RESORT MANAGEMENT SYSTEM

A PROJECT REPORT SUBMITTED IN PARTIAL
FULFILMENT OF REQUIREMENT
FOR THE AWARD OF THE DEGREE

MASTER OF COMPUTER APPLICATIONS (MCA)

OF

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

BY

Jacob Mathew
Reg. No:22pmc127

Marian College Kuttikanam Autonomous

Peermade, Kerala – 685 531

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Under the guidance of
Ms. Reny Jose
Assistant Professor
PG Department of Computer Applications
Marian College Kuttikkanam Autonomous

MARIAN COLLEGE KUTTIKKANAM (AUTONOMOUS)

MAKING COMPLETE

Marian College Kuttikanam Autonomous

Peermade, Kerala – 685 531

2023

PG DEPARTMENT OF COMPUTER APPLICATIONS

Marian College Kuttikkanam Autonomous

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

KUTTIKKANAM – 685 531, KERALA.

CERTIFICATE

This is to certify that the project work entitled

" Resort Management System"

is a bonafide record of work done by

JACOB MATHEW

Reg. No:22pmc127

In partial fulfilment of the requirements for the award of Degree of

MASTER OF COMPUTER APPLICATIONS [MCA]

During the academic year 2022-2023

Ms. Reny Jose
Assistant Professor
PG Department of Computer Applications
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External Examiner

External Examiner

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Finally, I express my deep appreciation to all my friends and family members for the moral support and encouragement they have given to complete this project work successfully.

Jacob Mathew

ABSTRACT OF ONLINE HOSTEL MANAGEMENT

 Resort Management is a web application that is created for booking rooms for individuals. This will limit manual work and also make room allocation so much easier for people and resort administrators. It manages data in the database and retrieves it whenever required. We design this system at the request of the resort management, through this they cannot require people to handle and calculate things. The developed system overcomes the drawbacks of manual resort management it's said to be more user-friendly.

Current situation of resort administration framework is all the work is done physically. Various information or record copies of the resort and people data are kept in various divisions. Room is distributed by as per requirement of the users. Resort offices and other data are altogether kept in a booklet or is shown on notice board. Users data, staff data, room, status, complaints are keptin registers and requires manual entry.

This project is aimed at developing a system for keeping records and showing information about a resort. This system will provide full information about a user in the resort. It will show rooms and total number of people in a particular room. Resort management system is designed to manage all resort activities like resort booking, cost, room allotment & generates related reports for smooth transactions.

The modules are Registration, Room Allocation, Report. This software Online Resort Management is developed using Python, Sqlite. Here, Python and Sqlite as back-end and HTML and CSS as front end. The software tools here is Microsoft SQL Server, here any web browser can be used. The development tool used here is pycharm.

Here I have done unit testing each module have been tested. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly and more GUI oriented.

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1.INTRODUCTION

1.INTRODUCTION

1.1 PROBLEM STATEMENTS

Current situation of resort administration framework is all the work is done physically. Various information or record copies of the resort and guests data are kept in various divisions. Room is distributed by the room necessities and as per requested by the guest. Resort offices and other data are altogether kept in a booklet or is shown on notice board. Guests data, staff data, user registration, room, status, complaints are kept in registers and requires manual entry

1.2 PROPOSED SYSTEM

This project is aimed at developing a system for keeping records and showing information about a resort. This system will provide full information about a student in the resort. It will show rooms ,rate and number of people in a particular room. Resort management system is designed to manage all resort activities like guests entry, rate, room & generates related reports for smooth transactions.

1.3 FEATURES OF PROPOSED SYSTEM

- It is users friendly.
- Involves a less of human efforts.
- Time consuming is less.
- User can book their room through online

2.FUNCTIONAL

REQUIREMENTS

2.1 MODULE SPECIFICATION

- Registration Module
- Room Module
- Report Module

Registration Module : Users can register to the resort. User enters the required fields provided and its mandatory. This section provides an online form to the guests which can be filled by them

Room Module : User can select their required rooms. Admin can add rooms, delete and update room details. User can see the room number, rate & can see the number of persons allowed in a room. After that user can check theirbookings.

