

LAB REPORT

Submitted by

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Under the Guidance of

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In partial satisfaction of the requirements for the degree of

**BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE ENGINEERING
with specialization in Big Data Analytics**



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

MAY 2023



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

BONAFIDE CERTIFICATE

Course project titled **HOLIDAY ESTATE BOOKING SYSTEM** certified to be
the bonafide work done by **SHRADDHA SRIVASTAVA**
[RA2111027010143] of II Year/IV Sem B.Tech Degree Course in the
Practical Software Engineering and Project Management 18CSC206J in
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Kattankulathur
during the academic year 2022 – 2023.

LAB INCHARGE

Head of the Department

Name of the Faculty

Designation

Department of Computing Technologies

SRMIST – KTR.

Date :

ABSTRACT

The Holiday Estate Booking System is a software project designed to revolutionize the booking process for holiday estates for government employees and touring officers. The system aims to streamline and enhance the efficiency of booking holiday estates, providing a seamless experience for both estate management and customers. By leveraging advanced technology and intuitive user interfaces, the system simplifies the search, reservation, and management of holiday estates.

Through a user-friendly interface, customers can easily browse through available holiday estates, view detailed information, and make real-time reservations. The system incorporates various features such as interactive property galleries, customer reviews, and online payment options, enabling customers to make informed decisions and complete bookings effortlessly.

The Holiday Estate Booking System also offers scalability and adaptability to meet the evolving needs of the holiday estate industry. It can accommodate multiple estates, properties, and booking types, allowing for future expansion and growth.

Overall, the Holiday Estate Booking System aims to transform the way holiday estates are booked and managed. It enhances the efficiency, accuracy, and convenience of the booking process, providing a superior experience for both customers and estate management. With its robust features, scalability, and adaptability, the system is poised to revolutionize the holiday estate industry and contribute to its growth and success.

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LIST OF ABBREVIATIONS

ABBREVIATION DEFINITION:

HTML - Hypertext Markup Language

CSS - Cascading Style Sheets

GUI - Graphical User Interface

LOC - Lines of Code

KLOC - Thousands (Kilos) of Lines of Code

E - Effort Applied

D - Development Time

P - People Required

WBS - Work Breakdown Structure

ER DIAGRAM - Entity Relationship Diagram

DFD - Data Flow Diagram

UML - Unified Modelling Language



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	1
Title of Experiment	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143)
Register Number	RA2111027010145
Date of Experiment	24-01-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim:

To Frame a project team, analyze and identify a Software project. To create a business case and Arrive at a Problem Statement for the Holiday Estate Booking System.

Team Members:

S. No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Lead/Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member

Project Title: Holiday Estate Booking System

Project Description: The Holiday Estate Booking System administers the booking of Holiday Homes and Touring Officers' Hostels (TOH) of employees working in the public sector trying to avail the services from the company.

All the Holiday Homes and Touring Officers' Hostels have various types of rooms to cater to the different requirements of guests.

All the bookings, payments, cancellation and other required provisions of Holiday Homes and TOH are done online through this system.

The bookings are done on 'first-come, first-serve' basis subject to fulfillment of prescribed eligibility, time limit and payment of booking charges, etc.

Business Case:

Business Case template attached below.

Result:

Thus, the project team formed, the project was described, the business case was prepared and the problem statement was arrived at.

ONE PAGE BUSINESS CASE TEMPLATE

LOG

DATE	24 January 2023
SUBMITTED BY	ANCHITA RAWAT
TITLE / ROLE	Team Leader

THE PROJECT

In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

- The Holiday Estate Booking System administers the booking of Holiday Homes and Touring Officers' Hostels (TOH) of employees working in the public sector trying to avail the services from the company.
- All the Holiday Homes and Touring Officers' Hostels have various types of rooms to cater to the different requirements of guests.
- All the bookings, payments, cancellation and other required provisions of Holiday Homes and TOH are done online through this system.
- The bookings are done on 'first-come, first-serve' basis subject to fulfillment of prescribed eligibility, time limit and payment of booking charges, etc.

THE HISTORY

In bullet points, describe the current situation.

In the previous outdated versions of the employee accommodation booking system the users have faced numerous problems during the booking of their desired accommodation :

- ☐ Outdated and non friendly system
 - ☐ No cancellation
 - ☐ No refund whatsoever ; leaving the users with much despair in case of change of plans
-
- ☐ No proper provision for catering

LIMITATIONS

List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

- Estates being located in the outskirts of the city
- Unavailability of resources/ public transport at the location
- Limited number of accommodations/rooms

APPROACH

List what is needed to complete the project.

- HTML
- CSS

BENEFITS

In bullet points, list the benefits that this project will bring to the organization.

- Pocket friendly
- Personalized services
- Speedy check ins and check outs
- Cancellation and Refund
- Homely feeling



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	Identification of Process Methodology and Stakeholder Description
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) NAGA HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	02-02-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim

To identify the appropriate Process Model for the project and prepare Stakeholder and User Description.

Team Members:

Sl No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Lead/Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	NAGA HAREESH REDDY	Member

Project Title: Holiday Estate Booking System

Selection of Methodology:

- A software-process-model is a brief representation of how a software process works. It helps to develop a software as per the functionality of the user keeps a sequence of steps followed for a good software. A process model is chosen based on the nature of the project and application, the methods and tools to be used for functionalities that are required as per user. For the Holiday Estate Booking System we choose AGILE MODEL.

AGILE MODEL:

Agile Model is a project management approach that values customer collaboration, flexibility, and delivering working products frequently. It is an iterative and incremental approach to software development that prioritizes customer satisfaction and delivers a minimum viable product (MVP) in a short time frame. Agile is a collaborative and flexible approach that encourages communication and teamwork between stakeholders, including the customer, development team, and project manager. The most well-known Agile methodology is Scrum, but there are several other popular methodologies such as Kanban, Lean, and XP (Extreme Programming). The Agile approach is commonly used in software development but can be applied to any project that requires frequent adaptation and improvement

Why Agile Model:

The Agile model is favored for several reasons:

1. **Customer Satisfaction:** Agile prioritizes delivering value to the customer by involving them in the development process and regularly delivering working products. This ensures that the final product meets the customer's needs and expectations.
2. **Flexibility and Adaptability:** Agile methodologies embrace change and encourage adaptation. The iterative nature of Agile allows for adjustments to be made throughout the project, resulting in a better end product.
3. **Collaboration and Communication:** Agile emphasizes communication and collaboration between team members and stakeholders. This leads to better understanding, reduced misunderstandings, and improved teamwork.
4. **Faster Time to Market:** By delivering working products frequently, Agile helps reduce the time to market and get products in the hands of users faster.
5. **Improved Quality:** The focus on delivering working products and regular feedback from customers helps identify and resolve issues early, resulting in higher quality products.

Advantages of Agile Model:

1. **Increased Visibility:** Agile provides increased visibility into the progress of the project and helps identify potential roadblocks early, allowing for proactive problem-solving.
2. **Better Resource Utilization:** Agile allows for more efficient use of resources by focusing on delivering the most important features first and avoiding wasted effort on features that may not be used.
3. **Increased Motivation:** Agile encourages self-organizing and cross-functional teams, which can lead to increased motivation and job satisfaction among team members.

Disadvantages of Agile Model:

1. **Lack of Structure:** While Agile provides flexibility, some organizations may struggle with the lack of structure and clear processes that traditional project management methodologies provide.

2. Challenges with Scope Creep: Agile encourages flexibility and change, which can lead to scope creep if not managed properly. This can result in scope creep and an increase in the time and resources needed for a project.
3. Limited Documentation: Agile values working software over comprehensive documentation, which can be a disadvantage for organizations that require detailed documentation for regulatory or compliance purposes.

<u>Stakeholder Name</u>	<u>Activity/Area</u>	<u>Interest</u>	<u>Influence</u>	<u>Priority</u>
Product Owner	The product owner is responsible for representing the customer and defining the product backlog, which is the prioritized list of features and requirements for the project.	High	High	1
Development Team	The development team is responsible for delivering working software and implementing the features and requirements defined by the product owner.	High	High	1

Scrum Master	The scrum master is responsible for facilitating the Agile process and ensuring that the team follows the Agile methodology.	Medium	High	2
Stakeholders	Stakeholders include any individuals or organizations who have an interest in the project and its outcome. This can include customers, management, business sponsors, end-users, and other project stakeholders.	High	Medium	2

Management	Management is responsible for supporting the Agile process and ensuring that the necessary resources and funding are	Medium	Medium	1
	available for the project.			
Other teams	may be impacted by or impact the product being developed.	Medium	Medium	4

Result:

Thus the Project Methodology was identified and the stakeholders were described.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	3
Title of Experiment	System, Functional and Non-Functional Requirements of the Project
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	07-02-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim:

To identify the system, functional and non-functional requirements for the project.

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Leader/Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Project Title: Holiday Estate Booking System

System Requirements: I

Hardware Requirement-

i. Laptop or PC

- Windows 7 or higher
- I3 processor system or higher
- 8 GB RAM or higher
- 100 GB ROM or higher

ii. Android/ Ios Phone (6.0 and above)

Functional Requirements:

- Associate every online booking with an account.
- Limit every account to a single user.

- Enable users to search and find the most relevant booking options.
- Accept date and time to check available rooms for that particular time.
- Booking confirmation should be sent to the specified contact details.
- Calculate and display accommodation charges and other utilities.
- Cancel bookings.
- Refund.
- Display and change records of guests.
- Allocation of booked rooms can be modified as per the customers' requirements.
- Provision of clear and descriptive food menu.

Non-Functional Requirements: Non functional requirements are usually some form of constraint or restriction that must be considered when designing the solution. Non functional requirements tend to identify user constraints and system constraints.

- **USABILITY:-** Interface should be comfortable so that it will be easy for the user to operate. The tool must be intuitive or easily understood after the tutorials and user guide. Display should be presentable.
- **CHANGEABILITY:-** The software should be designed in such a way that any future modifications or improvisation can be done with much more functionality. And Agile methodology would enable us to do so.
- **EFFICIENCY:-**The project must be efficient enough so as to provide reliable results.
- **PORTABILITY:-**The system should be able to run on any platform.
- **UNDERSTANDABILITY:-**The software should enable users to understand whether the software is suitable. The software should be understandable and easy for users to know more about the holiday estate and make further development in future.

The main point to remember is that this technology enables guests to choose and book their own rooms online via a secure portal. It must be straightforward and safe, but it must also offer you the same convenience and range of use it does your guests. This way, it won't only make life easier but you can use the data it provides to source more revenue and profit for your guest house.

Result: Thus the requirements were identified and accordingly described.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	13-02-23

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim

To Prepare Project Plan based on scope, Calculate Project effort based on resources, Find Job roles and responsibilities.

Team Members:

Sl No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Lead
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Requirements:

System Requirements: I

Hardware Requirement-

i. Laptop or PC

- Windows 7 or higher
- I3 processor system or higher
- 8 GB RAM or higher
- 100 GB ROM or higher

ii. Android/ Ios Phone (6.0 and above) **Functional**

Requirements:

- Associate every online booking with an account.
- Limit every account to a single user.
- Enable users to search and find the most relevant booking options.
- Accept date and time to check available rooms for that particular time.
- Booking confirmation should be sent to the specified contact details.
- Calculate and display accommodation charges and other utilities.

- Cancel bookings.Refund.
- Display and change records of guests.
- Allocation of booked rooms can be modified as per the customers' requirements.
- Provision of clear and descriptive food menu.

Non-Functional Requirements:

Non functional requirements are usually some form of constraint or restriction that must be considered when designing the solution. Non functional requirements tend to identify user constraints and system constraints.

