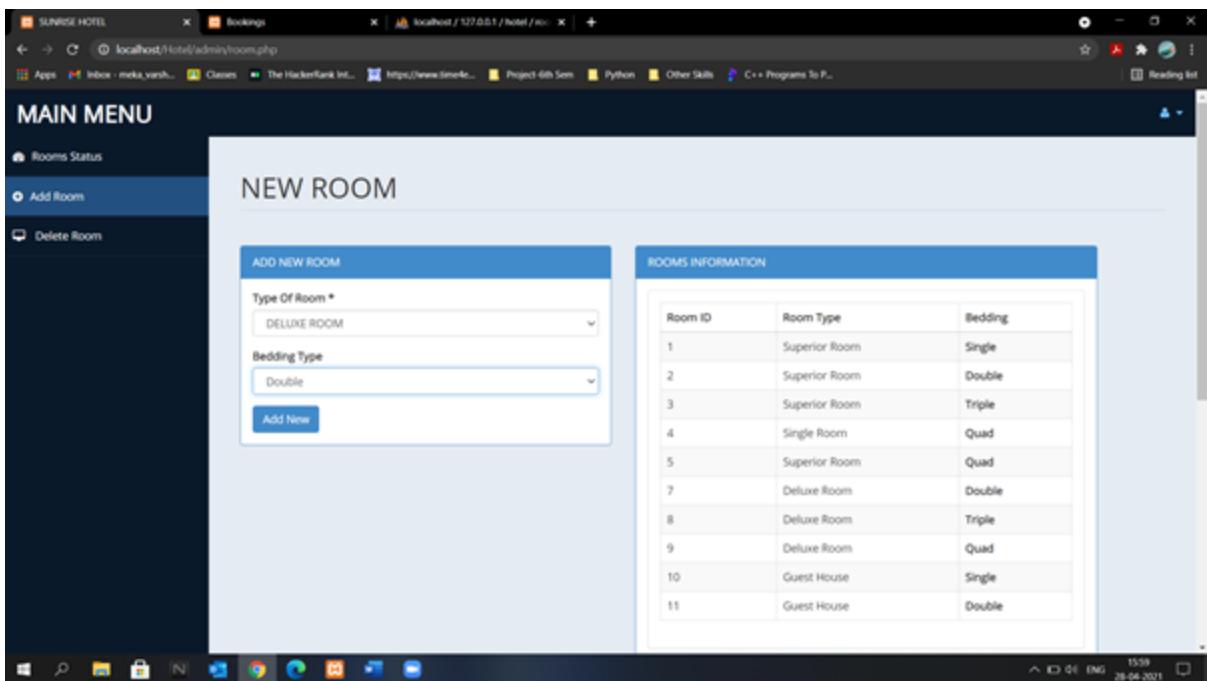
Bedding Type
Double

Add New

ROOMS INFORMATION

Room ID	Room Type	Bedding
1	Superior Room	Single
2	Superior Room	Double
3	Superior Room	Triple
4	Single Room	Quad
5	Superior Room	Quad
7	Deluxe Room	Double
8	Deluxe Room	Triple
9	Deluxe Room	Quad
10	Guest House	Single
11	Guest House	Double

15:59 28-04-2021



SUNRISE HOTEL Bookings localhost / 127.0.0.1 / hotel / roomdel.php

MAIN MENU

- Room Status
- Add Room
- Delete Room

DELETE ROOM

Delete room

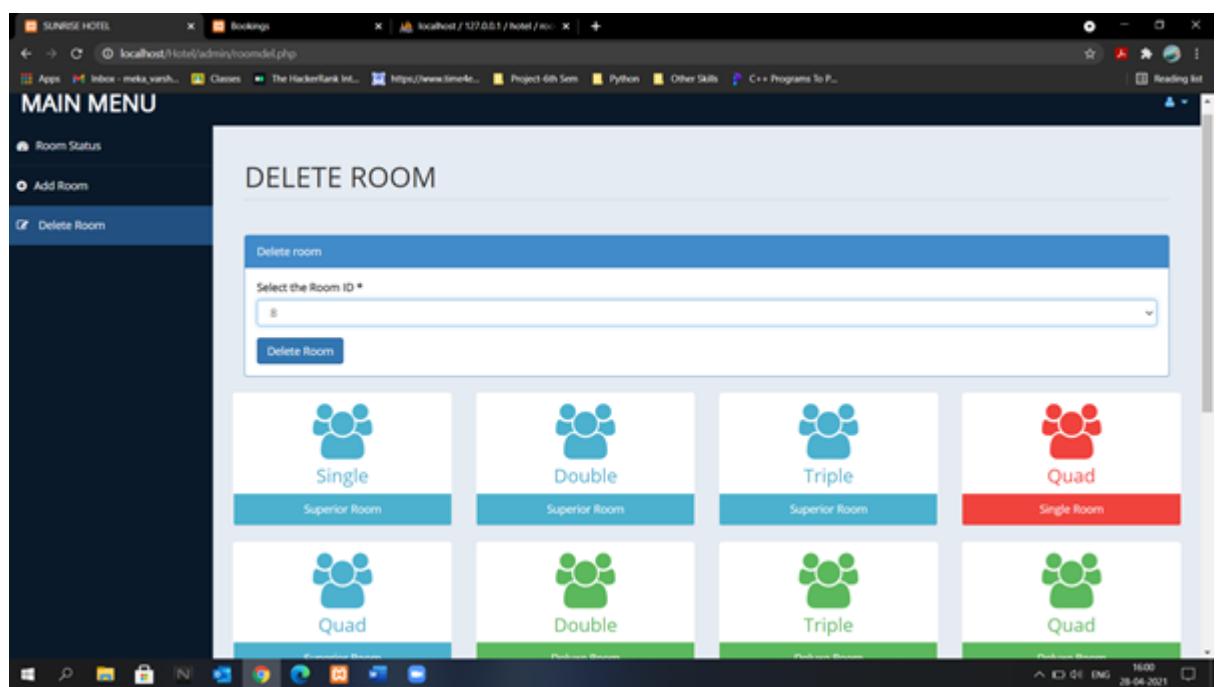
Select the Room ID *

8

Delete Room

 Single Superior Room	 Double Superior Room	 Triple Superior Room	 Quad Single Room
 Quad	 Double	 Triple	 Quad

16:00 28-04-2021



b) Software Interfaces:

Web Server

OS (Windows)

Database Server

XAMPP, My SQL

Development End

HTML, CSS, PHP.

