

**PG FINDER**

Project Report

Submitted as Partial Fulfillment of

Master of Computer Application

Semester-VI

**Developed at**

**Radixweb Pvt Ltd.**

**Developed by**

**MohammadAlmas Shaikh (202200719010131)**

**Under Guidance of**

**Dr. Perna Agrawal, FCAIT**

**Mrs. Varsha Obrori, Radixweb Pvt Ltd**

Faculty of Computer Applications & Information Technology (FCAIT)

GLS University

Ahmedabad-380006

Project Title:	PG Finder										
Description:	“PG Finder” is an online paying guest system in which users can find several paying accommodations and book nearby the workplace or desired place.										
Aim:	The Main objective of system is provide PG accommodations to user as per their need										
Category:	Web Application										
Tools Used / Required:	<div>Development side</div> <div>FrontEnd:React.js</div> <div>BackEnd:Python</div> <div>Framework:django</div> <div>Database:-Firebase Cloud Fire store</div>										
Developed at:	Radixweb PVT LTD										
Developed By:	<table><tr><td>Enro No</td><td>Name</td><td>Institute</td><td>Contribution</td></tr><tr><td>202200719010131</td><td>MohammadAkmas Shaikh</td><td>GLS University</td><td>BackEnd</td></tr></table>			Enro No	Name	Institute	Contribution	202200719010131	MohammadAkmas Shaikh	GLS University	BackEnd
Enro No	Name	Institute	Contribution								
202200719010131	MohammadAkmas Shaikh	GLS University	BackEnd								

**Guided By:**

**Internal at Institute**

**External at company**

**Name:** Dr. Perna  
Agrawal, FCT

**Designation:**  
**Assistant professor**

**Name: Varsha Obrori**

**Designation: Technical  
Team Lead**

## **Certificates**

## **Acknowledgment**

- **extend our heartfelt gratitude to all those who contributed to the successful completion of the PG Finder project. Firstly, we would like to express our deepest appreciation to our internal guide, Dr Perna Agrawal , for their invaluable mentorship, guidance, and unwavering support throughout every stage of the project. Their expertise and insights were instrumental in steering us in the right direction and ensuring the project's success.**
- **I would like to express our gratitude to all those who contributed to the development and completion of the PG Finder project. Firstly, we extend our thanks to our project team members for their dedication and hard work throughout the process.**
- **Special thanks are due to Varsha Obrori and Radixweb PVT LTD for their invaluable assistance in providing resources, guidance, and support during the execution of this project**
- **We are also thankful to the participants and users who provided feedback and suggestions, helping us improve the functionality and usability of the PG Finder platform.**
- **Without the collective efforts and support of everyone involved, this project would not have been possible.**

## **Company Details**

- **Radixweb Pvt Ltd is an Ahmedabad-based software development company. Founded in 2000, Radixweb specializes in providing IT services and solutions to clients globally. The company offers a wide range of services including custom software development, web development, mobile application development, enterprise solutions, software testing, and IT consulting.**
- **Radixweb has expertise in various technologies such as Microsoft .NET, Java, PHP, Python, JavaScript frameworks, mobile app development platforms like iOS and Android, and more. They serve clients across various industries including healthcare, finance, manufacturing, retail, and logistics.**
- **The company has established itself as a reliable technology partner for businesses looking to innovate and leverage digital solutions for their growth and efficiency. Radixweb focuses on delivering quality services, adhering to deadlines, and providing excellent customer support, which has contributed to its reputation in the IT industry.**

## **Index Page**

## Introducation

### Project Defination

- PG Finder is a web Application designed to streamline the process of finding suitable paying guest accommodations.. Whether you're looking for a PG with specific amenities, in a particular location, or within a certain budget, PG Finder is here to simplify your search

### Existing System

- In understanding the landscape of finding paying guest (PG) accommodations, it's crucial to examine the prevailing methods and challenges within the existing system. The current approach predominantly revolves around conventional techniques such as word-of-mouth recommendations, classified advertisements, and manual online searches

### Need Of New System

- **Intuitive Interface:** The introduction of a smoother user experience ensures that navigating through the PG Finder platform is effortless and enjoyable for users of all backgrounds and technical proficiencies.
- **Efficient Functionality:** By optimising performance and responsiveness, we aim to minimise loading times and streamline processes, allowing users to accomplish their tasks with greater efficiency.
- **Room Tour:** Implementing 360-degree Room View Tour Which make Application more attractive.
- **Continuous Improvement:** Feedback gathered from 360-degree reviews serves as valuable insights for identifying areas of improvement and refining our platform to better serve the needs of our users over time

### Objective Of New System

- The primary goal is to offer comprehensive information about available PG accommodations, encompassing details such as location, amenities, meal provisions, pricing, accessibility via maps, transportation options, and safety protocols
- customers will have the ability to reserve their desired accommodation and facilitate monthly rent payments seamlessly.



### **Hardware Requirement**

- **Processor:** Multi-core processors (e.g., Intel Xeon, AMD Ryzen)
- **RAM:** 8GB TO 16GB
- **Storage :** 256 GB SSD OR 1 TB HSD

### **Software Requirement**

- **VS CODE :** VS Code can serve as the primary integrated development environment (IDE) for developers working on the PG Finder project. It provides a feature-rich environment for writing, editing, and debugging code efficiently.
- **Chrome :** Many users prefer Chrome Browser due to its user-friendly interface, speed, and features such as tab management, bookmarks synchronization, and customizable settings, making it a preferred choice for accessing PG Finder.