Report Module : Admin and User can access the page. Admin can view the report of each guests and if needed admin can print the report. Automatically reports are generated for guests regarding their room, rate, personal details etc.

3.NON FUNCTIONAL REQUIREMENTS

3. NON FUNCTIONAL REQUIREMENT

- **Performance Requirement**

  System Should be Error-free.

  Large amount of data should be handled easily.

- **Safety Requirement**

  Backups can be done regularly.

- **Security Requirement**

  A password is given to the SQL server. Administrator and the end user, who have their own user name and password. have only the right to open the software.

4.   UML DIAGRAM

4.UML DIAGRAM

4.1 USE CASE

1. Registration
2. Room
3. Report

1.REGISTRATION

| Use case id	U01
Use case name	Registration
Created by	Jacob
Date created	10/09/2022
Description	This use case allows users to register to the system & create an account to the system. The user should enter their name, address, email, department, year, dob, phone number, password etc. for the registration
Primary Actor	User
Secondary Actor	None
Preconditions	User have to create an account
Main Flow	- The user enter name, address, email, department, year, dob, phone number, password etc. - The user submits the details after entering the fields - The system validates the details provided by the user - The system creates an account - The use case ends
Alternative flow	Invalid name, address, ph. number, password etc

2 ROOM ALLOTMENT

|	
Use case id	U02
Use case name	Room Allotment
Created by	Jacob
Date created	10/09/2022
Description	This use case allows the user to select the rooms according to their needs and also select food needed or not.
Primary actor	User
Secondary actor	Admin
Preconditions	• User have a valid account • System displays the room type & mess details
Main flow	• User enter the username and password • User can select the room they want. • Admin can see the booking. • Use case ends
Alternative flows	• Missing email or password • Missing rooms • Admin has no account

3 REPORTS

| Use case id	U03
Use case name	Report
Created by	Jacob
Date created	10/09/2022
Description	The user will get the report about their fee, personal details, room details etc.
Primary Actor	User
Secondary Actor	Admin
Preconditions	• User must have a valid account • Admin must have a valid account • System displays the report of the user
Main Flow	• The user enter the username & password • Get into the system • Get the report • Admin can access the report • Use case ends
Alternative Flow	• Missing username or password • User or admin cannot have a account

