

Objective:

To develop an application that provides **room's information** regarding the location, facilities, food, price, maps, transportations facility, and safety measures.

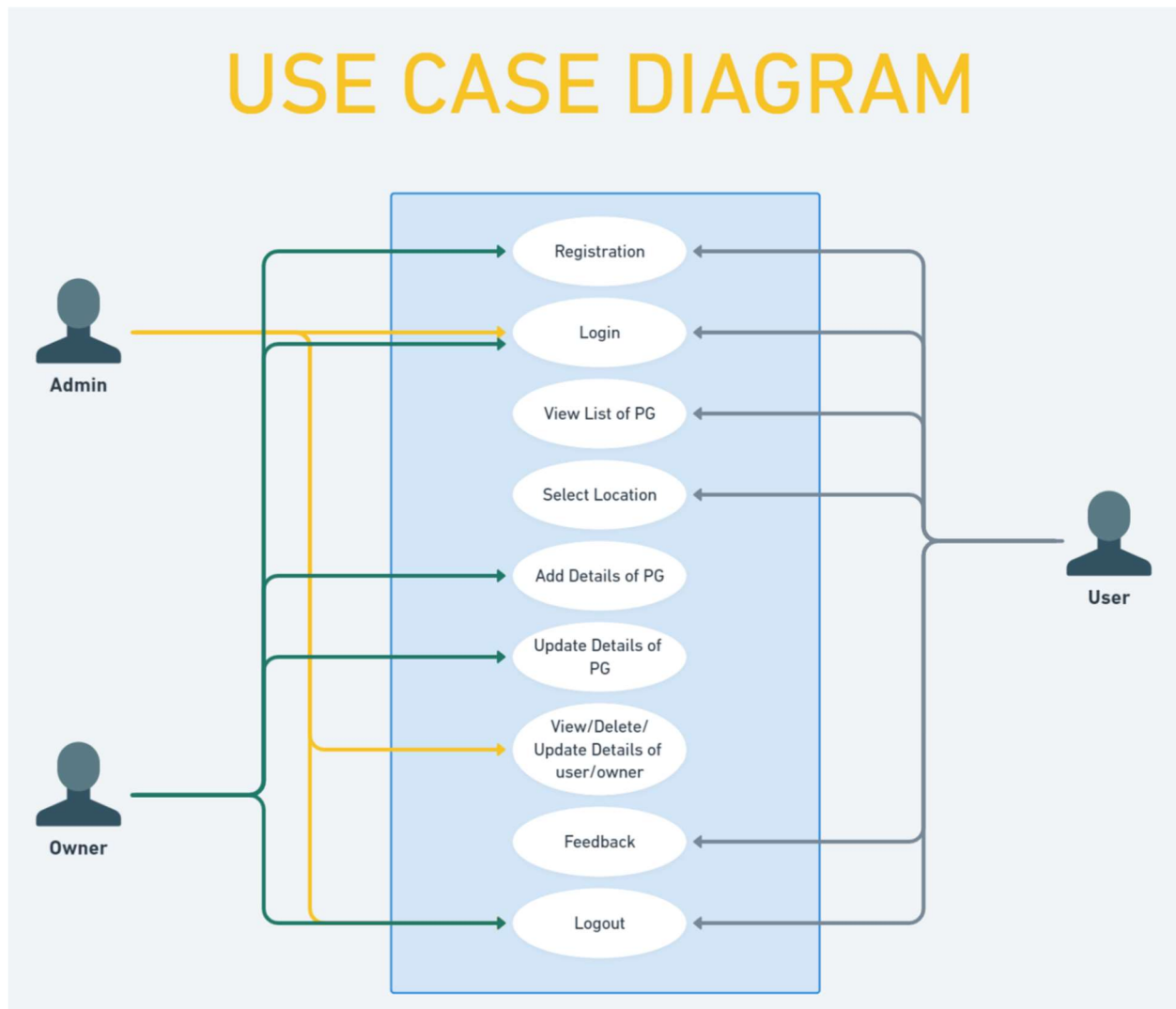
Features:-

- Quick search