The screenshot shows the phpMyAdmin interface running on a Windows operating system. The browser window title is "localhost / 127.0.0.1 / hotel | phpMyAdmin". The main content area displays the 'Structure' tab for the 'hotel' database. On the left, a sidebar lists various databases. The 'hotel' database is expanded, showing its tables: login, payment, room, and roombook. The 'Structure' tab is active, showing the following table details:

Table	Action	Rows	Type	Collation	Size	Overhead
login	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16.8 KIB	-
payment	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16.8 KIB	-
room	Browse Structure Search Insert Empty Drop	14	InnoDB	latin1_swedish_ci	16.8 KIB	-
roombook	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16.8 KIB	-
Sum		27	InnoDB	utf8mb4_general_ci	44.8 KIB	0 B

At the bottom, there is a 'Create table' form with fields for 'Name:' and 'Number of columns: 4'. The status bar at the bottom right shows the date and time: "16:01 28-04-2021".

localhost / 127.0.0.1 / hotel / log

localhost/phpmyadmin/sql.php?server=1&db=hotel&table=logins&pos=0

phpMyAdmin

Recent Favorites

New bank_details hotel New login payment room roombok information_schema mysql performance_schema phpmyadmin quizzes test webpage

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 2 (3 total). Query took 0.0003 seconds.

SELECT * FROM `logins`

Profiling Edit inline Edit Explain SQL Create PHP code Refresh

Show all Number of rows: 25 Filter rows Search this table Sort by key None

+ Options Edit Copy Delete 1 Admin 1234
Edit Copy Delete 2 Vansha Chutko@123
Edit Copy Delete 4 Ramya Moushmi

Check all With selected Edit Copy Delete Export

Show all Number of rows: 25 Filter rows Search this table Sort by key None

Query results operations Print Copy to clipboard Export Display chart Create view

Console

16:01 28-04-2021

	id	username	pass
	1	Admin	1234
	2	Vansha	Chutko@123
	4	Ramya	Moushmi

localhost / 127.0.0.1 / hotel / pay

localhost/phpmyadmin/sql.php?server=1&db=hotel&table=payment&pos=0

phpMyAdmin

Recent Favorites

New bank_details hotel New login payment room roombok information_schema mysql performance_schema phpmyadmin quizzes test webpage

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total). Query took 0.0004 seconds.

SELECT * FROM `payment`

Profiling Edit inline Edit Explain SQL Create PHP code Refresh

Show all Number of rows: 25 Filter rows Search this table

+ Options

	id	title	name	iname	room	tbed	nroom	cin	cout	btot	flntot	mepr	meal	btot	noofdays
	2	Miss.	Varsha	Superior Room	Doubt	1	2021-04-01	2021-04-03	640.00	652.80	0.00	Room only	12.80	2	
	3	Miss.	Will	Shri	Deluxe Room	Single	1	2021-03-26	2021-03-30	440.00	457.60	13.20	Half Board	4.40	2
	7	Mrs.	Mister	Rohith	Guest House	Single	1	2021-03-27	2021-03-30	540.00	567.00	21.60	Full Board	5.40	3
	8	Miss.	Pranathi	Dhara	Superior Room	Single	1	2021-03-28	2021-03-29	320.00	329.60	6.40	Breakfast	3.20	1

Query results operations Print Copy to clipboard Export Display chart Create view

Console

16:01 28-04-2021

localhost / 127.0.0.1 / hotel / room

localhost/phpmyadmin/sql.php?server=1&db=hotel&table=room&pos=0

phpMyAdmin

Recent Favorites

bank_details

hotel

New

login

payment

room

roombook

information_schema

mysql

performance_schema

phpmyadmin

quizapp

test

webpage

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 13 (14 total, Query took 0.0004 seconds.)

SELECT * FROM `room`

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

	Id	Type	bedding	place	cusid
<input type="checkbox"/>	1	Superior Room	Single	NotFree	8
<input type="checkbox"/>	2	Superior Room	Double	Free	0
<input type="checkbox"/>	3	Superior Room	Triple	Free	NULL
<input type="checkbox"/>	4	Single Room	Quad	Free	NULL
<input type="checkbox"/>	5	Superior Room	Quad	Free	NULL
<input type="checkbox"/>	7	Deluxe Room	Double	Free	NULL
<input type="checkbox"/>	8	Deluxe Room	Triple	Free	NULL
<input type="checkbox"/>	9	Deluxe Room	Quad	Free	NULL
<input type="checkbox"/>	10	Guest House	Single	Free	0
<input type="checkbox"/>	11	Guest House	Double	Free	NULL
<input type="checkbox"/>	12	Guest House	Quad	Free	NULL
<input type="checkbox"/>	13	Single Room	Single	Free	NULL
<input type="checkbox"/>	14	Single Room	Double	Free	NULL
<input type="checkbox"/>	15	Single Room	Triple	Free	NULL

Check all With selected Edit Copy Delete Export

Console

16:01 28-04-2021

localhost / 127.0.0.1 / hotel / roombook

localhost/phpmyadmin/sql.php?server=1&db=hotel&table=roombook&pos=0

phpMyAdmin

Recent Favorites

bank_details

hotel

New

login

payment

room

roombook

information_schema

mysql

performance_schema

phpmyadmin

quizapp

test

webpage

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 5 (6 total, Query took 0.0005 seconds.)

SELECT * FROM `roombook`

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

	Id	Title	FName	LName	Email	Phone	Uid	TRoom	Bed	NRoom	Meal	cin	cout	stat	nodays
<input type="checkbox"/>	1	Miss	Meka	Vansha	meka_vansha@smap.edu.in	6303102611		Superior Room	Single	1	Breakfast	2021-03-26	2021-03-30	Not Confirmed	4
<input type="checkbox"/>	3	Miss	Will	Shia	admin@gmail.com	6303102613		Deluxe Room	Single	1	Half Board	2021-03-26	2021-03-30	Confirmed	2
<input type="checkbox"/>	4	Miss	Meka	Vansha	vanshachutki99@gmail.com	6303102614		Deluxe Room	Triple	1	Half Board	2021-03-26	2021-03-30	Not Confirmed	2
<input type="checkbox"/>	5	Miss	Leela	Krishna	leela@gmail.com	9900492772	Var	Superior Room	Triple	1	Breakfast	2021-03-27	2021-03-30	Not Confirmed	3
<input type="checkbox"/>	6	Miss	Meka	Vansha	meka_vansha@smap.edu.in	6303102611	Var	Deluxe Room	Triple	1	Half Board	2021-03-28	2021-03-30	Not Confirmed	2
<input type="checkbox"/>	8	Miss	Pranathi	Enara	Pranathi@gmail.com	9874570918	dhp	Superior Room	Single	1	Breakfast	2021-03-28	2021-03-29	Confirmed	1

Check all With selected Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

16:01 28-04-2021

c) Hardware Interfaces:

The user interface for the system shall be compatible with any type of web browser such as Mozilla Firefox, Google Chrome, and Internet Explorer. This system requires 2GB space. System should sync frequently to the backup server in order to avoid data loss during failure, so it can be recovered.

d) Communication Interfaces:

The System shall be using HTTP/HTTPS for communication over Internet and for intranet communications, it shall use TCP/IP protocol. To achieve functionality it requires having a stable internet connection. Mostly a broadband connection with the client's computer will provide the efficient service.