- **USABILITY:-** Interface should be comfortable so that it will be easy for the user to operate. The tool must be intuitive or easily understood after the tutorials and user guide. Display should be presentable.
- **CHANGEABILITY:-** The software should be designed in such a way that any future modifications or improvisation can be done with much more functionality. And Agile methodology would enable us to do so.
- **EFFICIENCY:-**The project must be efficient enough so as to provide reliable results.
- **PORTABILITY:-**The system should be able to run on any platform.
- **UNDERSTANDABILITY:-**The software should enable users to understand whether the software is suitable. The software should be understandable and easy for users to know more about the holiday estate and make further development in future.

1. Project Management Plan

Describe the key issues driving the project. [Min 3 Focus Areas]

Focus Area	Details
Integration Management	Governance Framework Project Team Structure Roles & Responsibilities of Team Change Management (Change Control, Issue Management) Project Closure
Scope Management	Scope Statement Requirement Management (Gathering, Control, Assumption, Constraint Stakeholder) Define Deliverable Requirement Change Control Activities and Sub-Tasks
Schedule Management	Define Milestones Schedule Control
Cost Management	Estimate Effort Assign Team Budget Control
Quality Management	Quality Assurance: Quality assurance will be managed including governance, roles and responsibilities, tools and techniques and reporting Quality Control: Specify the mechanisms to be used to measure and control the quality of the work products
Resource Management	Estimate and Manage the need People: People & Skills Required Finance: Budget Required Physical: Facilities, IT Infrastructure
Stakeholder	Identifying, Analyzing, Engaging Stakeholders
Communication Management	Determine communication requirements, roles and responsibilities, tools and techniques. [Type of Communication, Schedule, Mechanism Recipient]

Risk Management	Identifying, analyzing, and prioritizing project risks
Procurement Management	Adhering to organization procurement process

Estimation

1.1. Effort and Cost Estimation

Activity Description		Sub-Task	Sub-Task Description	Effort (in hours)	Cost in INR
Design the user screen		E1R1A1T1 (Effort-Requirement-Activity-Task)	Confirm the user requirements (acceptance criteria)	3	1500
		E1R1A1T2	Analyze the risk factor and problems associated with this project (Risk Management)	4	2000
		E1R1A1T3	Initialization and Implementation of the resources for making the project productive (Implementation and Development of project)	15	7500
Identify Data Source for displaying units of Energy Consumption			Go through Interface contract (Application Data Exchange) documents	5	2500
			Document	3	1500
Effort (hr)	Cost (INR)				
1	500				

1.2.Infrastructure/Resource Cost [CapEx]

< OneTime Infra requirements >

Infrastructure Requirement	Qty	Cost per qty	Cost per item
IR1	UI/UX Design Panel and Template	1 Design Panel 4 Design Templates	10000
IR2	Database Creation and Management server	1	5000
IR3	Payment Gateway Access	1	2000
IR4	Cloud Server for Database	1	4000
IR5	PC'S	1	50000
IR6	Geofencing/ Navigation	1	3000

2.3 Maintenance and Support Cost [OpEx]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin Developer , Support Consultant	3	2,000,000	6,000,000
License	Operating System Database Middleware IDE	10	10000	100,000
Infrastructures	Server, Storage and Network	20	20000	400,000

2.Project Team Formation

2.1 Identification Team members

Name	Role	Responsibilities
Government	Key Business User (Product Owner)	Provide clear business and user requirements
Anchita Rawat	Project Manager	Manage the project

Shraddha Srivastava	Business Analyst	Discuss and Document Requirements
Hareesh Reddy	Technical Lead	Design the end-to-end architecture
Shraddha Srivastava	UX Designer	Design the user experience
Hareesh Reddy	Frontend Developer	Develop user interface
Anchita Rawat	Backend Developer	Design, Develop and Unit Test Services/API/DB
Anchita Rawat	Cloud Architect	Design the cost effective, highly available and scalable architecture
Shraddha Srivastava	Cloud Operations	Provision required Services
Anchita Rawat/ Shraddha Srivastava	Tester	Define Test Cases and Perform Testing

2.2 Responsibility Assignment Matrix

RACI Matrix		Team Members			
Activity		Shraddha Srivastava (BA)	Hareesh Reddy (Developer)	Anchita Rawat (Project Manager)	Government (Key Business User)
User Requirement Documentation		A	C/I	I	R
Advertisement		R	C/I	A	-
Development		C/I	A	R	-
Website Design		R	C/I	A	-
Testing / Deployment		C/I	A	R	-
Bug Fixes		C/I	R	A	-
Update & Upgrade		A	R	R	-
A	Accountable				
R	Responsible				
C	Consult				
I	Inform				

Result:

Thus, the Project Plan was documented successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	5
Title of Experiment	Prepare Work breakdown structure, Timeline chart, Risk identification table
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	25-02-23

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim:

To Prepare Work breakdown structure, Timeline chart and Risk identification table

Team Members:

SI No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

WBS

1.0 Project Initiation

1.1 System Architecture

1.2 Top level project plan

2.0 Hardware

3.0 Software Systems

3.1 Reservations/Bookings

3.1.1 Code & Unit Testing

3.1.2 Detailed Design

3.1.2.1 User Interface

3.1.2.2 Internal Clock

3.1.2.3 Database Res/Booking Room

3.1.3 System Testing

3.2 Food Service

3.2.1 Code & Unit Testing

3.2.2 Detailed Design

3.2.3 System Testing

4.0 Documentation

5.0 Project Management

5.1 Integration Testing

5.2 System Testing

5.3 Code & Unit Testing

5.4 Detailed Design

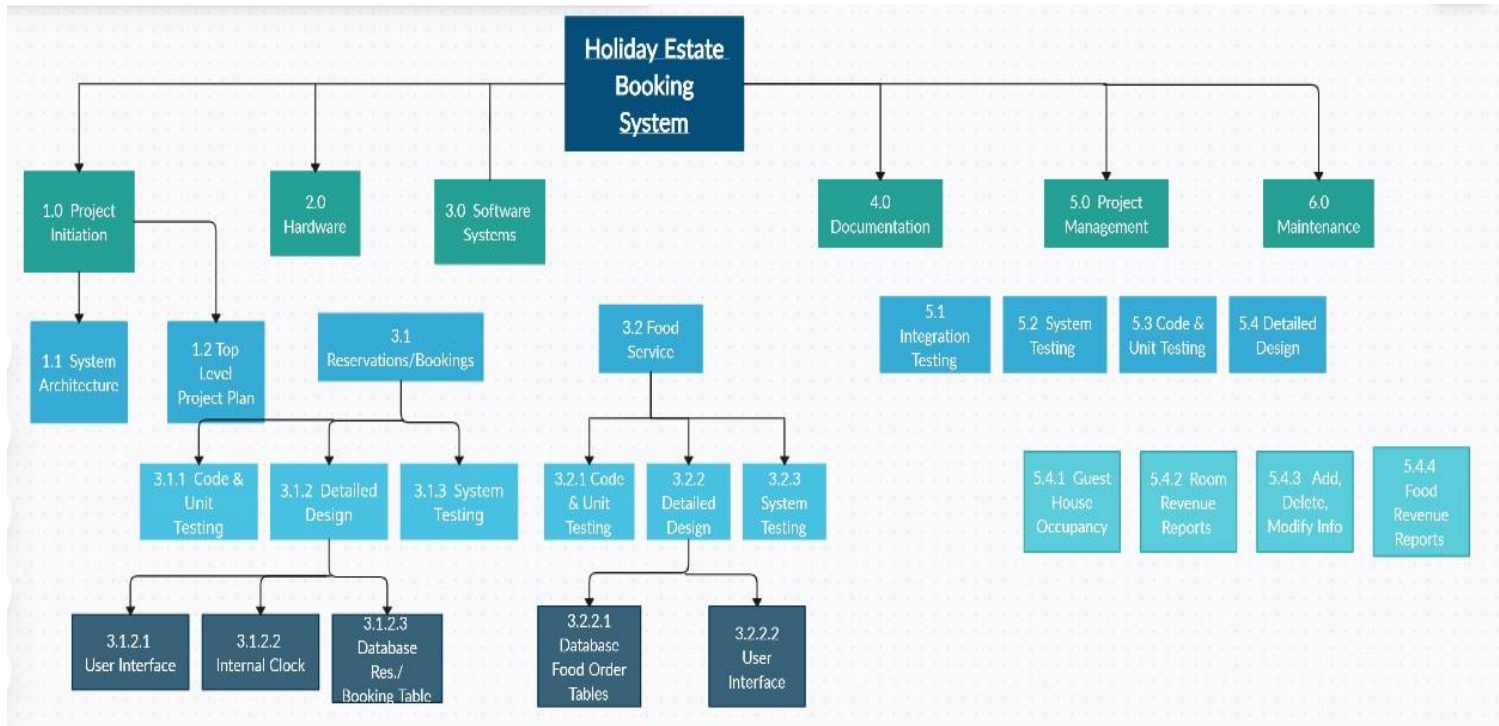
5.4.1 Guest House Occupancy Reports

5.4.2 Room Revenue Reports

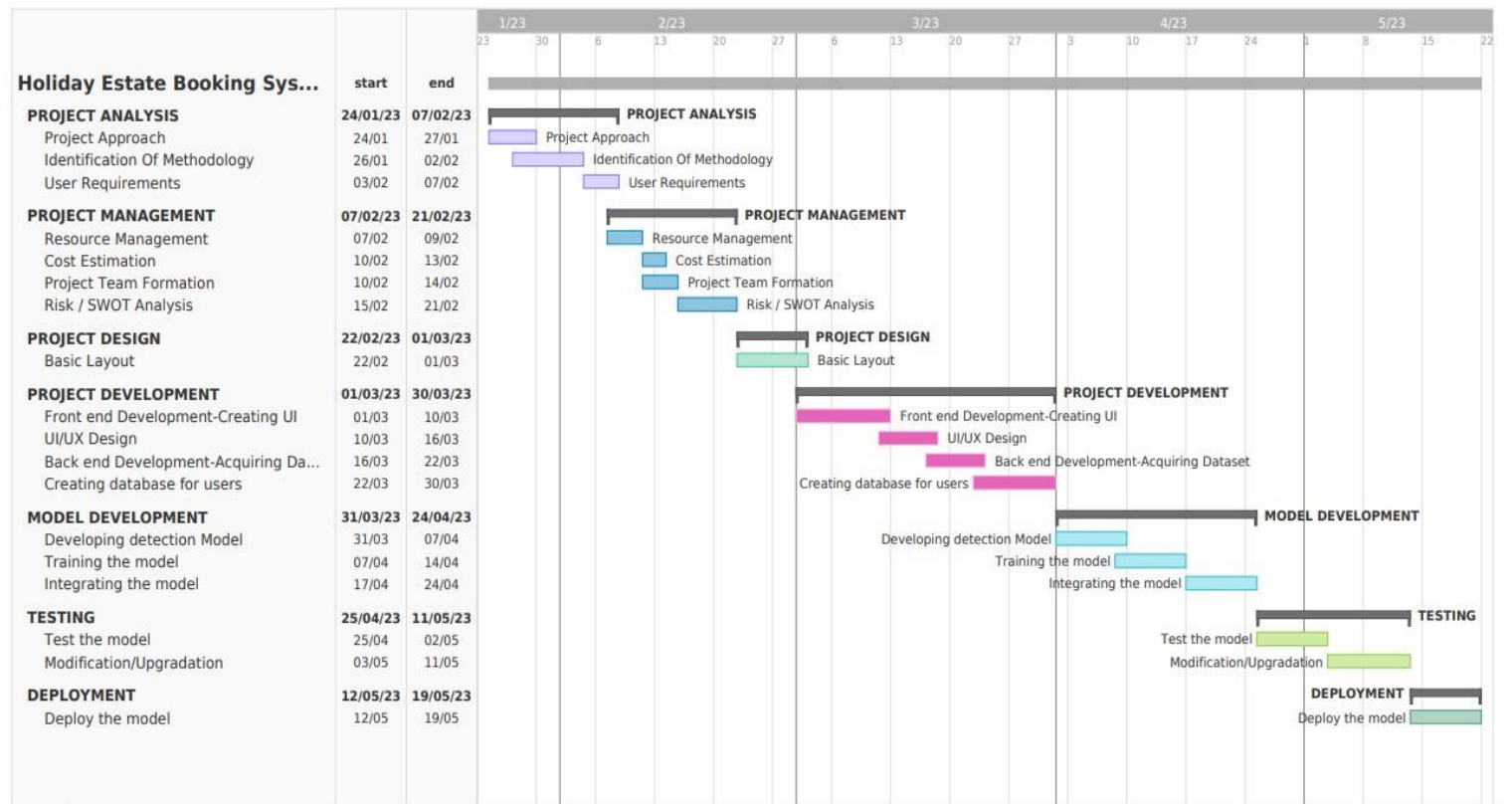
5.4.3 Addition, Deletion, Modification of information