4.2 USE CASE DIAGRAM
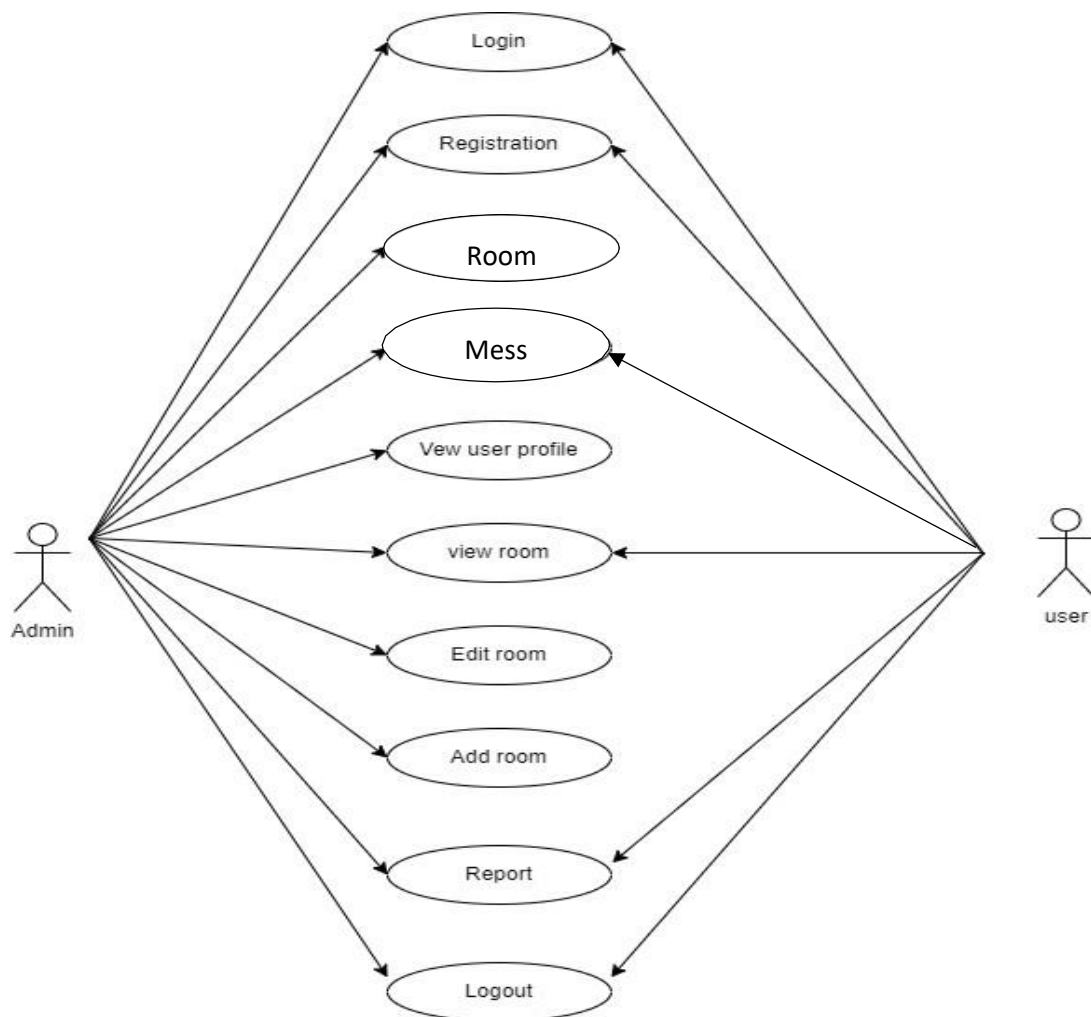
4.3 ACTIVITY DIAGRAM

ACTIVITY DIAGRAM FOR ADMIN