Non-Functional Requirements

a) Performance Requirements:

Performance requirements define acceptable response times for system functionality. Data in the database should be updated within 2 seconds. Query results must return results within 5 seconds. Load time of UI Should not take more than 2 seconds.

b) Safety Requirements:

Database should be backed up every hour. Under failure, system should be able to come back at normal operation under an hour

c) Security Requirements:

The system has an username and password for Admin. All external communications between the data's server and client must be stored in the database. All data must be protected or protectively marked.

d) Software quality Attributes:

Correctness: This system should satisfy the normal regular Hotel Management operations precisely to fulfill the end user objectives

Efficiency: Enough resources to be implemented to achieve the particular task efficiently without any hassle.

Flexibility: System should be flexible enough to provide space to add new features and to handle them conveniently

Integrity: System should focus on securing the customer information and avoid data losses as much as possible

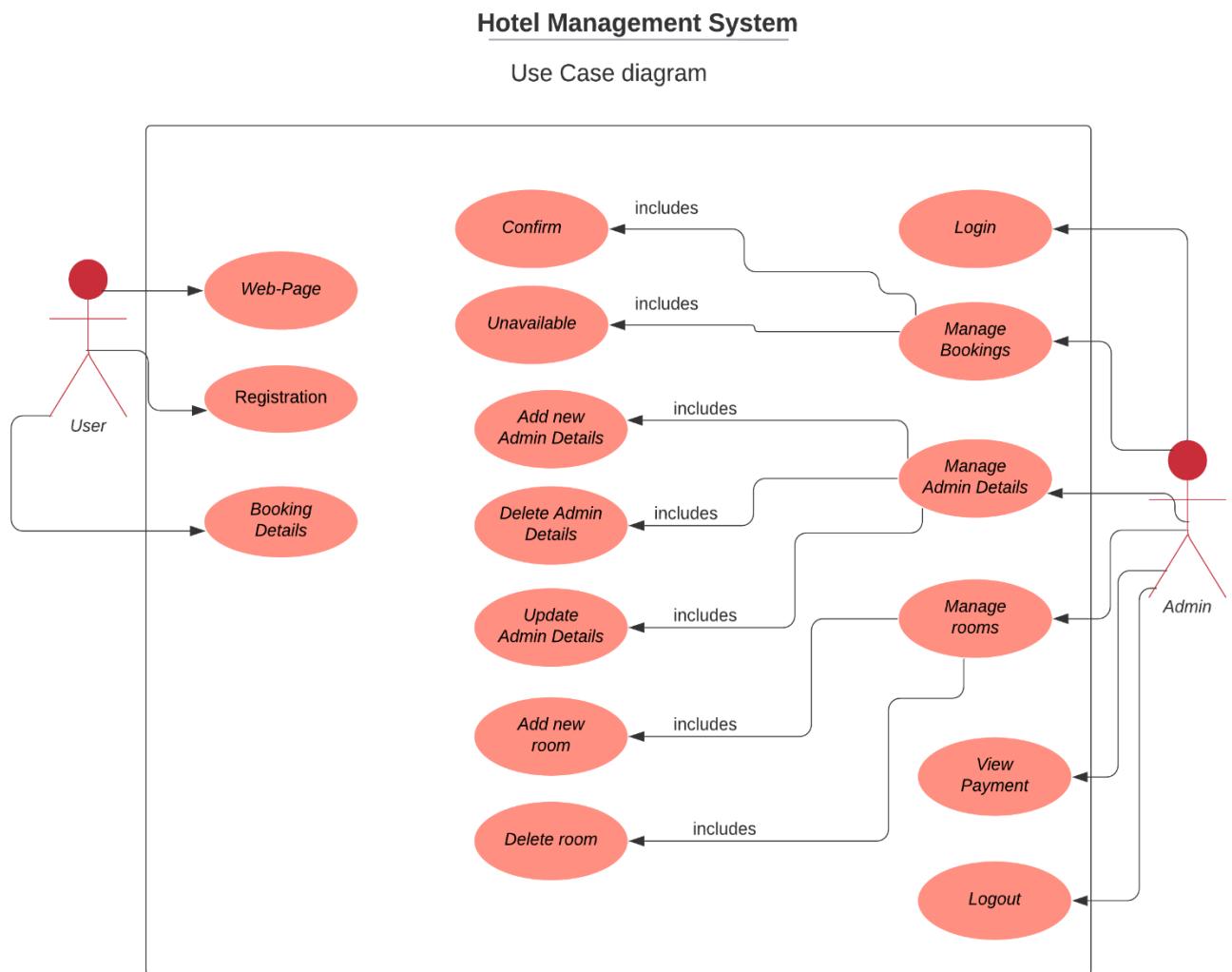
Portability: The system should run in any Microsoft windows environment.

Usability: The system should provide a user manual to every level of users.

Testability: The system should be able to be tested to confirm the performance and clients specifications.

Maintainability: The system should be maintainable.

Use-Case Diagram



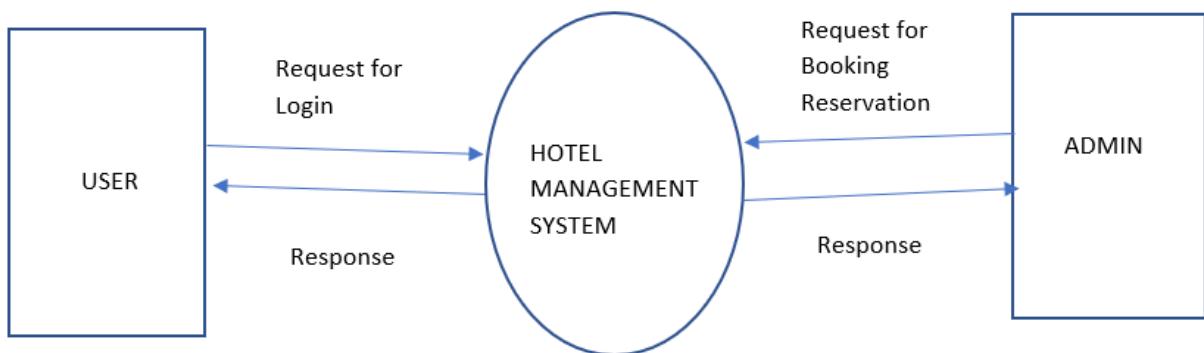
Data Flow Diagram:

Physical DFD:

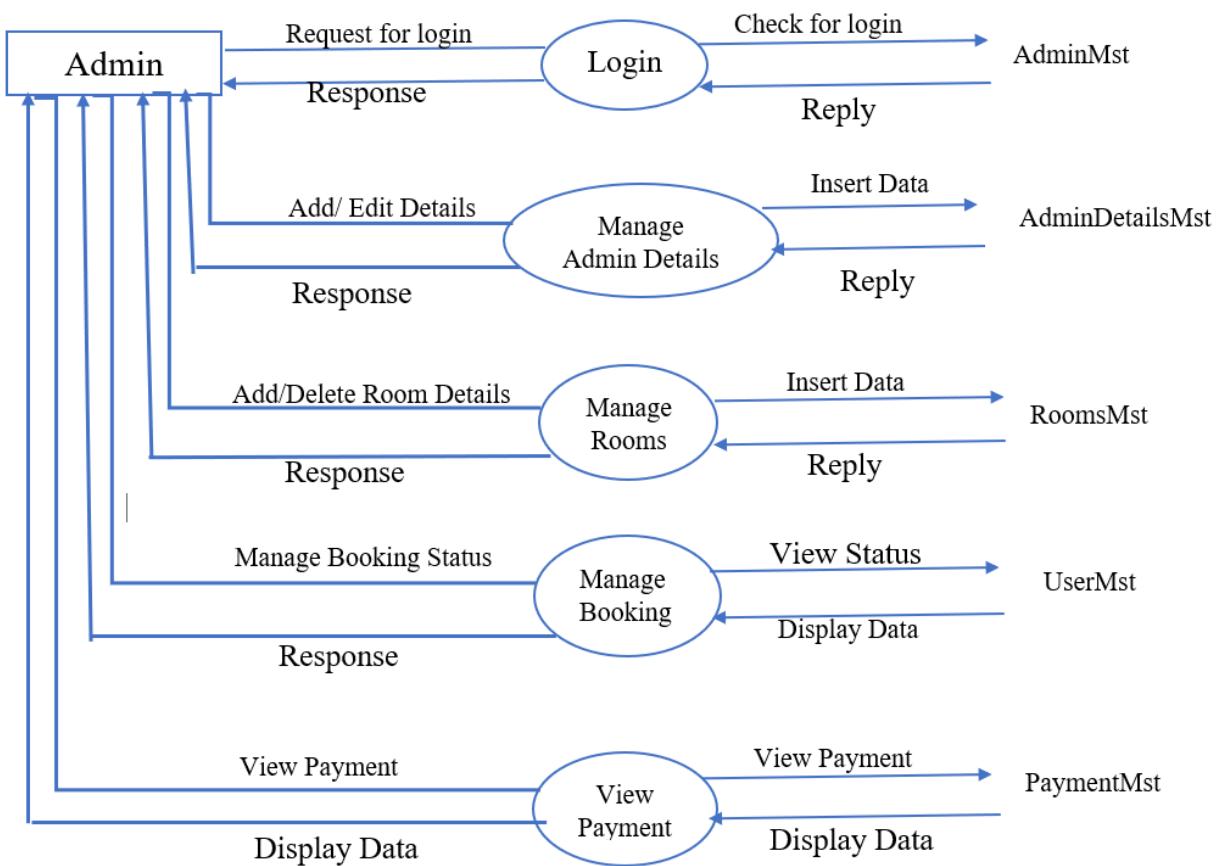
The user goes through this Hotel Management System, he/she can go through the details, services and view the gallery of the Hotel Management System. Based on their room requirements and prices, the user can book the room by filing the reservation details which contains personal and reservation information. After completion of the booking the user can view their booking status by entering their username. Admin can go through the user's booking and confirm the reservation of the user based on whether the room is available or not. Admin can print the receipt of the customer stay and collect the payment from the customers after their stay. Payment details depend upon the price of the room booked. Admin can even add or delete the new or existing admin, also can change the username and password accordingly. Monitor, Printer, Mouse, Keyboard are the equipment required.

Logical DFD

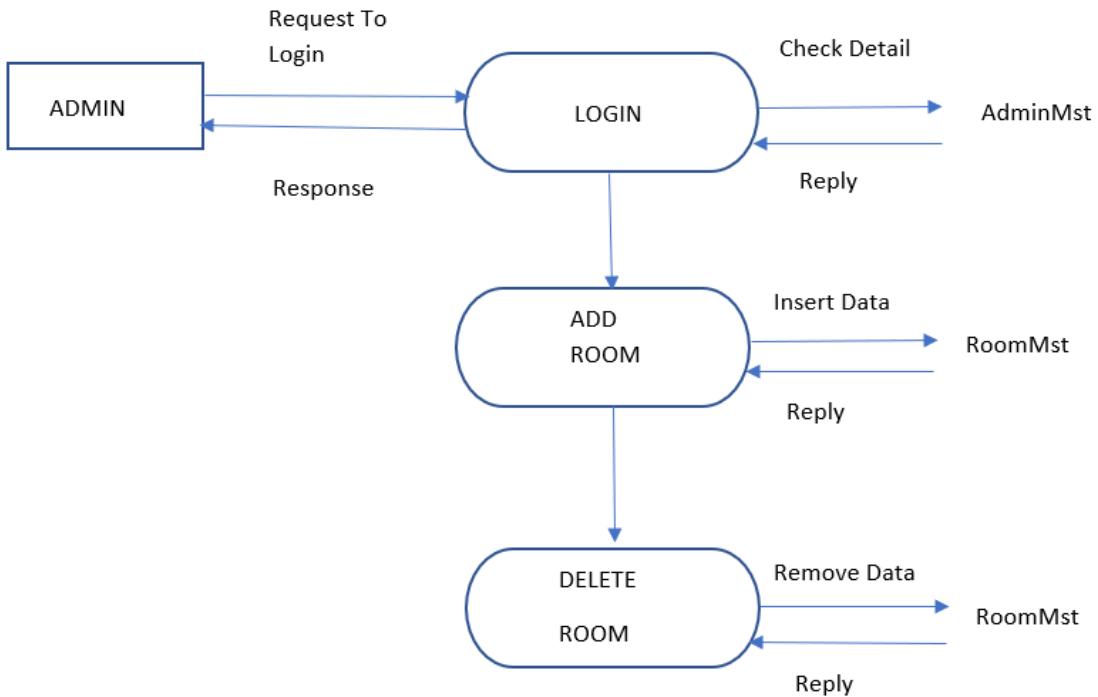
Context DFD:



Level-0 DFD:



Level 1 DFD:



Data Dictionary

Table Name: login

Description: To store the admin login details

Sr No.	Fields (Name)	Data Type	Size	Constraint	Description
1	id	int	10	Primary key	Admin Id
2	usname	varchar	30	Not Null	Admin Username
3	pass	varchar	30	Not Null	Admin Password

Table Name: room**Description:** To store the room and bedding details of hotel

Sr No.	Fields (Name)	Data Type	Size	Constraint	Description
1	id	int	10	Primary key	Room Id of Hotel
2	type	varchar	15	Not Null	Type of room
3	bedding	varchar	10	Not Null	Type of Bed
4	place	varchar	10	Not Null	Availability of room
5	cusid	int	11	Not Null	Booking Id