5.4.4 Food Revenue Reports

6.0 Maintenance



TIMELINE – GANTT CHART



RISK ANALYSIS – SWOT & RMMM



<u>Response</u>	<u>Strategy</u>	<u>Examples</u>
<u>Avoid</u>	This is a strategy where the team will take action to remove any kind of risk that can impact the project.	<ul style="list-style-type: none"> • Extending the schedule • Reducing/removing scope • Change the execution strategy
<u>Transfer</u>	This involves transferring the responsibility to a third party in order to reduce responsibility.	<ul style="list-style-type: none"> • Contracting an organization to resolve security breaches.
<u>Mitigate</u>	Risk mitigation is a strategy where the project team takes an action to reduce the probability of the risk occurring.	<ul style="list-style-type: none"> • Increasing testing • Changing suppliers to a more stable one
<u>Accept</u>	Risk acceptance means the team acknowledges the risk its potential impact, but decides not to take any preemptive action to prevent it	<ul style="list-style-type: none"> • Contingency reserve budget • Management schedule float • Event contingency

Result:

Thus, the work breakdown structure with timeline chart and risk table were formulated successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	6
Title of Experiment	Design a System Architecture, Use Case and Class Diagram
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	06-03-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

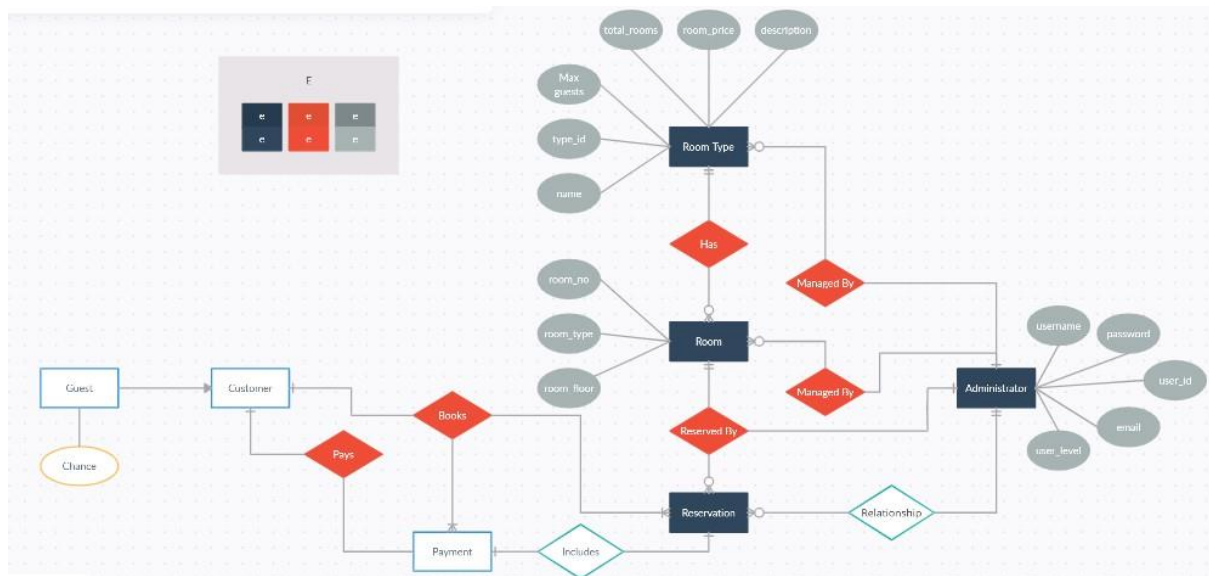
Aim

To Design a System Architecture, Use case and Class Diagram.

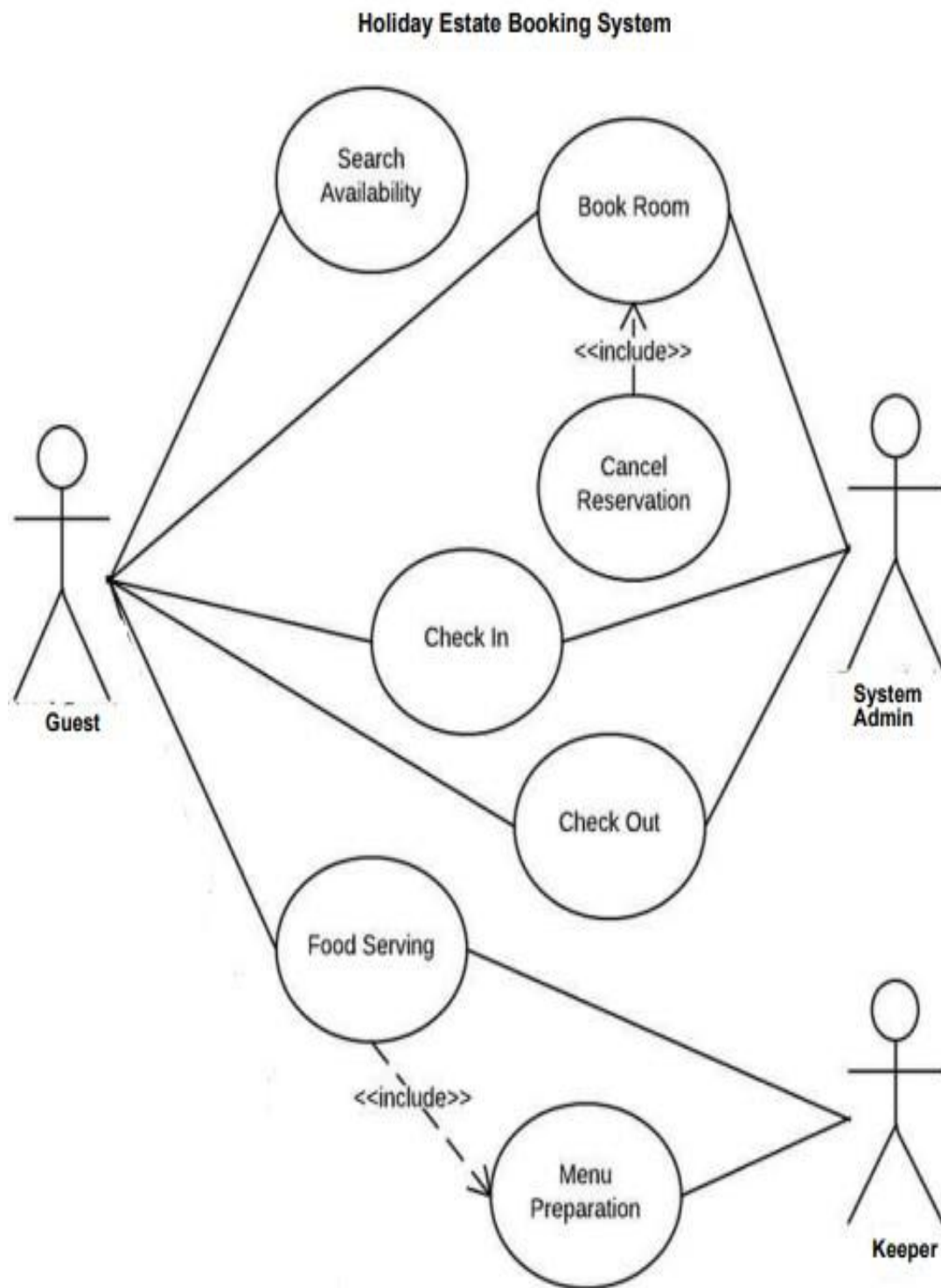
Team Members:

Sl No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

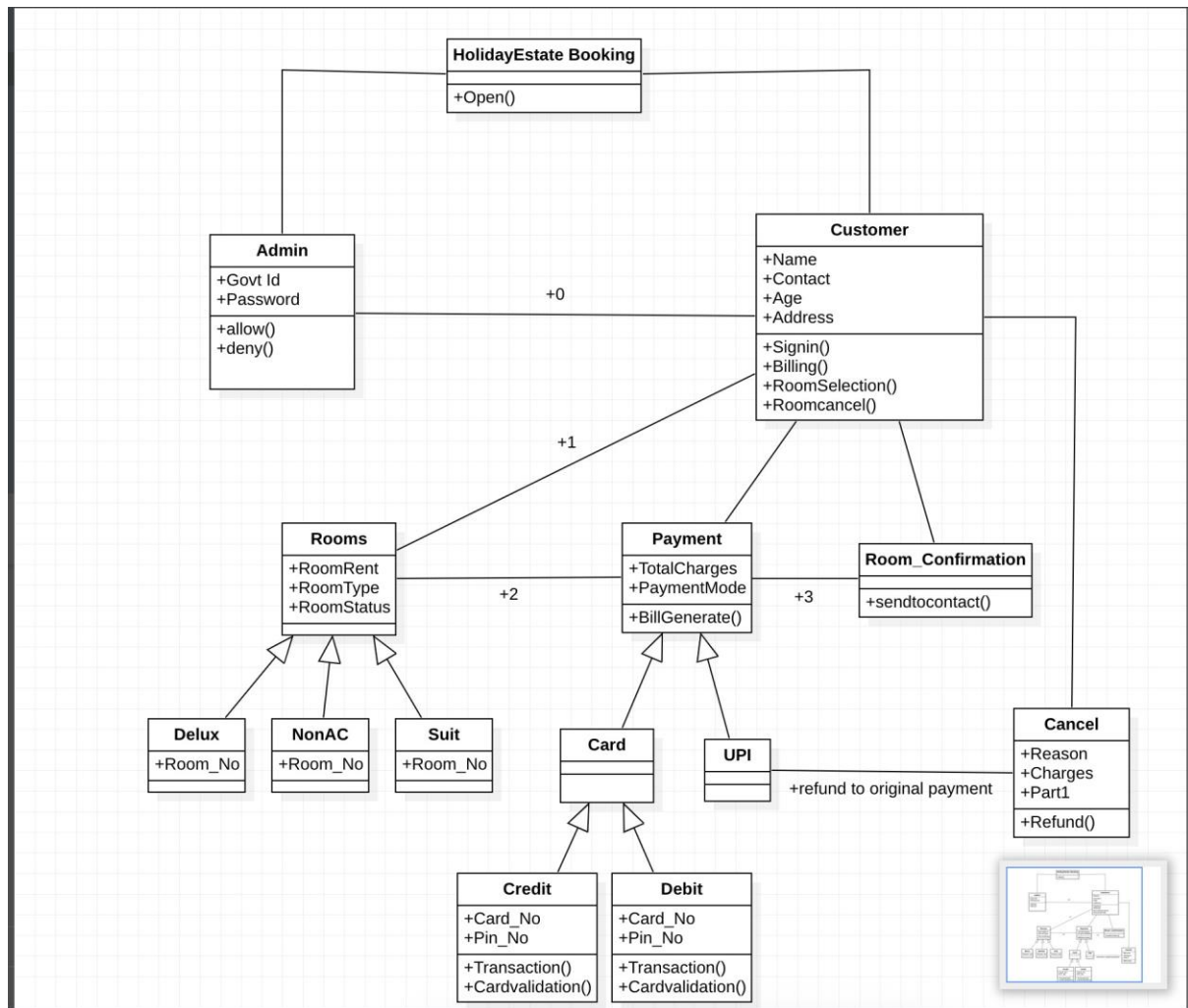
SYSTEM ARCHITECTURE-



USE CASE DIAGRAM-



CLASS DIAGRAM-



Result:

Thus, the system architecture, use case and class diagram created successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	7
Title of Experiment	Design a Entity relationship diagram
Name of the candidate	ANCHITA RAWAT
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	13-03-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim-

To create the Entity Relationship Diagram.