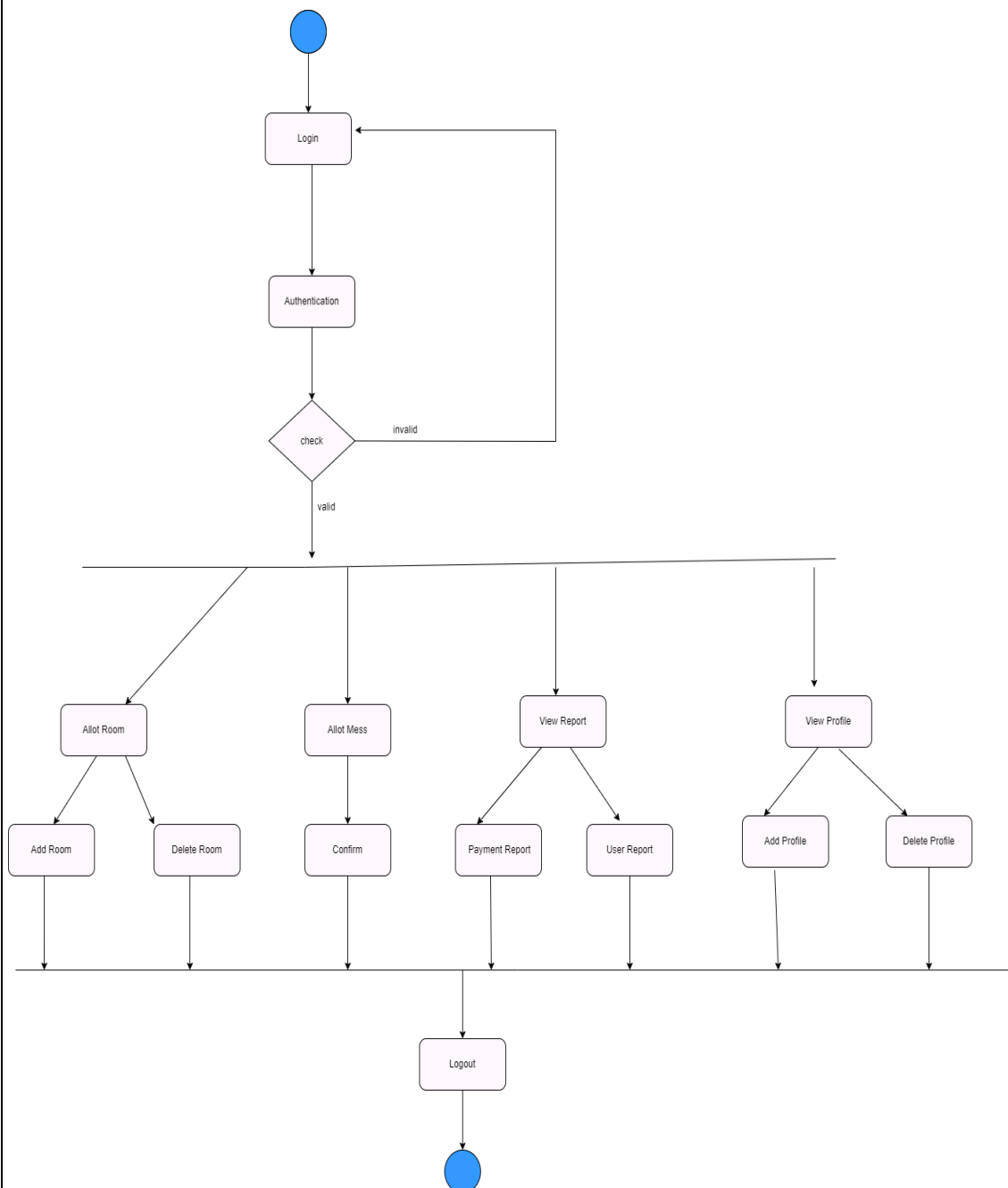
ACTIVITY DIAGRAM FOR USER