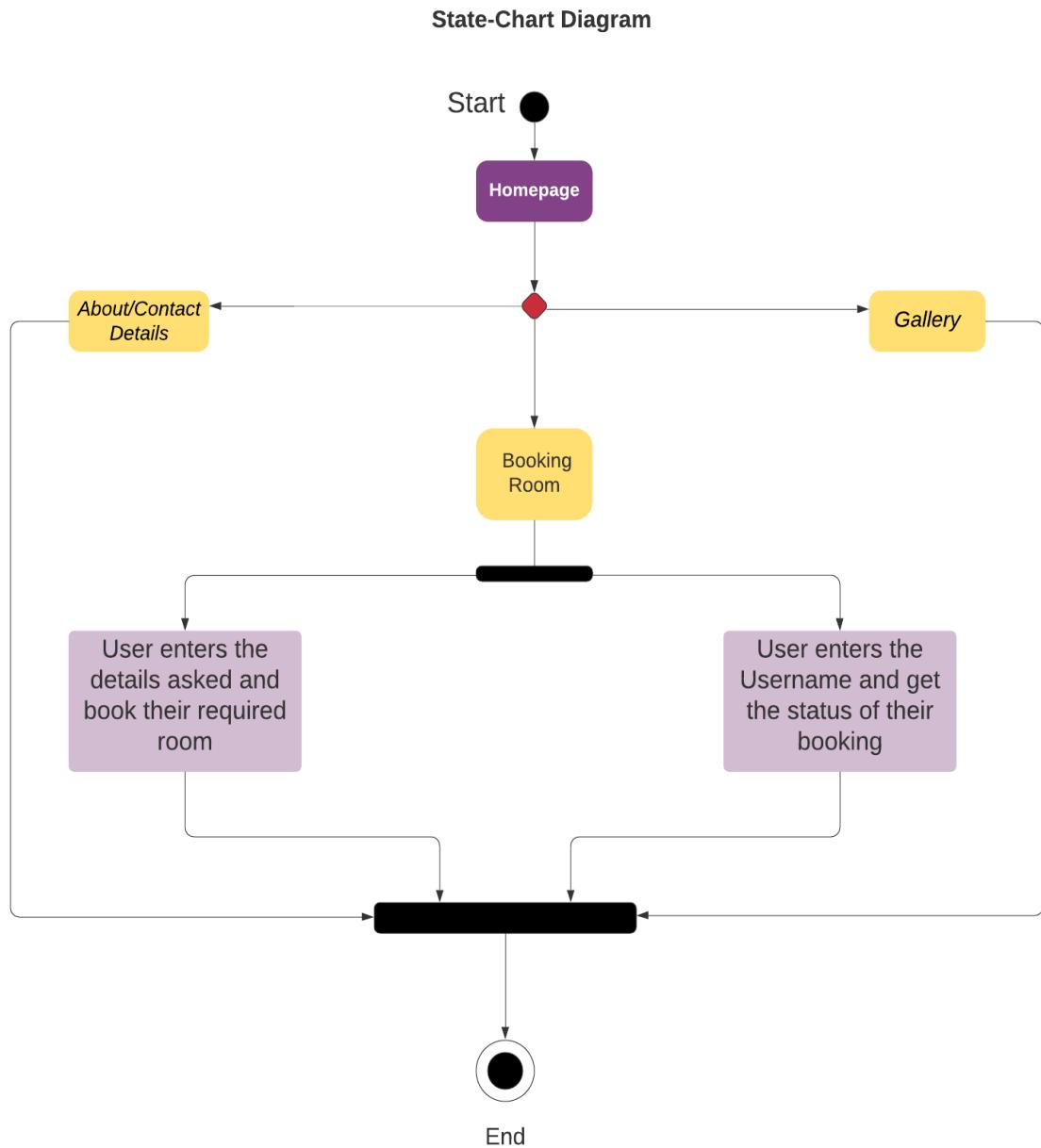
Table Name: roombook**Description:** To store the booking details of guests

Sr No.	Fields (Name)	Data Type	Size	Constraint	Description
1	id	int	11	Primary key	Booking Id
2	Title	varchar	5	Not Null	Title of user
3	FName	text		Not Null	First Name of user
4	LName	text		Not Null	Surname of user
5	Email	varchar	50	Not Null	Email Id of user
6	Phone	bigint	20	Not Null	Contact number of user
7	Uid	varchar	20	Not Null	Username of user
8	TRoom	varchar	20	Not Null	Type of Room
9	Bed	varchar	10	Not Null	Type of Bed
10	NRoom	varchar	2	Not Null	No of rooms booked by the user
11	Meal	varchar	15	Not Null	Meal Type
12	cin	date		Not Null	Check in date of user
13	cout	date		Not Null	Check out date of user
14	stat	varchar	15	Not Null	Status of the Booking
15	noofdays	int	11	Not Null	No of days of stay of user

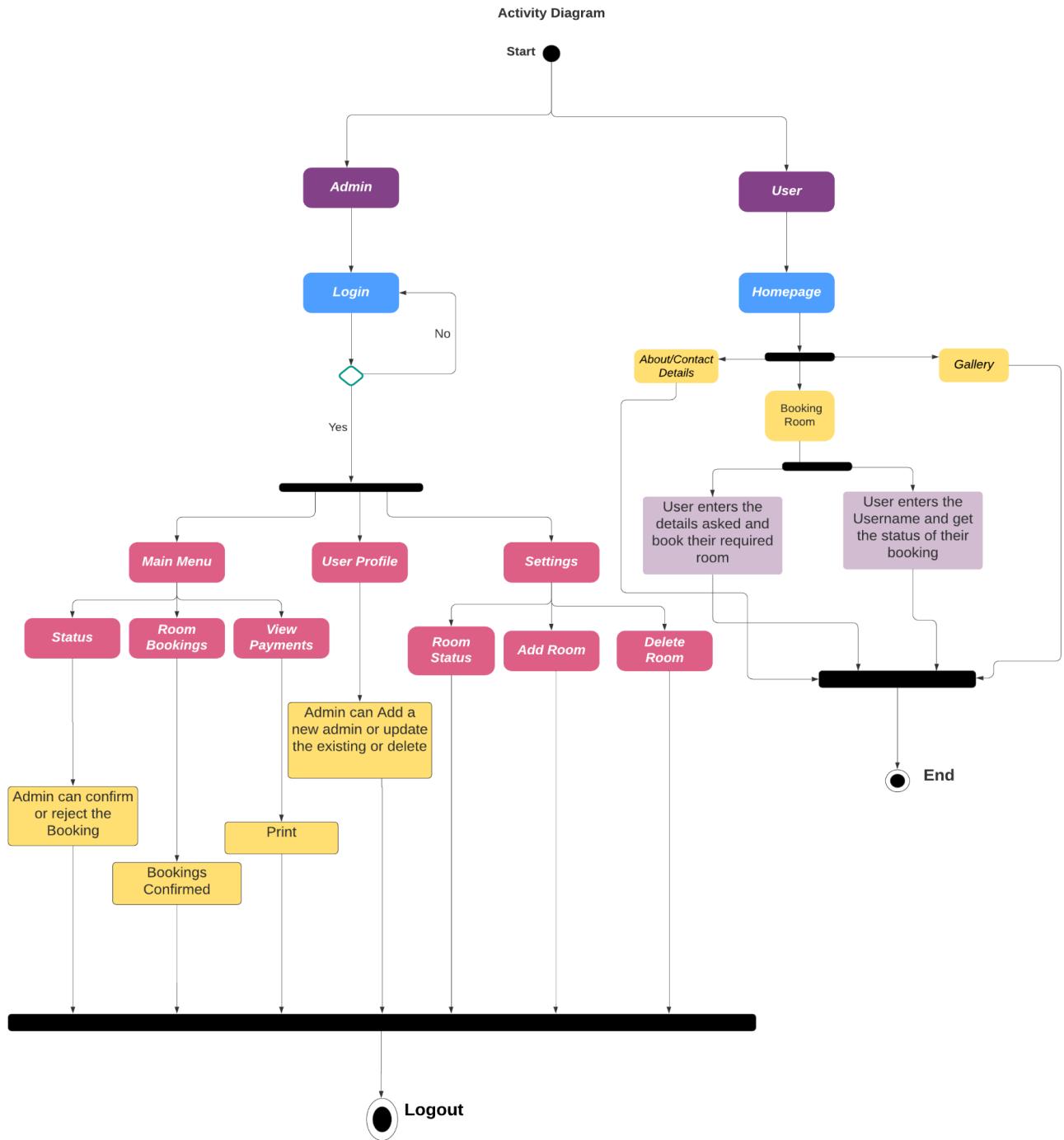
Table Name: payment**Description:** To store the complete details of the user's stay