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

ER Diagram, Notation and Example

What is an ER Diagram?

- ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships.
- ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships.
- At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure.

What is the ER Model?

- ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. ER model helps to systematically analyze data requirements to produce a well-designed database.
- ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing your database.

- ER Modeling helps you to analyze data requirements systematically to produce a well-designed database. So, it is considered a best practice to complete ER modeling before implementing your database.

Why use ER Diagrams?

Here, are prime reasons for using the ER Diagram

- Helps you to define terms related to entity relationship modeling
- Provide a preview of how all your tables should connect, what fields are going to be on each table
- Helps to describe entities, attributes, relationships
- ER diagrams are translatable into relational tables which allows you to build databases quickly
- ER diagrams can be used by database designers as a blueprint for implementing data in specific software applications
- The database designer gains a better understanding of the information to be contained in the database with the help of ER diagram
- ERD Diagram allows you to communicate with the logical structure of the database to users

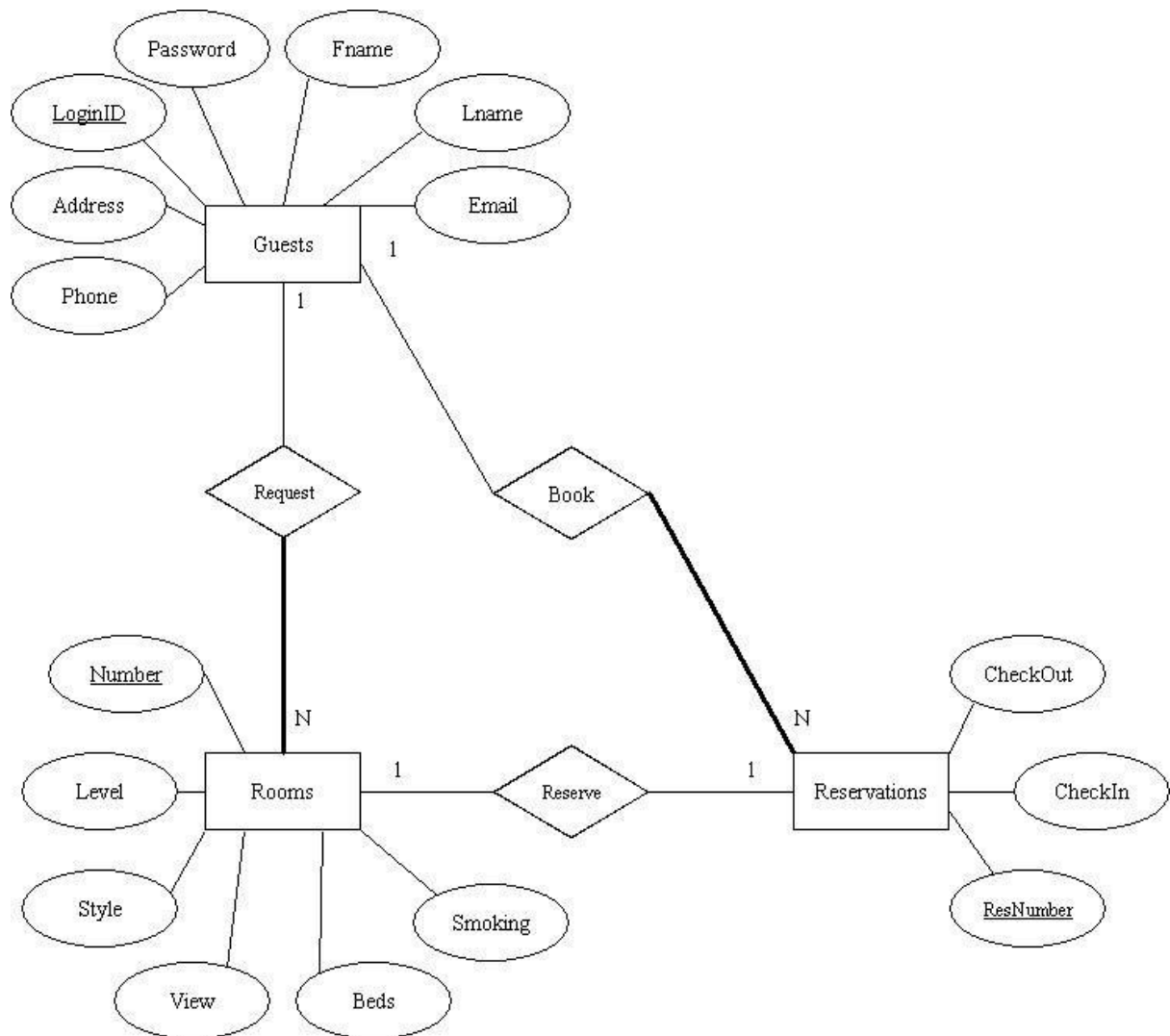
Components of the ER Diagram

This model is based on three basic concepts: Entities, Attributes, Relationships

ER Diagram – Notations

- Rectangles represent entity sets.
- Diamonds represent relationship sets.
- Lines link attributes to entity sets and entity sets to relationship sets.
- Ellipses represent attributes
- Double ellipses represent multivalued attributes.- Dashed ellipses denote derived attributes.
- Underline indicates primary key attributes

ENTITY RELATIONSHIP DIAGRAM FOR
HOLIDAY ESTATE BOOKING SYSTEM



Result-

Thus, the entity relationship diagram was created successfully.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	8
Title of Experiment	Develop a Data Flow Diagram (Process-Up to Level 1)
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	26-03-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim-

To develop the data flow diagram up to level 1 for the HOLIDAY ESTATE BOOKING SYSTEM. **Team Members:**

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Data Flow Diagram-

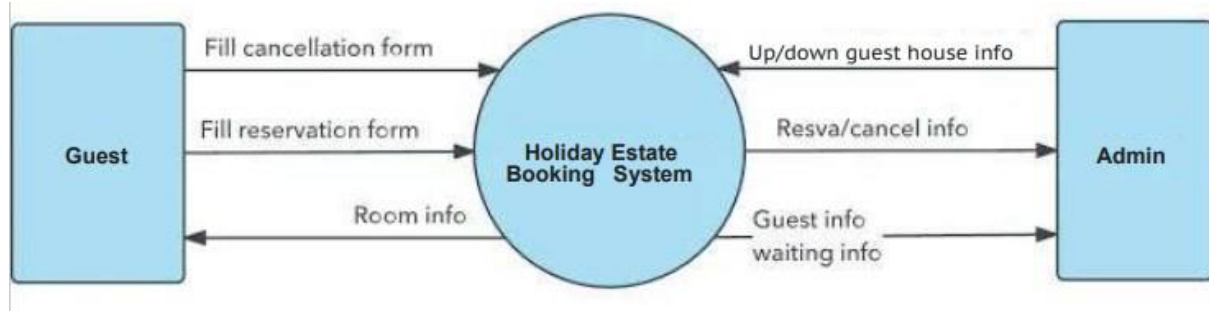
The DFD takes an input-process-output view of a system. That is, data objects flow into the software, are transformed by processing elements, and resultant data objects flow out of the software. Data objects are represented by labeled arrows, and transformations are represented by circles (also called bubbles). The DFD is presented in a hierarchical fashion. That is, the first data flow model (sometimes called a level 0 DFD or context diagram) represents the system as a whole. Subsequent data flow diagrams refine the context diagram, providing increasing detail with each subsequent level.

The data flow diagram enables you to develop models of the information domain and functional domain. As the DFD is refined into greater levels of detail, you perform an implicit functional decomposition of the system. At the same time, the DFD refinement results in a corresponding refinement of data as it moves through the processes that embody the application.

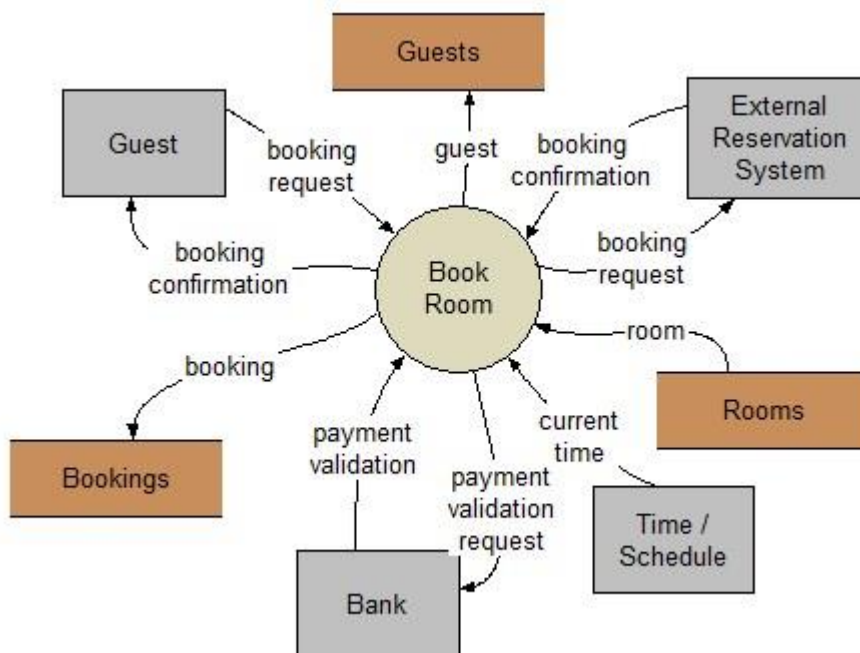
A few simple guidelines can aid immeasurably during the derivation of a data flow diagram:

- (1) Level 0 data flow diagram should depict the software/system as a single bubble;
- (2) Primary input and output should be carefully noted;
- (3) Refinement should begin by isolating candidate processes, data objects, and data stores to be represented at the next level;
- (4) All arrows and bubbles should be labeled with meaningful names;
- (5) Information flow continuity must be maintained from level to level and
- (6) One bubble at a time should be refined. There is a natural tendency to overcomplicate the data flow diagram. This occurs when you attempt to show too much detail too early or represent procedural aspects of the software in lieu of information flow.