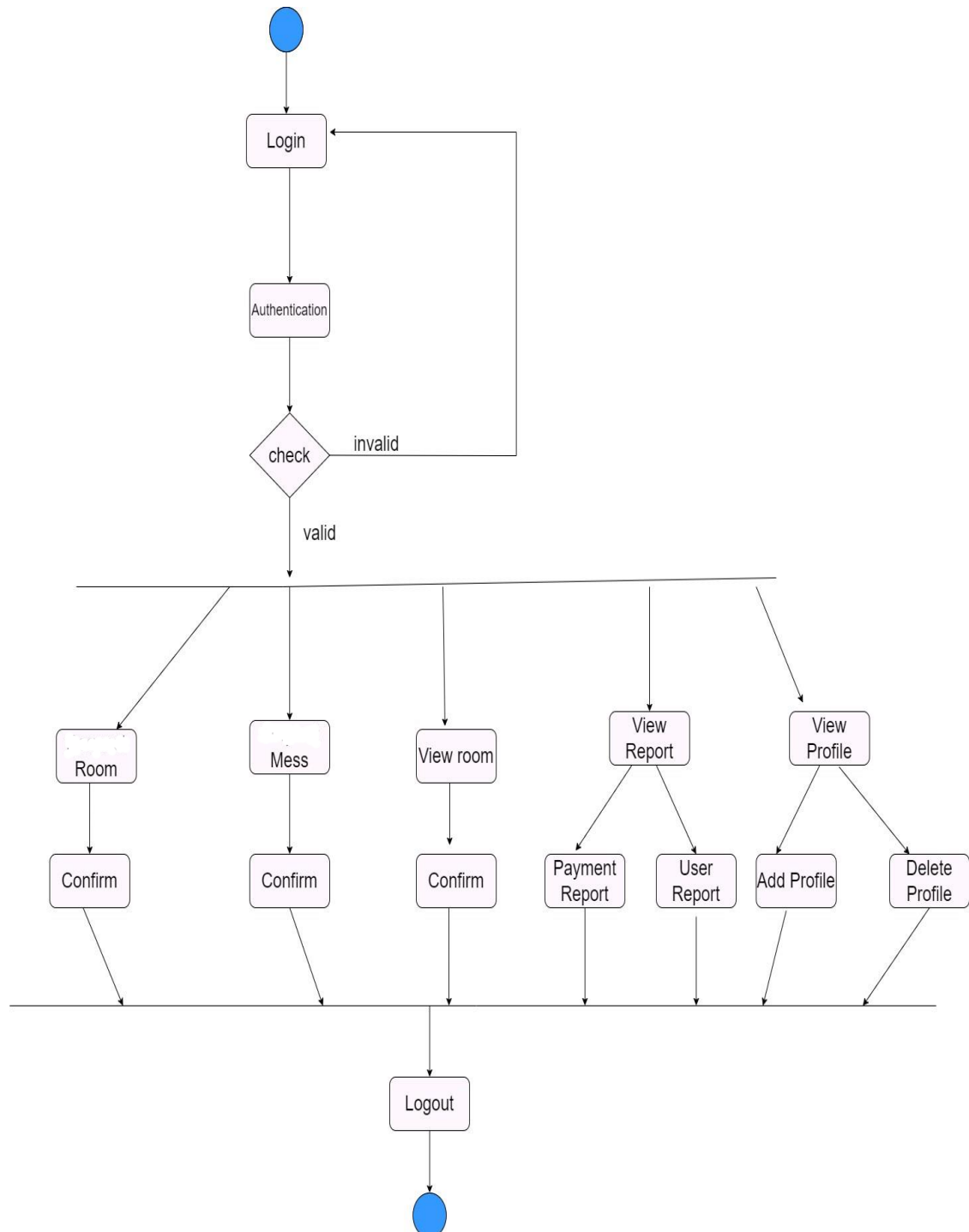
4.4 CLASS DIAGRAM
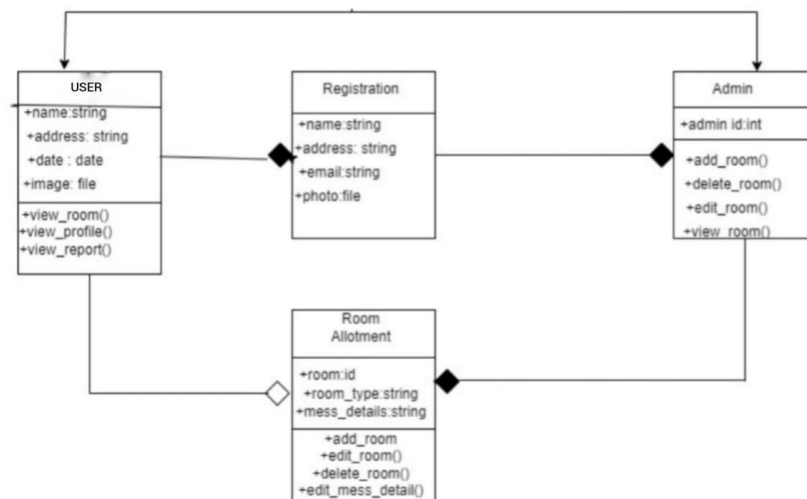
DATABASE DESIGN