- View Search results
- Call the owner
- Get Details

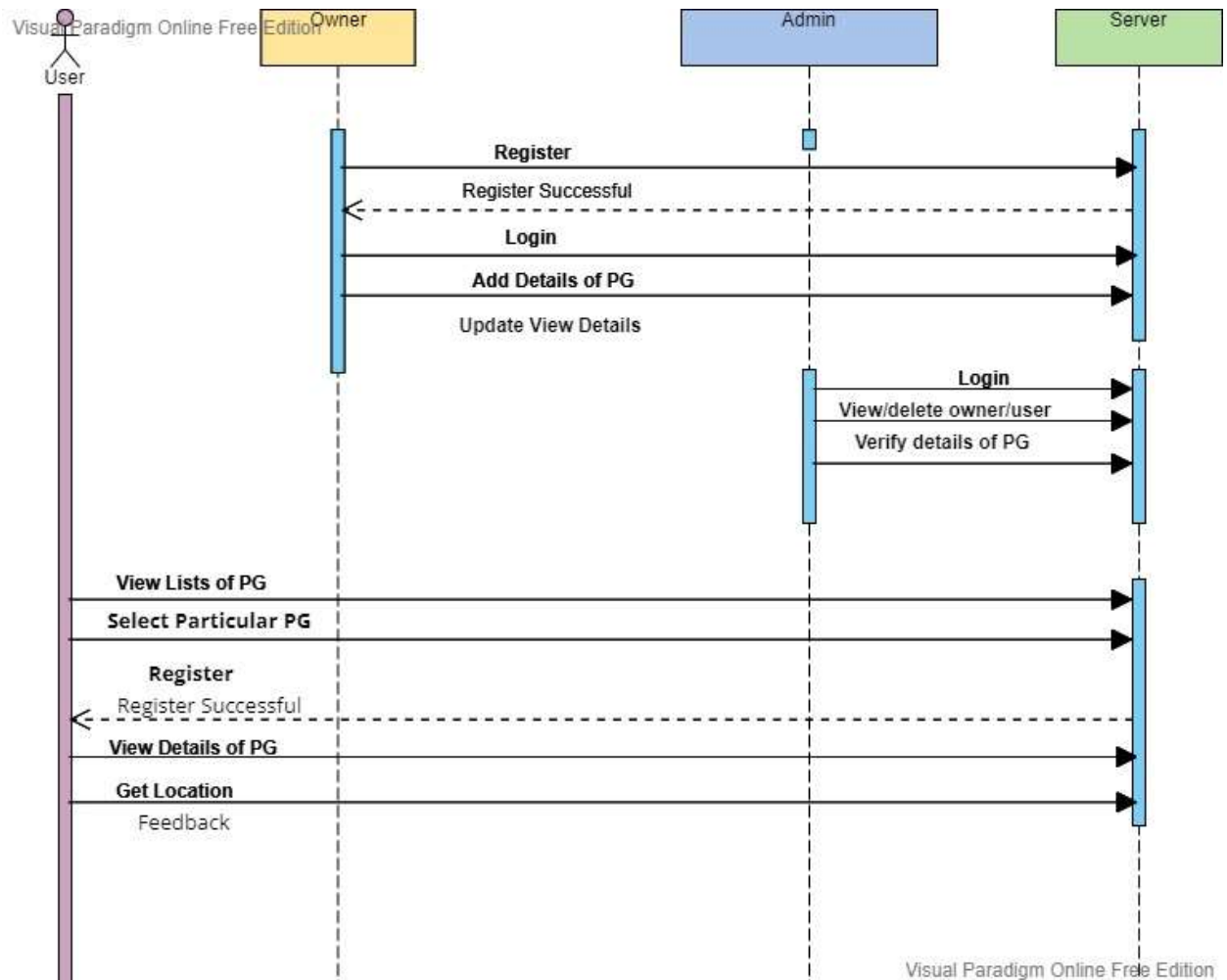
System Design:

All the below diagrams has been used for the visualization of data processing and structured design of the Room process and working flow.