DFD Level 0-



DFD Level 1-



Result:

Thus, the data flow diagrams have been created for the Holiday Estate Booking System.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	9
Title of Experiment	Design a Sequence and Collaboration Diagram
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	24-04-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

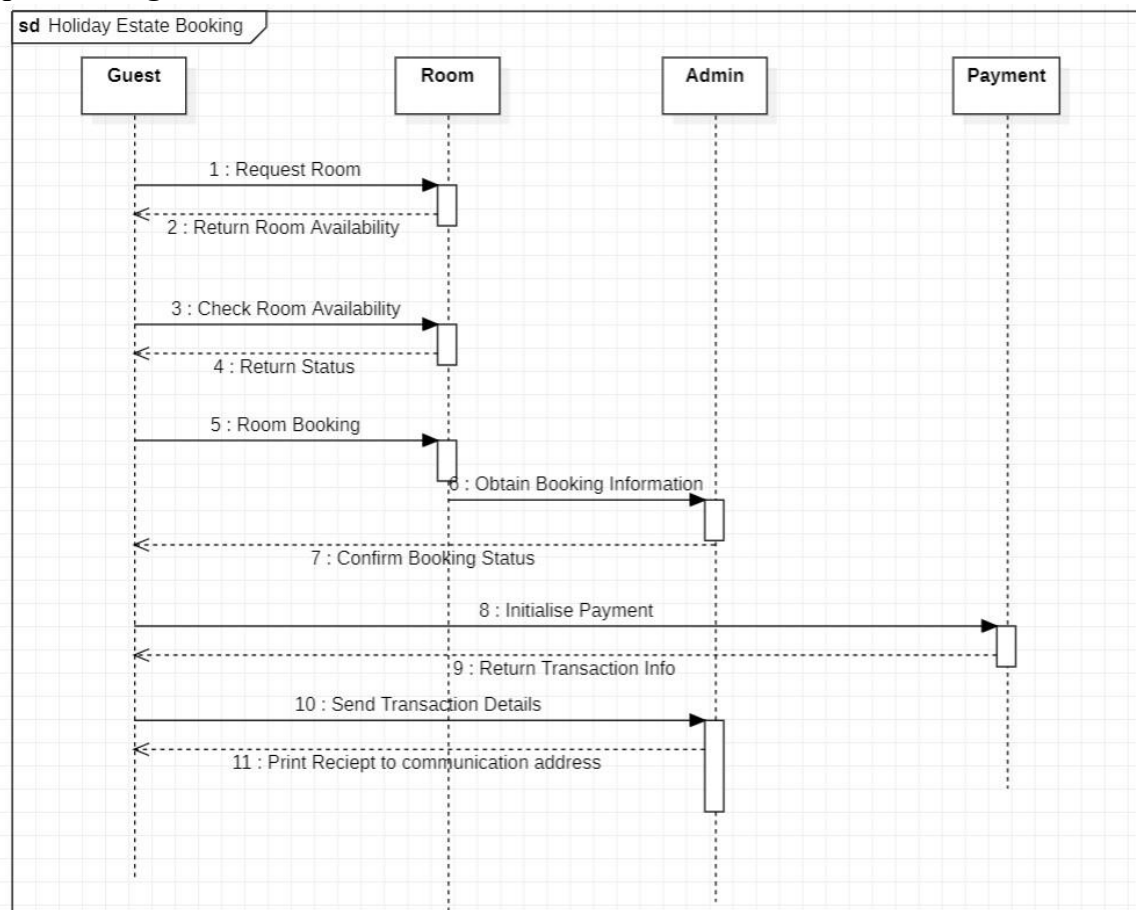
Aim-

To create the sequence and collaboration diagram for the Holiday Estate Booking System.

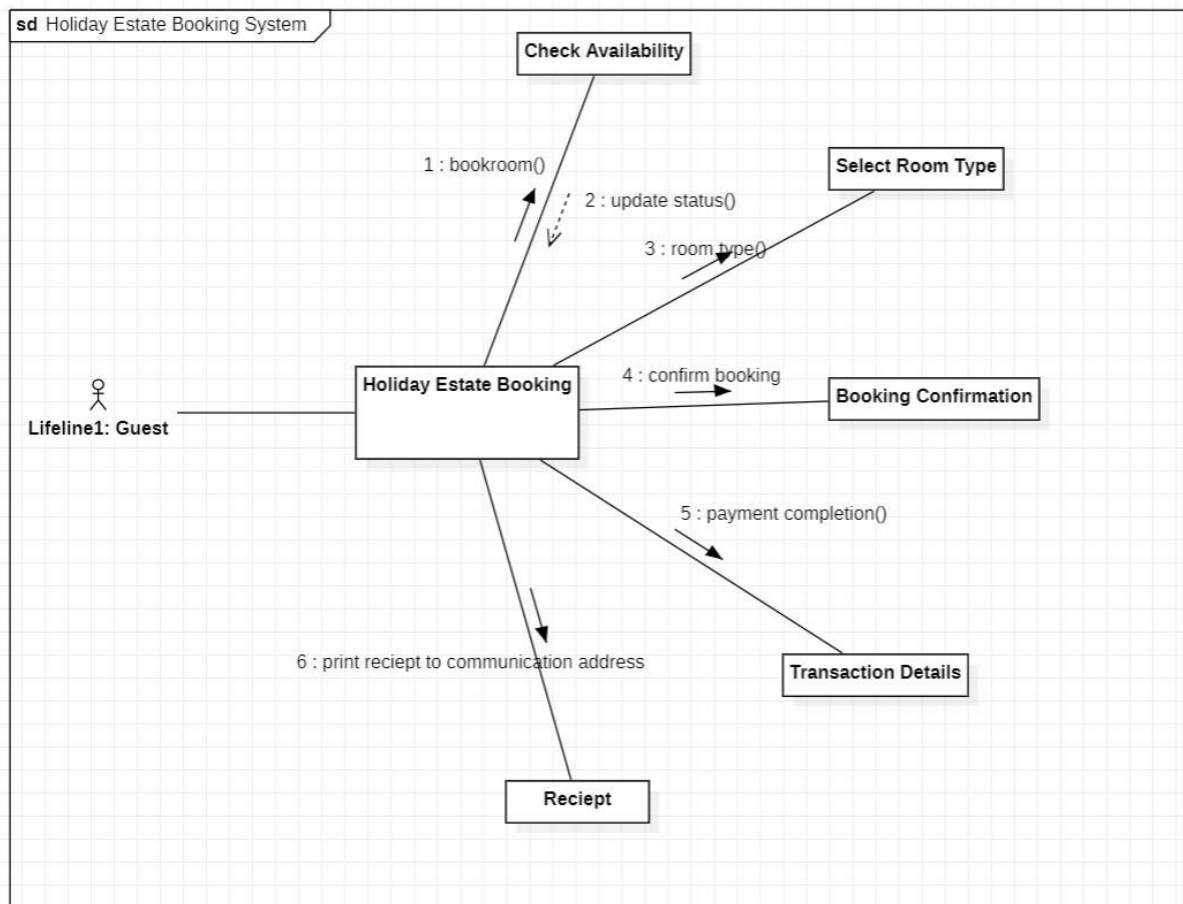
Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep/Member
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Sequence Diagram-



Collaboration Diagram-



Result-

Thus, the sequence and collaboration diagrams were created for the Holiday Estate Booking System.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	10
Title of Experiment	Develop a Testing Framework/User Interface
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	24-04-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim-

To develop the testing framework and/or user interface framework for the Holiday Estate Booking System.

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep/Member
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Executive Summary

Scope: The scope of testing for the holiday estate booking system should cover all the functionalities of the system. This includes testing of the user interface, functionality, usability, performance, security, and compatibility.

Objective: The main objective of testing the holiday estate booking system is to ensure that the system is reliable, user-friendly, and provides accurate results. The system should also be secure and perform well under different scenarios.

Approach: The approach to test the holiday estate booking system should be a combination of manual and automated testing. The following are the steps involved in testing the system:

1. Requirement Analysis: Reviewing the requirements and design documents to ensure that they are complete and accurate.
2. Test Planning: Creating a comprehensive test plan that includes the testing scope, test objectives, test scenarios, test cases, test data, and the expected results.
3. Test Environment Setup: Setting up the test environment that includes the hardware, software, and network configurations required to test the system.
4. Test Execution: Running the test cases to verify the system's functionality, performance, usability, and security.
5. Defect Reporting: Reporting any defects found during the testing phase using a defect tracking tool.

6. Defect Management: Managing the defects by assigning severity and priority levels, retesting the defects after they are fixed, and verifying the fixes.
7. Test Closure: Analyzing the test results, documenting the test findings, and providing a test report to the stakeholders.

Functional Requirements:

User registration and login: The system should allow users to create an account and log in to the system to access the booking features.

Booking management: The system should allow users to make reservations, manage bookings, and cancel reservations if necessary.

Payment processing: The system should allow users to pay for their bookings online securely.

Non-Functional Requirements:

Performance: The system should be able to handle a high volume of users and transactions without experiencing performance issues or slowdowns.

Availability: The system should be available 24/7, with minimal downtime or maintenance windows.

Scalability: The system should be able to scale up or down as needed to accommodate changes in demand.

Types of Testing, Methodology, Tools

Category	Methodology	Tools Required
User registration and login	Manual	Software
Booking management	Manual	Software
Performance	Manual	Software
Scalability	Agile	Software

Result:

Thus, the testing framework/user interface framework has been created for the Holiday Estate Booking System.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	11
Title of Experiment	Test Cases
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASATAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	24-04-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim

To develop the test cases manual for the <project name>

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep
2	RA2111027010143	SHRADDHA SRIVASATAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remars
1	verify registration and login	a new user or an existing user can sign up/login with their valid credentials.	1. Go to home page 2. Click on the menu option at the upper right corner. 3. select/click on login or sign up button accordingly.	User should be directed to the login page	User is able to proceed further in the next section after providing the correct details.	pass	success

2	management of the bookings made	users can view and manage their bookings,including modifying dates,cancellation of their booking or adding any additional services	1. Go to Home page 2.Scroll down through the home page till the respective option/section gets encountered	user should be directed to the respective page as allocated	user is able to chose or modify from the given list of choices as per his/her choice	pass	success
3	User Support	users can connect through customer care number or can even raise their query in the "Have a question section"	1.Go to home page 2.Scroll down through the home page 3.At the last there will be a FAQs section/customer care contact	users will be allowed to raise their query either way they want	users are able to comment down their queries in the FAQ section provided	pass	success

Non-Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
1	Usability	The system is easy to use and understand	ask opinion from user	the tester has no problem in inferring the usage of various options	as expected	pass	success
2	Efficiency	testing the response time of the system upon detecting an anomaly	ask opinion from user	Response time has to be less than 5 seconds	as expected	pass	success
3	Compatibility	system functions correctly and displays properly on different web browsers	ask opinion from user	runs successfully as on the browser opted by the user	as expected	pass	success

Result:

Thus, the test case manual has been created for the Holiday Estate Booking System.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	12
Title of Experiment	Manual Test Case Reporting
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Number	RA2111027010145
Date of Experiment	20-04-23

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim

To prepare the manual test case report for the Holiday Estate Booking System.

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep/Member
2	RA2111027010143	SHRADDHA SRIVASTAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

Category	Progress Against Plan	Status
Functional Testing	Green	Completed
Non-Functional Testing	Amber	In-progress
TestCase	TestCaseCoveragestatus	
Verify that homepage loads correctly	Completed	
Verify that user Registration and login functionality working	Inprogress	
Check the Navigation bar functionality working	Completed	
Ensure the accessibility of categorized rooms is proper	Completed	
Ensure that the proper description and illustration of the rooms in the estate is imparted	Completed	
Test the booking menu functionality	Completed	
Test the booking confirmation page loads and function Correctly	Completed	

Result:

Thus, the test case report has been created for the Holiday Estate Booking System..