1.Table Name: USER REGISTRATION

 Primary key: Email

SI NO	Field Name	Data Type	Constraints	Description
1	First name	Varchar (20)	Not null	First name of the user
2	Last name	Varchar (20)	Not null	Last name of the user
3	Reg no	Int	Not null	Register no of user
4	Image	File	Not null	Image of the user
5	Contact number	Int	Not null	phone number
6	Email	Varchar (20)	Not null	Email
7	Reg Date	Date	Not null	Date

2 Table Name: ROOMS

SI NO	Field Name	Data Type	Constraints	Description
1	Room no	int	Not null	Room no
2	Capacity	varchar (20)	Not null	No of person in a room
3	Rate	varchar (20)	Not null	Room fee
4	Type	Varchar(20)	Not null	Type of room

3.Table Name: REGISTRATION

 Foreign key: room, user registration

SI NO	Field Name	Data Type	Constraints	Description
1	Rooms	varchar(20)	Foreign key	Rooms
2	Status	varchar (100)	Not null	Room Status
3	Stay from	Varchar(100)	Not null	date of staying
4	Check in	Date	Not null	Date coming to resort
5	Check out	Date	Not null	Date going from resort
6	Contact no	Int	Not null	Phone number
7	Father Name	Varchar (100)	Not null	Name of father
8	Contact	Int	Not null	Contact of father
9	User name	Int	Not null	Name of user
10	Correct address	Varchar (100)	Not null	Address
11	Correct city	Varchar (100)	Not null	City
12	Correct state	Varchar (100)	Not null	State

6.   TEST CASES

6.1 REGISTRATION

SI NO	TEST CASES	FEATURE	DESCRIPTION	STEPS TO EXECUTE	EXPECTED RESULT
1	TC-01	User Interface	Check all the text box and buttons	Check page	UI should be perfect. Text box and button should align.
2	TC-02	Name	Check whether the name contain number	Check the field	The field Should not contain any number
3	TC-03	Address	Check the address contain other than character	Check the field	The field should contain only character.
4	TC-04	Email	Check whether the entered email id is in a proper format	Check the email id is correct	If the email is correct, message the entered email id is valid otherwise not valid
5	TC-05	Phone number	Check the phone number contain 10 digit number	Check the phone number	Filed should contain only numbers.
6	TC-06	Image	Check the field is empty or not	Check the field	Field should not contain an image
7	TC-07	Registration date	Check the field is not empty	Check the field	Field should contain date.

6.2 LOGIN

Sr No .	Test cases	Feature	Description	Steps to Execute	Expected Results
1	Tc-001	Required fields	Check the required fields By not filling any data	1.Do not enter any value in the field 2.click on the login button	It should show a message, required field
2	Tc-002	Required fields	Check user should login by filling all the required fields	1. Enter valid values in the required fields. 2. Click the login button.	1. Users should be login successfully. 2. Go to home page.
4	TC-05	Password Validation	Check the password limit when enter value less than min	1. Enter value which is alphanumeric but less than 8. 2.Click on Login button	It should show validation message

6.3 BOOK

Sr No .	Test cases	Feature	Description	Steps to Execute	Expected Results
1	Tc- 001	Required fields	Check the required fields By not filling any data	1.Do not enter any value in the field 2.click on the Add button	It should show a required fields message
2	Tc-002	Required fields	Check user have filled all the required fields	1. Enter valid values in the required fields. 2. Click the book button.	1. Users should book successfully. A successful add message should show.
3	Tc-003	Email	Check field by entering invalid email	1. Enter an invalid email pattern 2. Click on the book button	1. It should show a error message 2. User should not be able to book room
4	Tc-004	Stay from	Check the field by not entering the data	Click on the book button.	A required field message should show
5	TC-05	Phone number	Check the phone number	1.Click on book button	A error message showing only numbers.
6	TC-05	Room type	Check the field without selecting the room type	Click on the book button	Message showing please select the room type

7.INPUT DESIGN
AND
OUTPUT DESIGN

7.1 INPUT DESIGN

In the input design, the user oriented inputs are converted into computer recognizable format. The collection of input data is the most expensive part of the system in terms of equipment used, time and number of users involved. Input design is the processes of converting user oriented inputs to a computer based format. The goal of designing input data is to make data entry as easy, logical and free from errors as possible.

- Registration Form- Here the customer creates their accounts using the relevant details asked to fill for and it is stored to the database and used whenever it is needed.

- Login Form- The admin, the customer login to the website, to their account using their particular username and password.

- Room Booking Form- The user can book room to the website using this form filling the relevant information such as name ,email, stay from, duration, phone number, room type.