USE CASE DIAGRAM

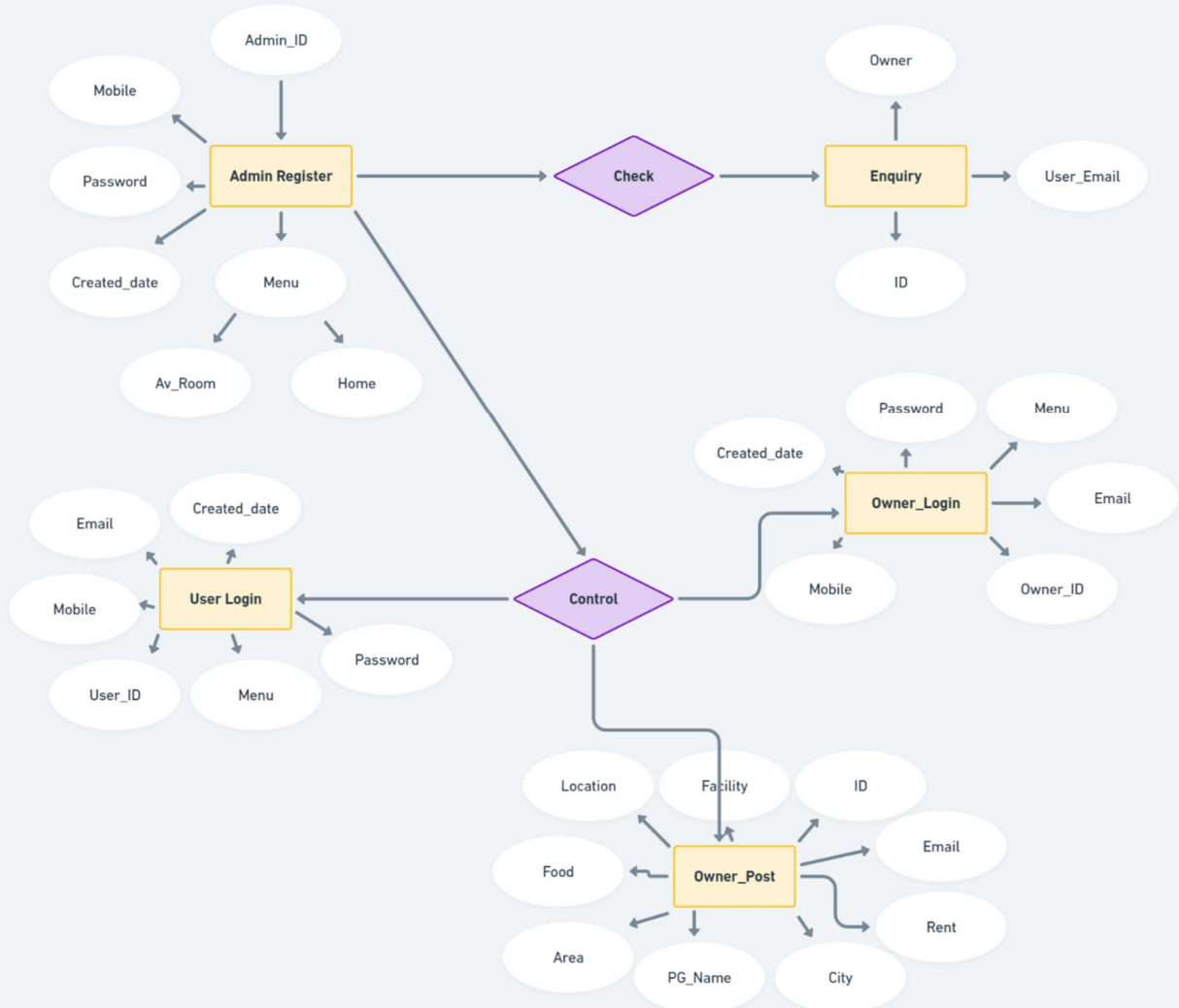


SEQUENCE DIAGRAM



ER DIAGRAM

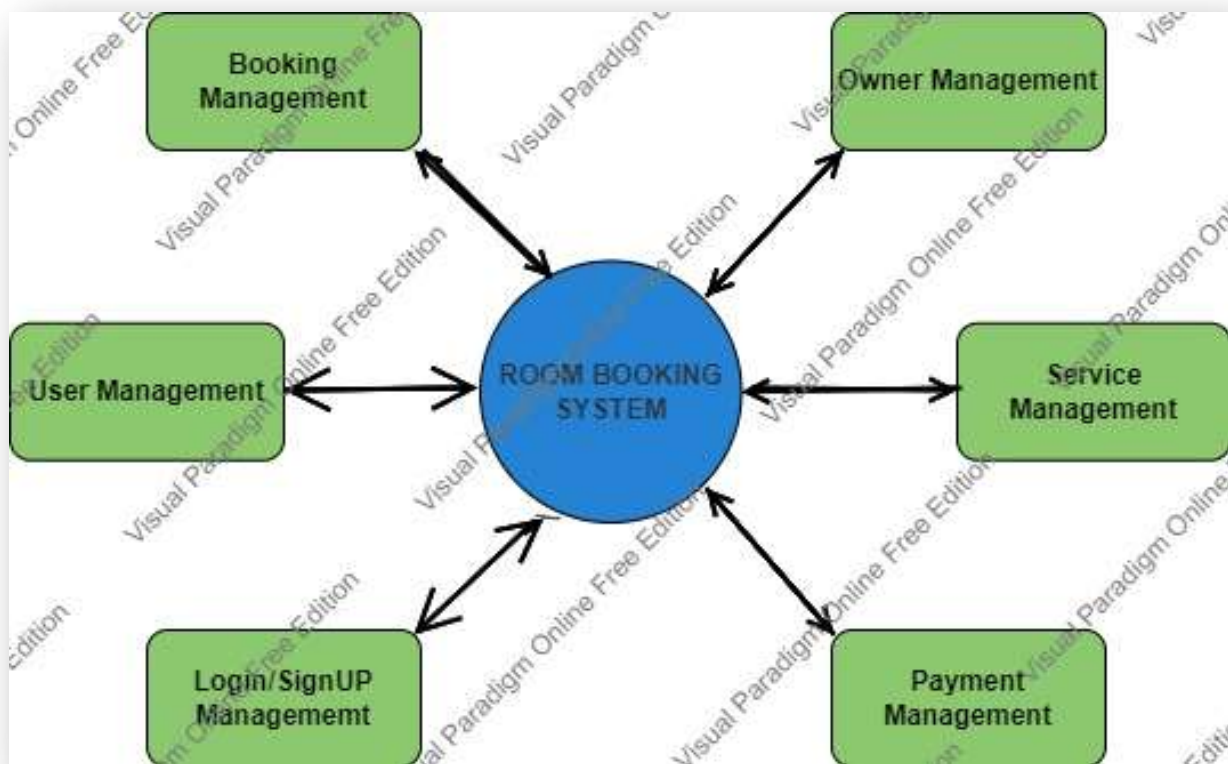
ER DIAGRAM



DATA FLOW DIAGRAM

DFD LEVEL 0 :-

- It's basic overview of the whole Room booking system