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13
Title of Experiment	Provide the details of Architecture Design/Framework/Implementation
Name of the candidate	ANCHITA RAWAT (RA2111027010145)
Team Members	ANCHITA RAWAT (RA2111027010145) SHRADDHA SRIVASTAVA (RA2111027010143) HAREESH REDDY (RA2111027010124)
Register Numbers	RA2111027010145
Date of Experiment	1-05-2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

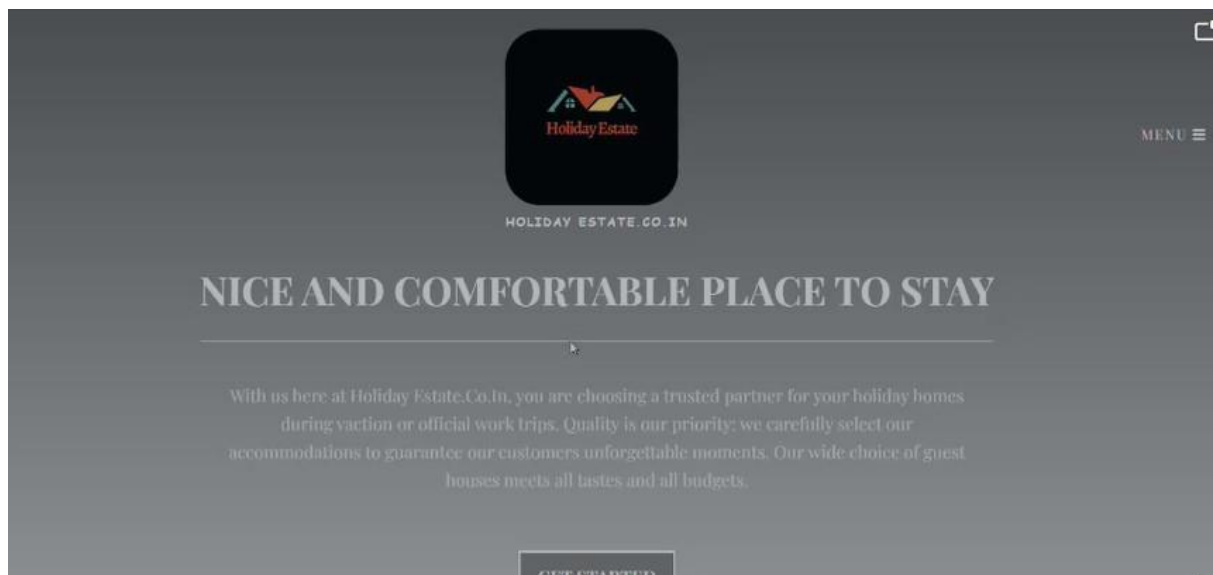
Aim

To provide the details of architectural design/framework/implementation

Team Members:

S No	Register No	Name	Role
1	RA2111027010145	ANCHITA RAWAT	Rep/Member
2	RA2111027010143	SHRADDHA SRIVASATAVA	Member
3	RA2111027010124	HAREESH REDDY	Member

MAIN WINDOW



SERVICES



Food Services

When planning a holiday getaway or a work trip at our guest house, an essential factor high on a traveler's priority list is food. Compared to hotels with in-house restaurants or bistros, what you get in our guest houses is a working kitchen facilitated by a chef with the help of a small team of guest house personnel — all working efficiently to make every meal, and your entire stay, as trouble-free and effortless as possible!

[KNOW MORE](#)

Speedy Check-ins out Check-outs

There is no trouble with check-ins and check-outs as you can easily do both using the system once you arrive. The automated process is not just speedy, but also allows guests to check-in/check-out through our website in their smartphones. It's simple, accurate, efficient and safe!

[KNOW MORE](#)

Personalized Service

Holiday homes offer a range of personalised services to make your stay more comfortable and enjoyable. These services can include housekeeping, laundry, concierge services, and even private chefs. It focuses more on one-on-one services with the keeper who will be on standby for you anytime, making your stay comforting and relaxing!

[KNOW MORE](#)

Cancellation/Refund

This system provides for the cancellation of the booked holiday estate in case of any change of plans. All cancellation of booking will be made through online system & admissible amount will be refunded automatically in the account from which payment was made!

[KNOW MORE](#)

Check In Date:

dd-mm-yyyy

Check Out Date:

dd-mm-yyyy

Adults:

1

Children:

1

Rooms:

1

Room Type:

Double Room

BOOK NOW

OUR ROOMS



Single Room

- Single Occupancy.
- Free WiFi.
- Direct-line telephone in the room.

A room with the facility of single bed. It is meant for single occupancy. It has an attached bathroom, a small dressing table, a small bedside table, and a small writing table. Sometimes it has a single chair too.

Per Night

BOOK NOW

Double Room

- Double Bed/Cots Available.
- Mini Fridge.
- Laundry Facilities.

In double rooms with double occupancy rates, the shape is generally elongated and feature furniture, furnishing, and equipment for a short-term stay. These rooms have beds, baths, storage, work area, mini-bar, and usually do not contain a kitchen. Per Night

BOOK NOW



Deluxe Suite

- Bedroom 1: 1 large double bed
- Bedroom 2: 2 single beds
- Living room: 1 sofa bed
- Kitchen: refrigerator, microwave, coffee machine, kettle, cooking utensils, cookers, table service
- Room facilities: Furnished balcony, 1 flat screen TV in each room, 1 flat screen TV



We Loved it

A beautiful place to stay.
Very comfortable and
welcoming hosts. Hosts will
listen to all ur needs and
will even suggest you with
some must visit places
nearby. Highly recommended.

customer image

Twinkle Taneja, Delhi



Comfortable Living

The rooms are clean, well
maintained and cozy. Great
cook who makes brilliant
and tasty Indian food.

customer image



Shaurya Khanna, Lucknow



Nice Place

Offering an unmatched
flavour of hospitality with
world class elegance.

customer image

Yuvraj Luthra, Amritsar

About Us

The Holiday Estate Booking System administers the booking of Holiday Homes and Touring Officers' Hostels (TOH) of employees working in the public sector trying to avail the services from the company. All the Holiday Homes and Touring Officers' Hostels have various types of rooms to cater to the different requirements of guests. All the bookings, payments, cancellation and other required provisions of Holiday Homes and TOH are done online through this system. The bookings are done on 'first-come, first-serve' basis subject to fulfilment of prescribed eligibility, time limit and payment of booking charges, etc.



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Have A Question

SRM Street, Chengalpattu, Chennai,
Tamil Nadu, India - 603203

+91 9999888866

info@holidayestate.com

LOGIN WINDOW



SIGN UP WINDOW



Result: Thus, the details of architectural design/framework/implementation along with the screenshots were provided.

CONCLUSION-

In conclusion, the development and implementation of the holiday estate booking system have proven to be a significant advancement in streamlining and enhancing the booking process for holiday estates for government employees and touring officers. The system has successfully addressed various challenges and provided numerous benefits to both the holiday estate management and the customers.

Firstly, the holiday estate booking system has greatly improved the efficiency and accuracy of the booking process. Through its user-friendly interface and intuitive features, customers can easily search for available holiday estates, view detailed information, and make reservations in real-time. This has reduced the time and effort required to make a booking, resulting in increased customer satisfaction and a more streamlined workflow for the estate management team.

Moreover, the holiday estate booking system has improved the overall customer experience. With features like online payment options, customer reviews, and interactive property galleries, customers can make informed decisions and have a seamless booking experience.

Furthermore, the system offers scalability and adaptability to meet the evolving needs of the holiday home industry. It can accommodate multiple estates and booking types, allowing for future expansion and growth.

In conclusion, the holiday estate booking system has revolutionized the way holiday estates for government employees are booked and managed. It has brought convenience, efficiency, and improved customer satisfaction to both the estate management and customers. The system's robust features, scalability, and adaptability make it a valuable tool for the holiday estate industry, enabling businesses to thrive in a competitive market. Overall, the implementation of the holiday estate booking system has been a resounding success, and it will continue to play a vital role in the future of holiday estate management and customer experiences.

REFERENCES-

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<https://gservants.com/how-to-book-holiday-home-online/>

<https://hindimaterials.com/holiday-homes-online-booking/>

APPENDIX (CODE)-

MAIN WINDOW

HTML<!DOCTYPE

html>

<html>

<head>

<meta charset="utf-8">

<title>Holiday Estate</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="main.css">

<script src="https://kit.fontawesome.com/dbed6b6114.js" crossorigin="anonymous"></script>

<link rel="icon" href="images/logo.png" type="image/png">

</head>

<body>

<!-- header -->

<header class="header" id="header">

<div class="head-top">

<div class="site-name">

HOLIDAY ESTATE.CO.IN

</div>

<div class="site-nav">

MENU <i class="fas fa-bars"></i>

</div>

</div>

<div class="head-bottom flex">

<h2>NICE AND COMFORTABLE PLACE TO STAY</h2>

<p>With us here at Holiday Estate.Co.In, you are choosing a trusted partner for your holiday homes during vacation or official work trips. Quality is our priority: we carefully select our accommodations to guarantee our customers unforgettable moments. Our wide choice of guest houses meets all tastes and all budgets.</p>

<button type="button" class="head-btn">GET STARTED</button>

</div>

</header>

<!-- end of header -->

<!-- side navbar -->

<div class="sidenav" id="sidenav">

<i class="fas fa-times"></i>


```

<ul class = "navbar">
  <li><a href = "#header">home</a></li>
  <li><a href = "#services">services</a></li>
  <li><a href = "#rooms">rooms</a></li>
  <li><a href = "#customers">customers</a></li>
</ul>
<button class = "btn sign-up">sign up</button>
<button class = "btn log-in">log in</button>
</div>
<!-- end of side navbar -->

<!-- fullscreen modal -->
<div id = "modal"></div>
<!-- end of fullscreen modal -->

<!-- body content -->
<section class = "services sec-width" id = "services">
  <div class = "title">
    <h2>services</h2>
  </div>
  <div class = "services-container">
    <!-- single service -->
    <article class = "service">
      <div class = "service-icon">
        <span>
          <i class = "fas fa-utensils"></i>
        </span>
      </div>
      <div class = "service-content">
        <h2>Food Services</h2>
        <p>When planning a holiday getaway or a work trip at our guest house, an essential
factor high on a traveler's priority list is food. Compared to hotels with in-house restaurants or bistros,
what you get in our guest houses is a working kitchen facilitated by a chef with the help of a small team
of guest house personnel — all working efficiently to make every meal, and your entire stay, as trouble-
free and effortless as possible!</p>
        <button type = "button" class = "btn">Know More</button>
      </div>
    </article>
    <!-- end of single service -->
    <!-- single service -->
    <article class = "service">
      <div class = "service-icon">
        <span>
          <i class = "fas fa-swimming-pool"></i>
        </span>
      </div>
      <div class = "service-content">
        <h2>Speedy Check-ins out Check-outs</h2>

```

<p>There is no trouble with check- ins and check-outs as you can easily do both using the system once you arrive.

The automated process is not just speedy, but also allows guests to check-in/check-out through our website in their smartphones. It's simple, accurate, efficient and safe!</p>

<button type = "button" class = "btn">Know More</button>

</div>

</article>

<!-- end of single service -->

<!-- single service -->

<article class = "service">

<div class = "service-icon">

<i class = "fas fa-broom"></i>

</div>

<div class = "service-content">

<h2>Personalized Service</h2>

<p>Holiday homes offer a range of personalised services to make your stay more comfortable and enjoyable. These services can include housekeeping, laundry, concierge services, and even private chefs.It focuses more on one -on- one services with the keeper who will be on

standby for you anytime, making your stay comforting and relaxing!</p>

<button type = "button" class = "btn">Know More</button>

</div>

</article>

<!-- end of single service -->

<!-- single service -->

<article class = "service">

<div class = "service-icon">

<i class = "fas fa-door-closed"></i>

</div>

<div class = "service-content">

<h2>Cancellation/Refund</h2>

<p>This system provides for the cancellation of the booked holiday estate in case of any change of plans.