Sr No.	Fields (Name)	Data Type	Size	Constraint	Description
1	id	int	11	Primary key	Booking Id of Hotel
2	title	varchar	5	Not Null	Title of user
3	fname	varchar	30	Not Null	First Name of user
4	lname	varchar	30	Not Null	Surname of user
5	troom	varchar	30	Not Null	Type of Room
6	tbed	varchar	30	Not Null	Type of Bed
7	nroom	int	11	Not Null	No of rooms booked by the user
8	cin	date		Not Null	Check in date of user
9	cout	date		Not Null	Check out date of user
10	ttot	double	(8,2)	Not Null	Room Cost
11	btot	double	(8,2)	Not Null	Bed Cost per head
12	mepr	double	(8,2)	Not Null	Meal Price per plate
13	meal	varchar	30	Not Null	Meal Type
14	fintot	double	(8,2)	Not Null	Grand Total
15	noofdays	int	11	Not Null	No of days of stay of user

State-Chart Diagram

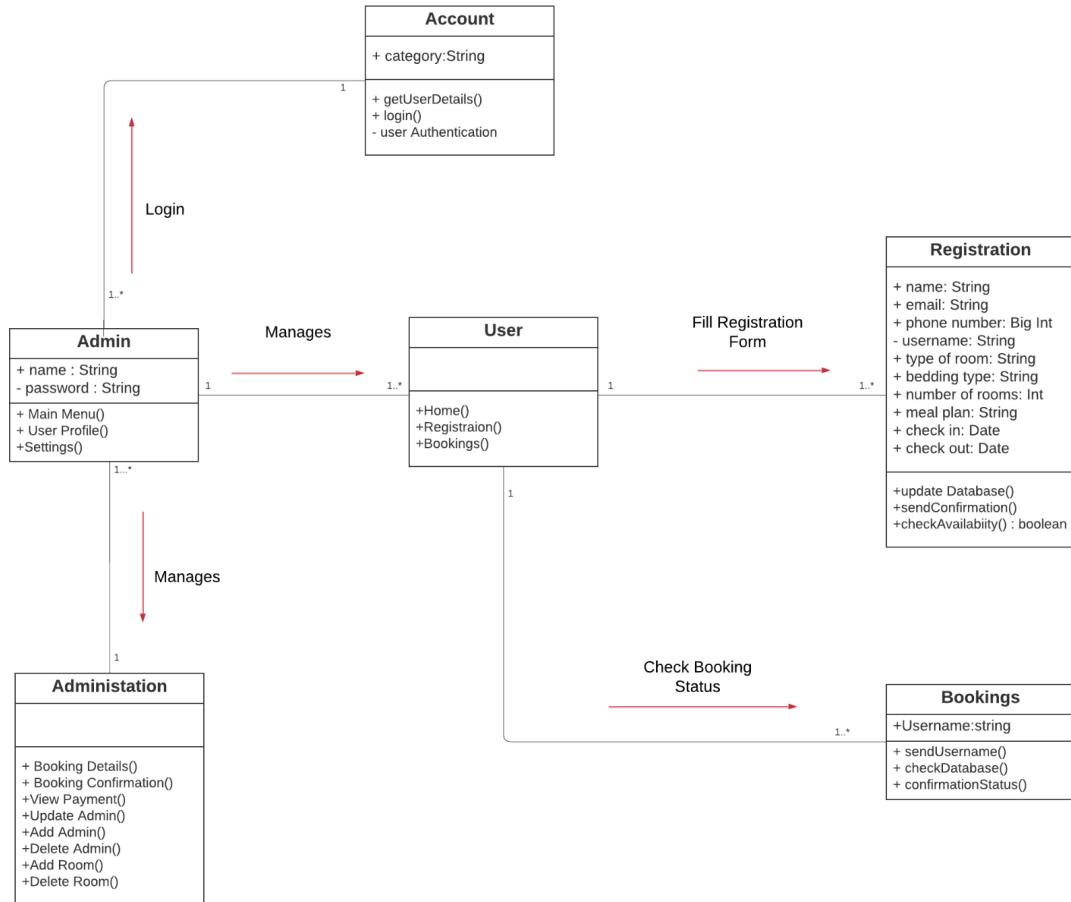