- It's designed to be an at-a-glance view of Booking, User, Login showing the systems.
- In Zero Level DFD, we have described the flow of the Room System.



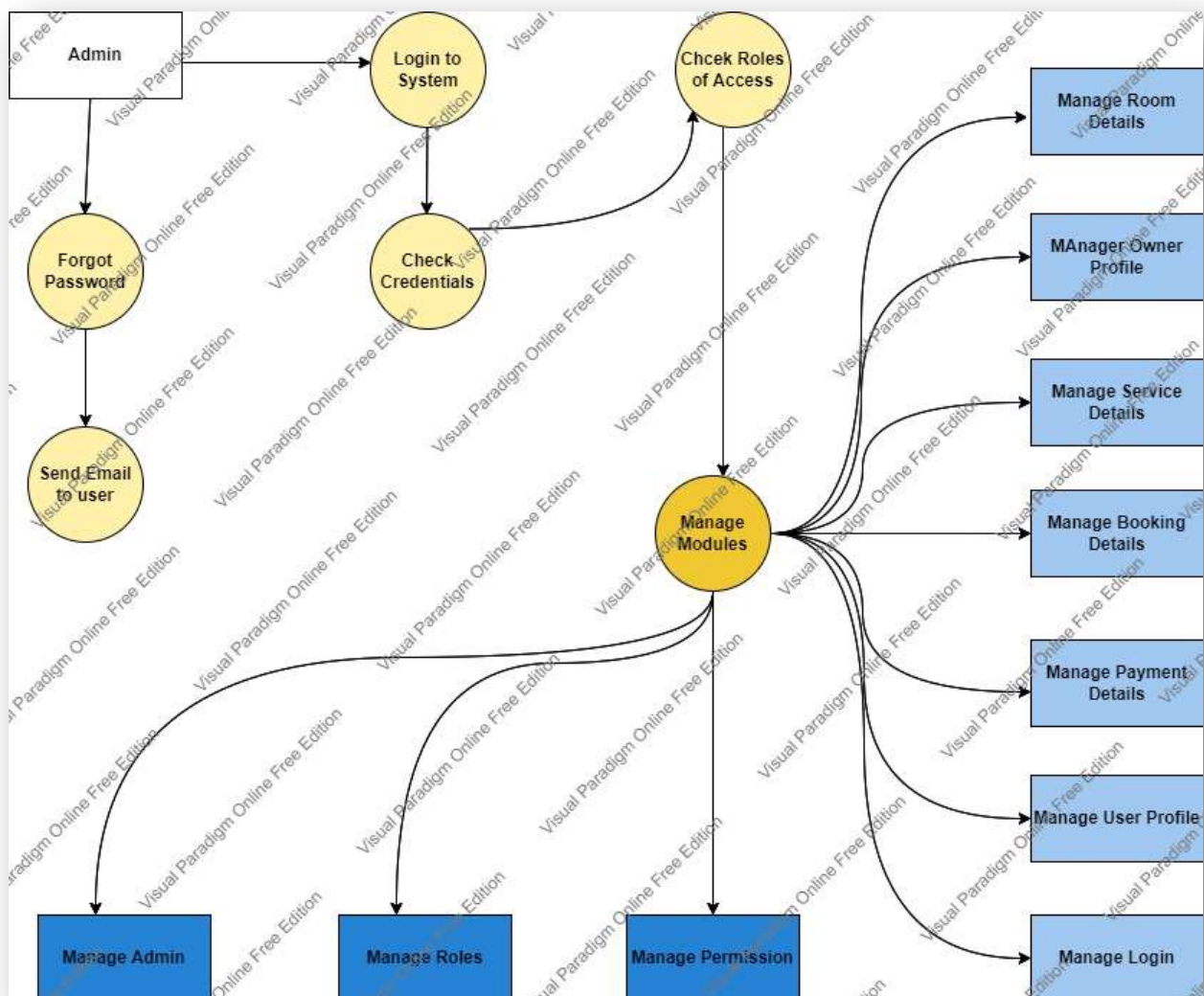
DFD Level 1:

- It shows how the system is divided into sub-systems (processes) each of which deals with one or more data flow .
- It identifies internal data store of Login, User, Booking, Room Availability, Payment, Services that must be present in the room.
- It provides a more detailed breakout of process.



DFD Level 2:-

- It may require more functionalities of Room to reach the necessary level of details about the Room functioning.
- It contains more details of Login, customers, booking, details of room, payment, Services, Rooms.



Low Level Functionalities of Room Booking System:

- Admin logs in to the system and manages all the functionalities of Room Booking System.
- Admin can edit, add, delete, view of the records of Hotel Services, Booking, Login.
- Admin can manage all the details of Room, Payments, Customers.
- Admin can track the detailed information of the Rooms, Services, Payment, Booking.

SYSTEM ANALYSIS

In the present system a customer can get only little information like address, contact number and food. Due to lack of information like price, exact location, security measures, the customer is unable to find the best room of their choice. Often the customer may be misguided.

The proposed project allows one to easily access the relevant information and make necessary judgment regarding the room's selection. User can take a look on different aspects of the information provided like location map, food, price, transportation facility and even measures and the best room of their choice.

PROCESS MODEL

We choose **ITERATIVE PROCESS** model because

- The process start with the design and development of just a limited part of the software
- It means, we return to expand and enhance this material repeatedly – until the entire system has been implemented and deployed.
- We also consider WATERFALL as a cheaper – but slower to produce results as all planning must be done in advance, before any implementation begins.
- The focus of Iterative Model is on delivering tested small features and then reviewing these interactively with the client, which means gradually implanting the actual system in discrete component parts.
- **Goals are subject to change over time.**

MODULES

1. ADMINISTRATOR MODULE:

- This module provides administrator related functionally.
- Manages all information and has access rights to add, delete, edit and view the data related to ROOM, USER, etc.

2. REGISTRATION MODULE:

- Room owners, users, will undergo the registration procedure by specifying the identity proof, skills, education, working location, company name and address-proof and obtain a username and password, which is used for further transactions.

3. ROOM OWNER MODULE:

- After the registration the ROOM_OWNER has to submit the details of ROOM based on the verification process.

- The ROOM_OWNER can provide informations regarding location through Google Map, cost, Room's details, facilities and even security details.
- Also , update the status of the PG like whether it is filled or available.

4. USER MODULE:

- After the registration the user can obtain the details of room located in a place.
- They can select the appropriate room depending on information provided like security, Google Map, and price.
- Filter the data according to their need.

5. VERIFICATION MODULE:

- The ROOM_OWNER has to undergo the verification process after the registration process.
- They(ROOM_OWNER) has to submit the room's document to get verified.

SOFTWARE REQUIREMENT

- **1. Operating System:**
 - Windows(7, 8, 10)
- **2. Web Browser:**
 - Google Chrome, Microsoft Edge, Mozilla FireFox.
- **3. Database Management System :**
 - MS SQL Server, MySQL
- **Good Network Speed.**