All cancellation of booking will be made through online system & admissible amount will be refunded automatically in the account from which payment was made!</p>

<button type = "button" class = "btn">Know More</button>

</div>

</article>

<!-- end of single service -->

</div>

</section>

<div class = "book">

```

<form class = "book-form">
  <div class = "form-item">
    <label for = "checkin-date">Check In Date: </label>
    <input type = "date" id = "chekin-date">
  </div>
  <div class = "form-item">
    <label for = "checkout-date">Check Out Date: </label>
    <input type = "date" id = "chekout-date">
  </div>
  <div class = "form-item">
    <label for = "adult">Adults: </label>
    <input type = "number" min = "1" value = "1" id = "adult">
  </div>
  <div class = "form-item">
    <label for = "children">Children: </label>
    <input type = "number" min = "1" value = "1" id = "children">
  </div>
  <div class = "form-item">
    <label for = "rooms">Rooms: </label>
    <input type = "number" min = "1" value = "1" id = "rooms">
  </div>
  <div class = "form-item">
    <input type = "submit" class = "btn" value = "Book Now">
  </div>
</form>
</div>

```

```

<section class = "rooms sec-width" id = "rooms">
  <div class = "title">
    <h2>Our Rooms</h2>
  </div>
  <div class = "rooms-container">
    <!-- single room -->
    <article class = "room">
      <div class = "room-image">
        <img src = "images/img1.jpg" alt = "room image">
      </div>
      <div class = "room-text">
        <h3>Single Room</h3>
        <ul>
          <li>
            <i class = "fas fa-arrow-alt-circle-right"></i>
            Single Occupancy.
          </li>
          <li>
            <i class = "fas fa-arrow-alt-circle-right"></i>
            Free WiFi.
          </li>

```

```

</li>
  <i class = "fas fa-arrow-alt-circle-right"></i> Direct-
    line telephone in the room.
</li>
</ul>

```

<p> A room with the facility of single bed. It is meant for single occupancy. It has an attached bathroom, a small dressing table, a small bedside table, and a small writing table. Sometimes it has a single chair too.</p>

```

  <p class = "rate">
    </span> Per Night
  </p>
  <button type = "button" class = "btn">book now</button>
</div>
</article>

```

```

<!-- end of single room -->

```

```

<!-- single room -->

```

```

<article class = "room">
  <div class = "room-image">
    <img src = "images/img2.jpg" alt = "room image">
  </div>
  <div class = "room-text">
    <h3>Double Room</h3>
    <ul>
      <li>
        <i class = "fas fa-arrow-alt-circle-right"></i>
        Double Bed/Cots Available.
      </li>
      <li>
        <i class = "fas fa-arrow-alt-circle-right"></i>
        Mini Fridge.
      </li>
      <li>
        <i class = "fas fa-arrow-alt-circle-right"></i>
        Laundry Facilities.
      </li>
    </ul>
  </div>

```

<p>In double rooms with double occupancy rates, the shape is generally elongated and feature furniture, furnishing, and equipment for a short-term stay. These rooms have beds, baths, storage, work area, mini-bar, and usually do not contain a kitchen.</p>

```

  <p class = "rate">
    </span> Per Night
  </p>
  <button type = "button" class = "btn">book now</button>
</div>
</article>
<!-- end of single room -->

```

```

<!-- single room -->
<article class = "room">
  <div class = "room-image">
    <img src = "images/img3.jpg" alt = "room image">
  </div>
  <div class = "room-text">
    <h3>Deluxe Suite</h3>
    <ul>
      <li>
        <i class = "fas fa-arrow-alt-circle-right"></i>
        • Bedroom 1: 1 large double bed
        <p>
          • Bedroom 2: 2 single beds<p> <p>
          • Living room: 1 sofa bed <p>
            </li>
            <li>
              <i class = "fas fa-arrow-alt-circle-right"></i>
              Kitchen: refrigerator, microwave, coffee machine, kettle, cooking utensils, cookers,
table service
            </li>
            <li>
              <i class = "fas fa-arrow-alt-circle-right"></i>
              Room facilities: Furnished balcony, 1 flat screen TV in each room, 1 flat screen TV in
the living room
            </li>
          </ul>
          <p>They are available in Single Deluxe and Double Deluxe variants. Deluxe room is well
furnished. Some amenities are attached bathroom, a dressing table, a bedside table, a small writing
table, a TV, and a small fridge. The floor is covered with carpet and most suitable for small
families.</p>

          <p class = "rate">
            </span> Per Night
          </p>
          <button type = "button" class = "btn">book now</button>
        </div>
      </article>
    <!-- end of single room -->
  </div>
</section>

<section class = "customers" id = "customers">
  <div class = "sec-width">
    <div class = "title">
      <h2>customers</h2>

```

```

</div>
<div class = "customers-container">
  <!-- single customer -->
  <div class = "customer">
    <div class = "rating">
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "far fa-star"></i></span>
    </div>
    <h3>We Loved it</h3>
    <p>A beautiful place to stay. Very comfortable and welcoming hosts. Hosts will listen to
all ur needs and will even suggest you with some must visit places nearby. Highly recommended.</p>
    <img src = "images/cus1.jpg" alt = "customer image">
    <span>Twinkle Taneja, Delhi</span>
  </div>
  <!-- end of single customer -->
  <!-- single customer -->
  <div class = "customer">
    <div class = "rating">
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "far fa-star"></i></span>
    </div>
    <h3>Comfortable Living</h3>
    <p>The rooms are clean, well maintained and cozy. Great cook who makes brilliant and
tasty Indian food.
  </p>
    <img src = "images/cus2.jpg" alt = "customer image">
    <span>Shaurya Khanna, Lucknow</span>
  </div>
  <!-- end of single customer -->
  <!-- single customer -->
  <div class = "customer">
    <div class = "rating">
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "fas fa-star"></i></span>
      <span><i class = "far fa-star"></i></span>
    </div>
    <h3>Nice Place</h3>
    <p>Offering an unmatched flavour of hospitality with world class elegance.</p>
    <img src = "images/cus3.jpg" alt = "customer image">
    <span>Yuvraj Luthra, Amritsar</span>
  </div>

```

```
</div>
<!-- end of single customer -->
</div>
</div>
</section>
<!-- end of body content -->
```

```
<!-- footer -->
<footer class = "footer">
  <div class = "footer-container">
    <div>
      <h2>About Us </h2>
      <p>The Holiday Estate Booking System administers the booking of Holiday Homes and Touring Officers' Hostels (TOH) of employees working in the public sector trying to avail the services from the company.
```

All the Holiday Homes and Touring Officers' Hostels have various types of rooms to cater to the different requirements of guests.

All the bookings, payments, cancellation and other required provisions of Holiday Homes and TOH are done online through this system.

The bookings are done on 'first-come, first-serve' basis subject to fulfilment of prescribed eligibility, time limit and payment of booking charges, etc.

```
</p>
```

```
<ul class = "social-icons">
  <li class = "flex">
    <i class = "fa fa-twitter fa-2x"></i>
  </li>
  <li class = "flex">
    <i class = "fa fa-facebook fa-2x"></i>
  </li>
  <li class = "flex">
    <i class = "fa fa-instagram fa-2x"></i>
  </li>
</ul>
</div>
```

```
<div>
  <h2>Useful Links</h2>
  <a href = "#">Blog</a>
  <a href = "#">Rooms</a>
  <a href = "#">Subscription</a>
  <a href = "#">Gift Card</a>
</div>
```

```
<div>
  <h2>Privacy</h2>
  <a href = "#">Career</a>
  <a href = "#">About Us</a>
  <a href = "#">Contact Us</a>
```

```

        <a href = "#">Services</a>
    </div>

    <div>
        <h2>Have A Question</h2>
        <div class = "contact-item">
            <span>
                <i class = "fas fa-map-marker-alt"></i>
            </span>
            <span>
                SRM Street, Chengalpattu, Chennai, Tamil Nadu, India- 603203
            </span>
        </div>
        <div class = "contact-item">
            <span>
                <i class = "fas fa-phone-alt"></i>
            </span>
            <span>
                +91 9999888866
            </span>
        </div>
        <div class = "contact-item">
            <span>
                <i class = "fas fa-envelope"></i>
            </span>
            <span>
                info@holidayestate.com
            </span>
        </div>
    </div>
</div>
</footer>
<!-- end of footer -->

<script src="script.js"></script>
</body>
</html>

```

```

CSS:root{
    --transition: all 0.7s ease;
    --yellow: #f9d342;
    --dark: #292826;
}
*{ box-sizing: border-
    box; padding: 0;
    margin: 0;
    font-family: 'Playfair Display', serif;

```



```

}
html{ scroll-behavior:
    smooth;
}
body{ line-height:
    1.6;
}
.btn{ font-size: 16px; text-
    transform: uppercase;
    font-weight: 600; border:
    none; border-radius: 5px;
    padding: 10px; width:
    140px; display: block;
    margin: 15px auto; cursor:
    pointer;
    transition: var(--transition);
}
.btn:hover{
    opacity: 0.85;
}
.flex{ display: flex; flex-
    direction: column;
    justify-content: center;
    align-items: center;
}
h1, h2, h3, h4, h5, h6{
    padding: 8px 0;
}
img{
    width: 100%;
    display: block;
}
@media(max-width: 500px){
    body{
        font-size: 14px;
    }
}

/* header */
.header{ background: linear-gradient(rgba(0, 0, 0, 0.6), rgba(0, 0, 0, 0.2)), url("images/banner-
    img.jpg")
    center/cover no-repeat;
    min-height: 100vh;
    color: #fff; padding:
    25px; display: flex;
    flex-direction:
    column;
    align-content: stretch;

```

```

}
.head-top{
  display: flex;
  justify-content: space-between; align-
  items: center;
}
.head-top span{ cursor:
  pointer; letter-spacing:
  2px; transition: var(--
  transition);
}
.head-top span:hover{
  color: var(--yellow);
}
.head-bottom{ flex:
  1; text-align:
  center; width:
  80vw;
  margin: 0 auto;
}
.head-bottom h2{
  padding: 22px 0; font-
  size: 45px;
  border-bottom: 1px solid #fff;
}
.head-bottom p{
  opacity: 0.7; font-
  size: 20px; margin:
  45px auto;
  width: 60vw;
}
.head-btn{ margin: 20px 0; font-
  size: 20px; font-weight: bold;
  border: 3px solid #fff;
  background: transparent;
  padding: 13px 20px;
  background: rgba(0, 0, 0, 0.3);
  color: #fff; cursor: pointer;
  transition: var(--transition);
}
.head-btn:hover{
  background: transparent;
}
@media(max-width: 500px){
  .head-btn{ font-
    size: 17px;
  }
}

```

```

.head-bottom h2{ font-
    size: 28px;
}
.head-bottom p{ font-
    size: 17px;
    margin: 20px auto;
}
}

/* side nav */
.sidenav{ background:
    var(--dark); color: #fff;
    position: fixed; top: 0;
    bottom: 0; right: -100%;
    width: 300px; padding:
    20px;
    transition: var(--transition);
    z-index: 10;
}

/*****/
.sidenav.show{
    right: 0;
}
/*****/
.cancel-btn{
    position: absolute;
    right: 25px; font-
    size: 22px; cursor:
    pointer;
    transition: var(--transition);
}
.cancel-btn:hover{
    opacity: 0.7;
}
.navbar{ margin-
    top: 50px;
    list-style: none;
    padding: 12px;
}
.navbar li a{ color: #fff; text-
    transform: capitalize;
    text-decoration: none;
    padding: 15px 0; display:
    block;
    border-bottom: 0.5px solid rgba(249, 211, 66, 0.3);
    opacity: 0.8; letter-
    spacing: 1.5px;
    transition: var(--transition);
}

```

```

}
.navbar li a: hover{ padding-
    left: 12px;
}
.sign-up, .log-in{
    background: var(--yellow);
    color: #fff;
}
@media(max-width: 400px){
    .sidenav{ width:
        100vw;
    }
}

/** title */
.title{
    text-transform: uppercase; letter-
    spacing: 3px; font-size: 30px; color:
    var(--yellow); border-bottom: 5px
    solid var(--dark); width: 235px;
    margin: 15px 0;
}

.sec-width{
    width: 85vw;
    margin: 0
    auto !important
    ;
}

/* service */
.services{
    margin: 40px 0;
}
.service{
    display: flex;
    margin: 30px 0;
}
.service-icon{ flex:
    30%; align-self:
    flex-start; font-size:
    48px;
    color: #252525;
}
.service-content{ padding-
    left: 20px;
}
.service-content h2{
    opacity: 0.7;