Activity Diagram



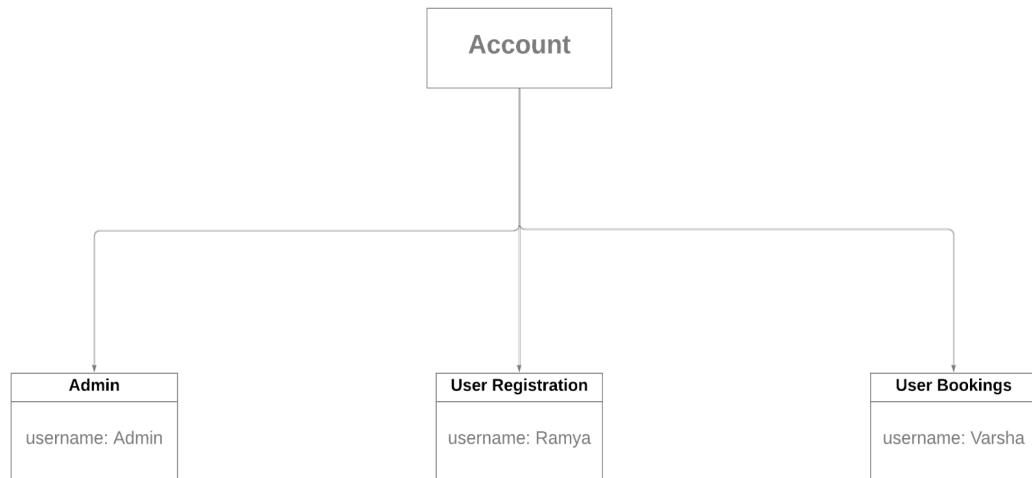
Class Diagram

Class Diagram

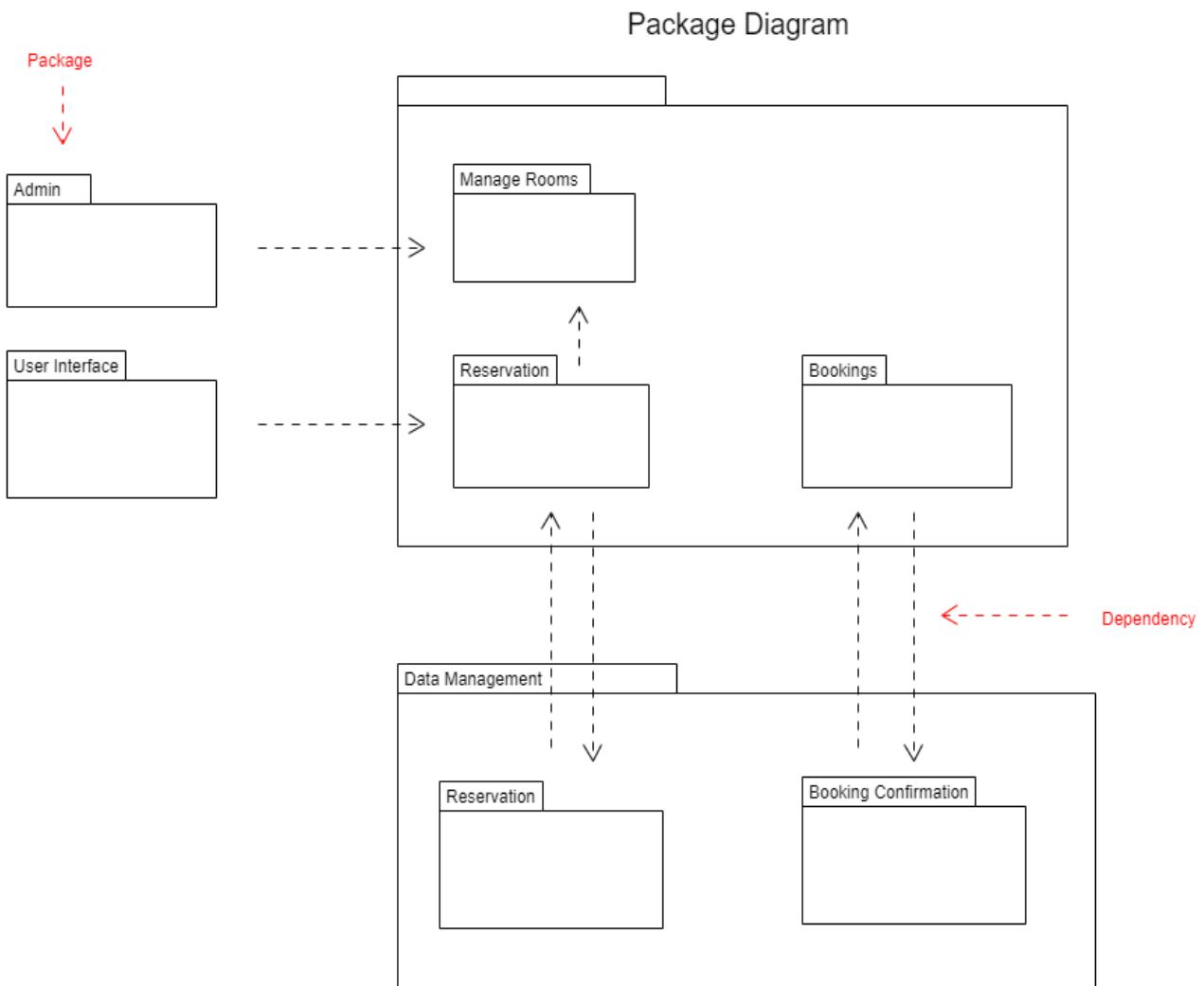


Object Diagram

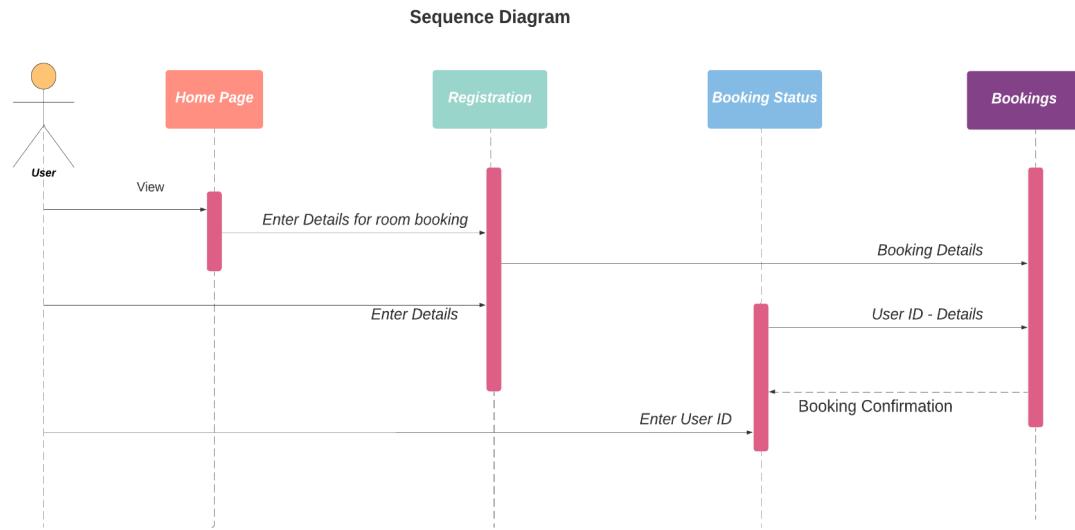
Object Diagram



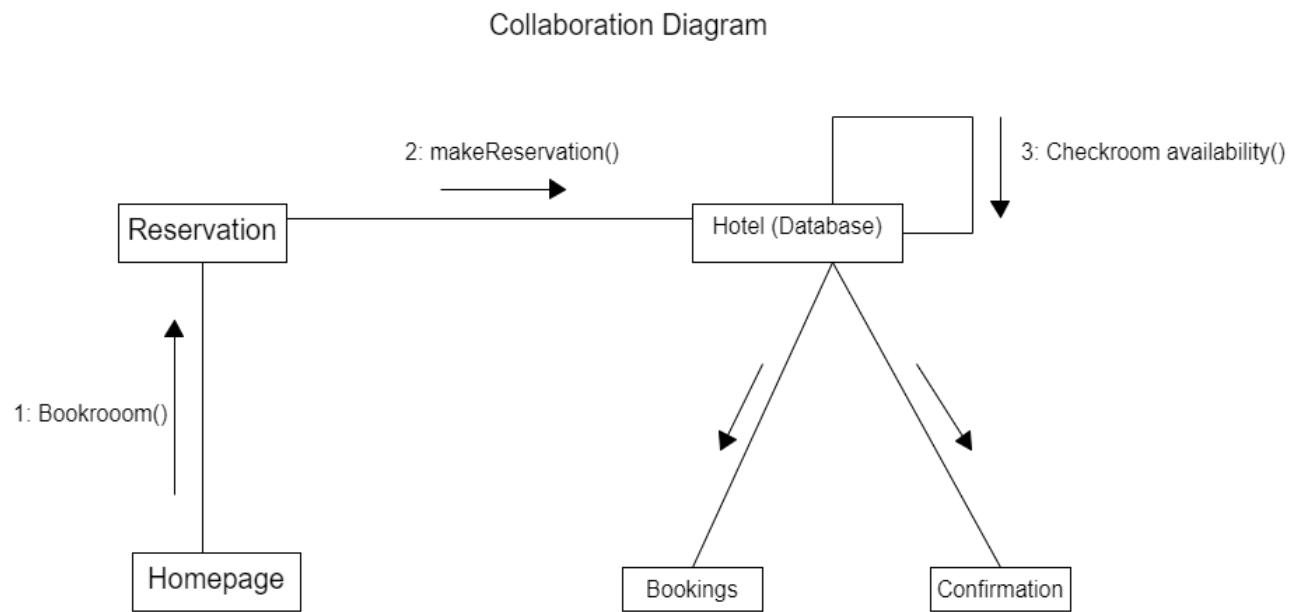
Package Diagram



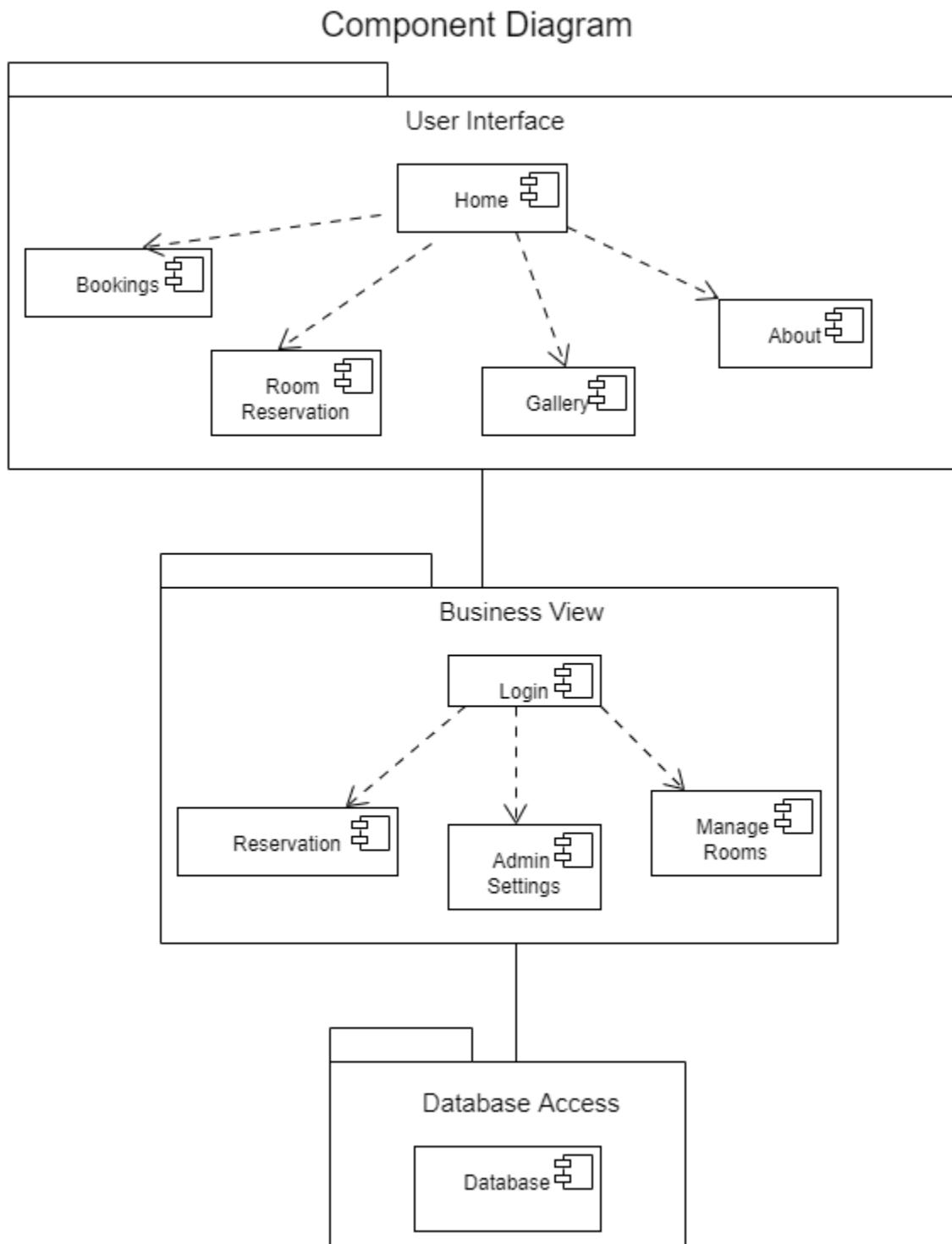
Sequence Diagram



Collaboration Diagram

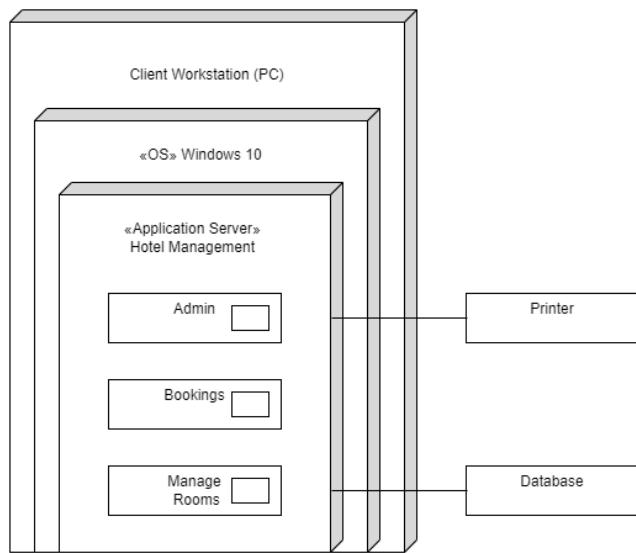


Component Diagram



Deployment Diagram

Deployment Diagram



Testing

Unit Testing:

Test case #	Test case Description	Test Data	Expected Result	Actual Result	Pass / Fail
1	Check response when valid username and password is entered	Username: Admin Password: Admin123	Login should be successful	Login was successful	Pass
2	Check the random code for human verification	71851282	Your booking should not be successful	Booking is not successful.	Pass
3	Check the bookings when a valid username is entered	Ramya	Room bookings should be displayed	Bookings displayed successfully.	Pass
4	Check the reservations when the user is booking twice using same username	Var	Room should be booked successfully	Booking is successful.	Pass
5	Check all the bookings of the same username	Var	All the room bookings of the specified user should be displayed	All the room bookings displayed successfully.	Pass

Integration Testing:

Test case #	Test case Description	Test Data	Expected Result	Actual Result	Pass / Fail
1	Check booking confirmation when admin confirms the booking	Username: Ramya	Booking status should be changed from Not Confirmed to Confirmed	Booking Status was displayed Confirmed	Pass