- Book Form-The admin can access the booking details of student. Room type, room number, rate, number of beds can be maintained by admin

.2 OUTPUT DESIGN

The goal of the output design is to capture the output and get the data into format suitable for the computer. One of the important features of an information system for users is the output it produces. Output is the information delivers to the users through the information system. Without quality output the entire system appears to be unnecessary that users will avoid using it. The output design is the key to the success of any system because it is the system relationship with the user, we must determine the information is present and arrange the information in the acceptable format that is when to display the information.

- Logout- The button that helps the customer to logout from the website.
- Login- The button helps to log in to the website to book their rooms.
- Register- The button that allows the customer to register for their account.
- Book-The button that allows the customer to book their rooms.

8. FUTURE ENHANCEMENT

8.1 FUTURE ENHANCEMENT

The project has a very vast scope in future. This software Online Resort Management is developed using Python, MySQL. Here, Python and MySQL as back-end and HTML and CSS as front end. In the future, the system can be further modified by including more features very easily such as including more rooms to control the store. And adding mess. Payment for users. Also can create Newsletter about the resort, create complaint pages etc.

The main objective of developing resort management system is to save money and time calculate price, payment processing and generation of reports for the management. The world of computer fields is not static it is always subject to be dynamic.

To keep abstract of technical improvements, the system may be further refined. So, it is not concluded. Yet it will improve with the future enhancement. Enhancement can be done in an efficient manner. We can even update the same with further modification and can be integrated with minimal modification. Thus the project is flexible and can be enhanced at any time with more advanced feature

9.   CONCLUSION

9.1 CONCLUSION

All of the fundamental operations of the cake store are intended to be automated by the new system that is being suggested. With this method, a brand-new online shop will be established, and customers will be able to buy item there. Online shopping is quite convenient. On the website, we can also check the price. Use of a user account is necessary for purchasing.Thus, the new system that is being proposed fixes some of the key problems with the current system. Online cake shopping was created to make buyingcakes simple and secure. This programme will lessen the amount of manual work neededto maintain all records of sales and purchase.

The user registration module makes up the proposed system. The registered user has access to and the ability to buy any kind of cakes. To prevent any mis understandings, the user's information will be kept private. This website aims to consolidate resources and give users information in a more convenient, impressive, and appealing manner.
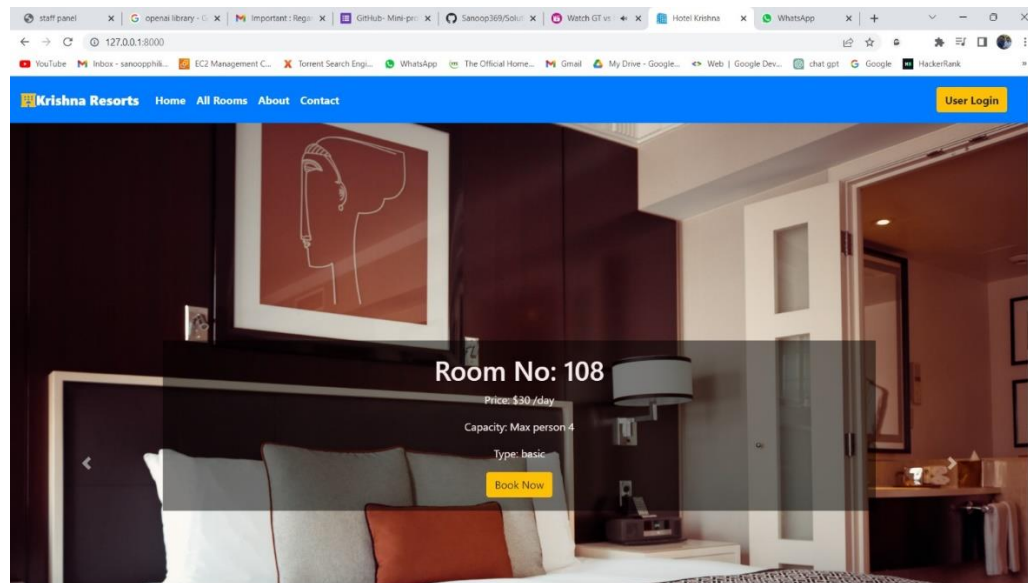
Customers can examine their shopping at any moment when they shop for cakes online. Customers can browse a huge selection of the system's products, and they can also access the system from anywhere in the world to make purchases. It is now simpler to order cakes online. The system permits more privacy. In other words, they can browse the item details without disclosing any personal information.
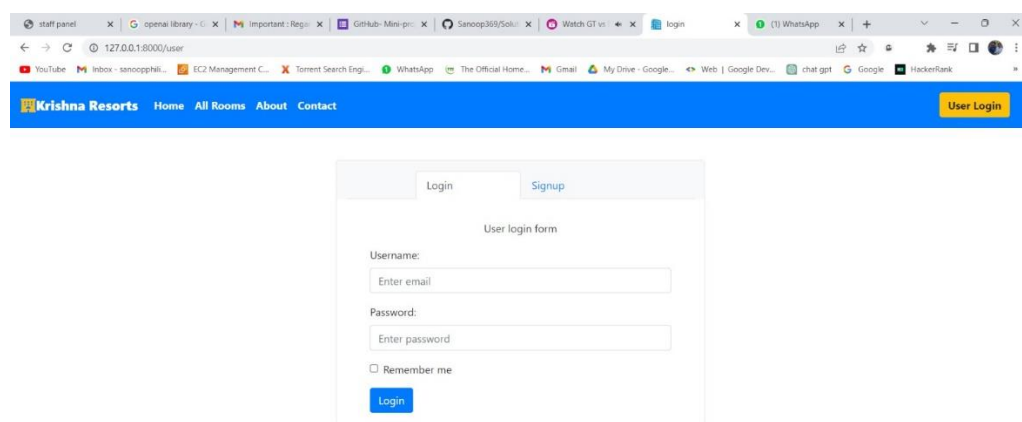
10.   REFERENCES