```

```

}
.service-content button{
  margin-left: 0; margin-
  right: 0; background: var(--
  yellow);
  color: #fff;
}
@media(min-width: 992px){
  .services-container{
    display: grid;
    grid-template-columns: repeat(2, 1fr); grid-column-
    gap: 30px;
  }
  .title h2{ font-size:
    10px!important;
  }
}
}
@media(max-width: 500px){
  .title h2{ font-
    size: 24px;
  }
}

/* booking form */
.book{ background: linear-gradient(rgba(0, 0, 0, 0.85), rgba(0, 0, 0, 0.85)), url("images/banner-
img.jpg")
center/cover no-repeat;
  color: #fff; padding:
  40px 60px;
}
.book-form{
  display: grid;
}
.form-item{ display: flex;
  flex-direction: column;
  justify-content: center;
}
.book-form input[type = "submit"]{
  margin: 18px 0 0 0;
  background: var(--dark);
  color: #fff;
  border: 1px solid #fff;
}
.book-form label, .book-form input{
  width: 100%;
}

```

```

.book-form label{ font-
  weight: 600; word-spacing:
  5px;
  padding-bottom: 8px;
}
.book-form input:not(.btn){
  margin: 4px 0 16px 0;
  padding: 12px 15px; border-
  radius: 5px; font-size: 17px;
  border: none;
}
.book-form input:focus{
  outline: 0;
  box-shadow: 0 0 7px rgba(0, 0, 0, 0.4);
}
@media(min-width: 768px){
  .book-form{ grid-template-columns:
    repeat(2, 1fr); grid-gap: 24px;
  }
}
@media(min-width: 1170px){
  .book-form{ grid-template-columns:
    repeat(3, 1fr);
  }
}
@media(min-width: 1370px){
  .book-form{ grid-template-columns: 2fr 2fr 1fr
    1fr 1fr 2fr;
  }
  .book{ height:
    40vh;
    display: grid;
  }
}
@media(max-width: 500px){
  .book{ padding-left:
    20px;
    padding-right: 20px;
  }
}

/* room */

.rooms{ margin:
  40px 0;
}

```

```
.room{ margin: 45px 0;
padding-bottom: 25px;
background: var(--dark);
color: #fff;
}
.room-text{ padding:
5px 20px;
}
.room-text h3{ font-
size: 24px;
}
.room-text ul{ list-style-
type: none;
margin: 15px 0;
}
.room-text ul li{
padding: 7px 0;
}
.room-text ul li i{
color: var(--yellow);
margin-right: 10px;
}
.rate{ opacity:
0.8;
}
.rate span{ font-
size: 40px; font-
weight: 900;
color: var(--yellow);
}
.room-image{
overflow: hidden;
}
.room-image img{
transition: var(--transition);
}
.room-image:hover img{
transform: scale(1.1);
}
@media (min-width: 900px){
.rooms-container{
display: flex;
flex-wrap: wrap;
}
.room{ flex: 0 0 calc(50% -
20px); margin: 10px;
}
}
```

```

@media(min-width: 1370px){
  .rooms-container{ flex-
    direction: column;
  }
  .room{ display: flex;
    padding-bottom: 0;
    margin: 5px 0;
  }
  .room-image{
    flex: 1;
  }
  .room-image img{
    height: 100%;
  }
  .room-text{
    flex: 1;
  }
  .room:nth-child(even){ flex-
    direction: row-reverse;
  }
}

/* customers */

.customers{ margin-top: 40px; padding: 40px 0; background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)), url("images/customer-banner.jpg") center/cover no-repeat fixed;
}
.customer{
  background: #fff;
  padding: 35px; text-align: center;
  margin: 24px 0;
  box-shadow: 0px 0px 5px rgba(0, 0, 0, 0.75);
  cursor: pointer;
  transition: var(--transition);
}
.rating{
  margin: 10px 0;
  color: var(--yellow);
}
.customer h3{ font-size: 25px;
}
.customer p{
  opacity: 0.7; line-height: 1.8; width: 60%;
  margin: 0 auto;
}

```



```

}
.customer img{ width:
  170px; height:
  170px; border-
  radius: 50%;
  margin: 25px auto;
}
.customer span{ font-
  weight: 700;
  opacity: 0.7;
}
.customer:hover{ transform:
  translateY(-18px);
}
@media(min-width: 992px){
  .customers-container{ display: grid;
    grid-template-columns: repeat(2,
    1fr); grid-gap: 30px;
  }
}
@media(min-width: 1370px){
  .customers-container{
    display: grid;
    grid-template-columns: repeat(3, 1fr);
  }
}
@media(max-width: 500px){
  .customer p{
    width: 100%;
  }
  .customer img{
    width: 100px;
    height: 100px;
  }
}
/* footer */
.footer{ background: var(--
  dark); color: #fff;
  text-align: center;
}
.footer-container{
  width: 85vw;
  margin: 0 auto;
  padding: 30px 0;
}
.footer-container p, .footer-container a, .footer-container span{
  opacity: 0.8;
}

```

```

.footer a{
  display: block;
  color: #fff;
  text-decoration: none;
}
.social-icons{ list-
  style: none;
  display: flex;
  justify-content: center;
  padding: 15px 0;
}
.social-icons li{
  margin: 0 10px; width:
  50px; height: 50px;
  background: #2e2e2e;
  border-radius: 50%;
  transition: var(--
  transition);
  cursor: pointer;
}
.social-icons li:hover{
  background: #fff;
  color: #2e2e2e;
}
.contact-item span{
  display: block;
}
@media(min-width: 900px){
  .footer-container{
    display: grid;
    grid-template-columns: repeat(2, 1fr); grid-
    gap: 20px;
  }
}
@media(min-width: 1170px){
  .footer{
    text-align: left;
  }
  .footer-container{ grid-template-
    columns: repeat(4, 1fr);
  }
  .footer-container div:nth-child(1) p{ padding-
    right: 20px;
  }
  .contact-item{ display: grid; grid-
    template-columns: 10% 90%;
    margin-bottom: 15px;
    align-items: center;

```

```

    }
}

.showModal{
    position: fixed;
    background:
    transparent; top: 0;
    right: 0; bottom: 0;
    left: 0;
    z-index: 5;
}

```

```

JAVAconst navBtn = document.getElementById('nav-btn');
const cancelBtn = document.getElementById('cancel-btn');
const sideNav = document.getElementById('sidenav');
const modal = document.getElementById('modal');

```

```

navBtn.addEventListener("click", function(){
    sideNav.classList.add('show');
    modal.classList.add('showModal');
});

```

```

cancelBtn.addEventListener('click', function(){
    sideNav.classList.remove('show');
    modal.classList.remove('showModal');
});

```

```

window.addEventListener('click', function(event){
    if(event.target === modal){
        sideNav.classList.remove('show');
        modal.classList.remove('showModal');
    }
});

```

LOGIN WINDOW

HTML-

```

<!DOCTYPE html>

<html>

<head>

    <title>Login</title>

    <link rel="stylesheet" href="login-up.css">

</head>

<body>

    <div class="bg-img">

```

```
<form action="/action_page.php" class="container" style=" margin-
top: 118px;">

<h1>Login</h1>

<label for="email"><b>Email</b></label>
<input type="text" placeholder="Enter Email" name="email" required>

<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw" required>

<button type="submit" class="btn">Login</button>
</form>
</div>

<script src="in-up.js"></script>
</body>
</html>
```

CSSbody,

```
html {
  height: 100%;
}
* {
  box-sizing: border-box;
}
```

```
.bg-img {
  /* The image used */
  background-image: url("img.jpeg");

  /* Control the height of the image */ min-
  height: 710px;
```

```
/* Center and scale the image nicely
*/ background-position: center;
background-repeat: no-repeat;
background-size: cover; position:
relative;
}
```

```
/* Add styles to the form container */
.container { position:
absolute; right: 0;
margin: 20px; max-
width: 300px; padding:
16px; background-color:
white;
}
```

```
/* Full-width input fields */
input[type=text], input[type=password] {
width: 100%; padding: 15px; margin: 5px
0 22px 0; border: none; background:
#f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
background-color: #ddd;
outline: none;
}
```

```
/* Set a style for the submit button */
.btn { background-color:
#04AA6D; color: white;
padding: 16px 20px; border:
none; cursor: pointer; width:
100%; opacity: 0.9;
}
```

```
.btn:hover {  
  opacity: 1;  
}
```

JAVASCRIPT-

```
document.getElementById("loginForm").addEventListener("submit", function(event) {  
  event.preventDefault(); // Prevent form submission  
  
  // Get form input values  
  var username = document.getElementById("username").value;  
  var password = document.getElementById("password").value;  
  
  // Perform login logic  
  // Replace with your own implementation  
  console.log("Login form submitted");  
  console.log("Username: " + username);  
  console.log("Password: " + password);  
  
  // Clear form input fields  
  document.getElementById("username").value = "";  
  document.getElementById("password").value = "";  
});  
  
// Signup form submission  
document.getElementById("signupForm").addEventListener("submit", function(event) {  
  event.preventDefault(); // Prevent form submission  
  
  // Get form input values  
  var username = document.getElementById("username").value;  
  var password = document.getElementById("password").value;  
  
  // Replace with your own implementation  
  console.log("Signup form submitted");
```

```
console.log("Username: " + username);  
console.log("Password: " + password);
```

```
// Clear form input fields  
document.getElementById("username").value = "";  
document.getElementById("password").value = "";  
});
```

SIGN UP WINDOW

HTML-

```
<!DOCTYPE html>  
<html>  
<head>  
  <title>Login</title>  
  <link rel="stylesheet" href="in-up.css">  
</head>  
<body>  
  <div class="bg-img">  
    <form action="/action_page.php" class="container" style="margin-top: 118px;"> <h1>Sign Up</h1>  
  
    <label for="email"><b>Email</b></label>  
    <input type="text" placeholder="Enter Email" name="email" required>  
  
    <label for="psw"><b>Password</b></label>  
    <input type="password" placeholder="Enter Password" name="psw" required>  
  
    <button type="submit" class="btn">Sign Up</button>  
    <p>Already have an account? </p>  
    <a href="login.html">login</a>  
  </form>  
</div>  
  
  <script src="in-up.js"></script>  
</body>
```

```
</html>
```

CSSbody,

```
html {  
  height: 100%;  
}
```

```
* {  
  box-sizing: border-box;  
}
```

```
.bg-img {  
  /* The image used */  
  background-image: url("signup.jpeg");  
  
  /* Control the height of the image */ min-  
  height: 710px;  
  
  /* Center and scale the image nicely */  
  background-position: center; background-  
  repeat: no-repeat; background-size: cover;  
  position: relative;  
}
```

```
/* Add styles to the form container */  
.container { position:  
  absolute; right: 0;  
  margin: 20px; max-  
  width: 300px; padding:  
  16px; background-color:  
  white;  
}
```

```
/* Full-width input fields */  
input[type=text], input[type=password] {
```



```
width: 100%; padding: 15px; margin: 5px
0 22px 0; border: none; background:
#f1f1f1;
}
```

```
input[type=text]:focus, input[type=password]:focus {
  background-color: #ddd;
  outline: none;
}
```

```
/* Set a style for the submit button */
.btn { background-color:
#04AA6D; color: white;
padding: 16px 20px; border:
none; cursor: pointer; width:
100%;
opacity: 0.9;
}
```

```
.btn:hover {
  opacity: 1;
}
```

JAVASCRIPT-

```
document.getElementById("loginForm").addEventListener("submit", function(event) {
  event.preventDefault(); // Prevent form submission
```

```
// Get form input values
```

```
var username = document.getElementById("username").value;
```

```
var password = document.getElementById("password").value;
```

```
// Replace with your own implementation
```

```
console.log("Login form submitted");
```

```
console.log("Username: " + username);
console.log("Password: " + password);

// Clear form input fields
document.getElementById("username").value = "";
document.getElementById("password").value = "";
});

// Signup form submission
document.getElementById("signupForm").addEventListener("submit", function(event) {
    event.preventDefault(); // Prevent form submission

    // Get form input values
    var username = document.getElementById("username").value;
    var password = document.getElementById("password").value;

    // Replace with your own implementation
    console.log("Signup form submitted");
    console.log("Username: " + username);
    console.log("Password: " + password);

    // Clear form input fields
    document.getElementById("username").value = "";
    document.getElementById("password").value = "";
});
```