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11.APPENDIX
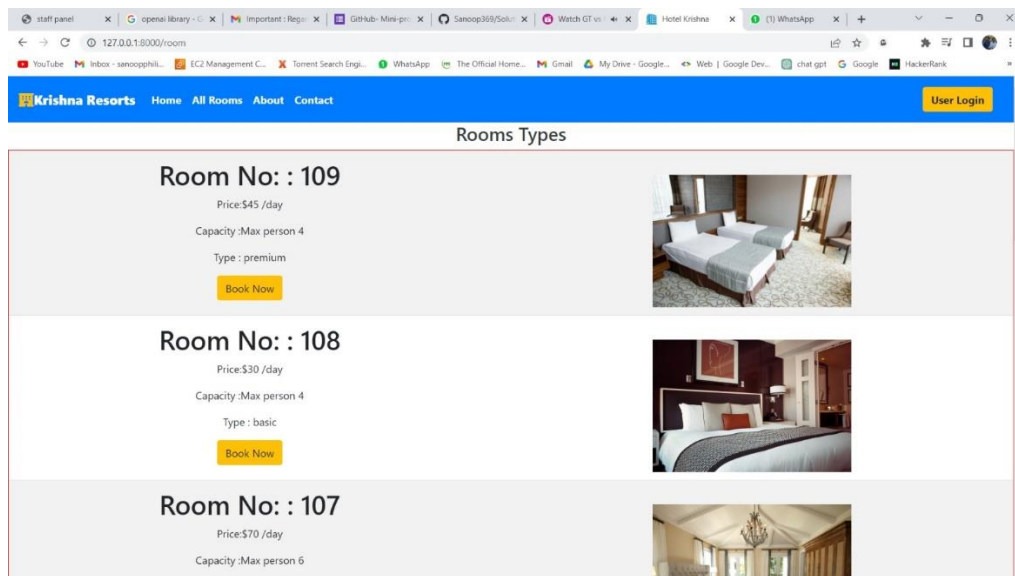
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BOOKING

MY BOOKING

ROOM STATUS