### **Feasibility Study of the PG Finder**

#### **Market Analysis:**

- **Evaluate demand for PG accommodations in target markets.**
- **Analyze trends, preferences, and pain points of individuals seeking PG accommodations.**

- **Assess competitive landscape, including existing PG accommodation platforms.**

#### **Technical Feasibility:**

- **Assess technical requirements and constraints for PG Finder development.**
- **Evaluate availability of necessary technologies, tools, and expertise.**

#### **Operational Feasibility:**

- **Evaluate operational processes and workflows for running PG Finder.**
- **Identify operational challenges and risks, and develop mitigation strategies.**

#### **User Acceptance and Usability:**

- **Gather user feedback through surveys or focus groups.**
- **Assess user acceptance and satisfaction with existing PG accommodation search methods.**
- **Identify usability issues and preferences to inform PG Finder design and development.**

#### **Conclusion and Recommendations:**

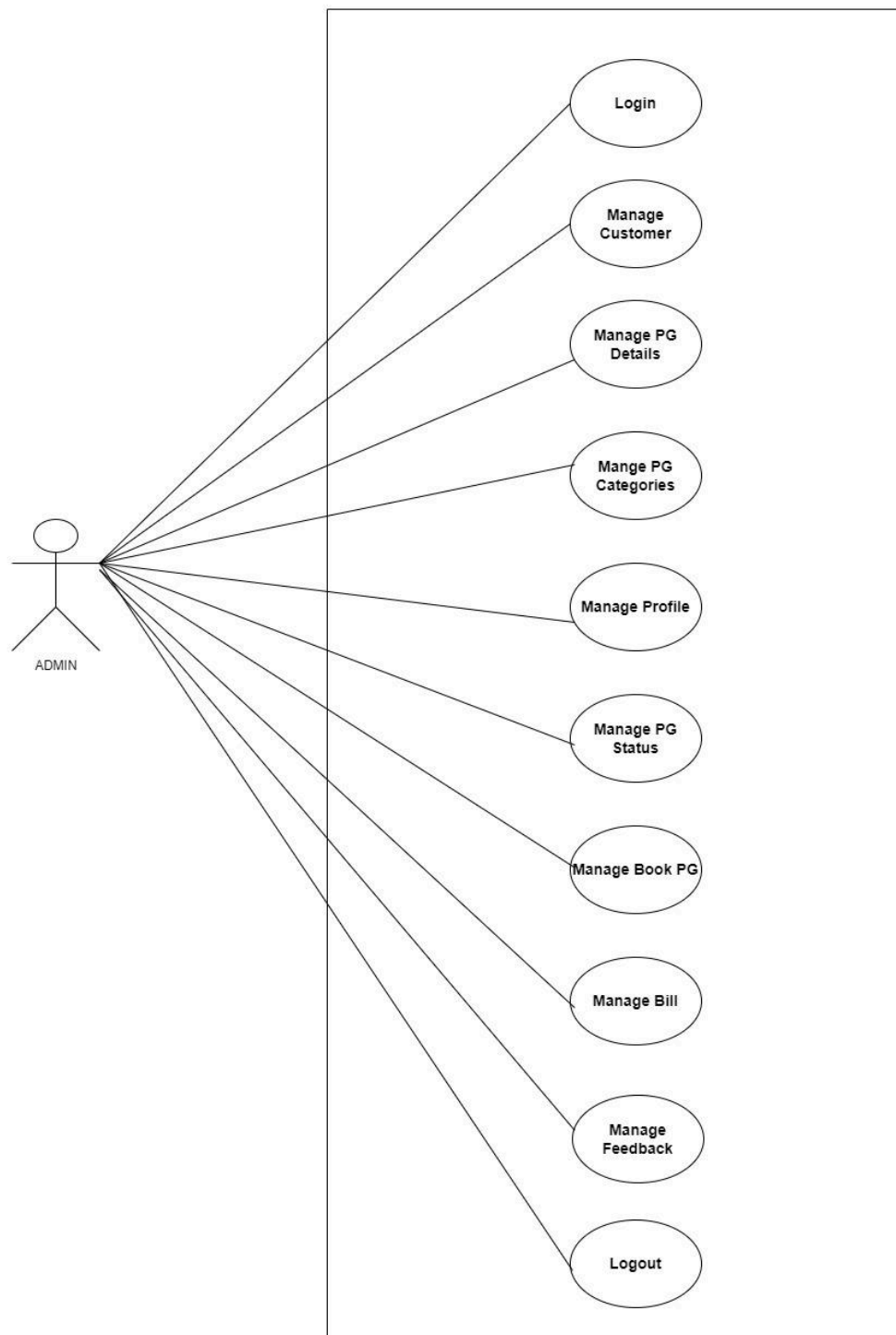
- **Summarize findings of feasibility study and assess viability of PG Finder system.**
- **Make recommendations on project continuation, scope modification, or alternative solutions.**

#### **System Architectural diagram :- UML Diagram**

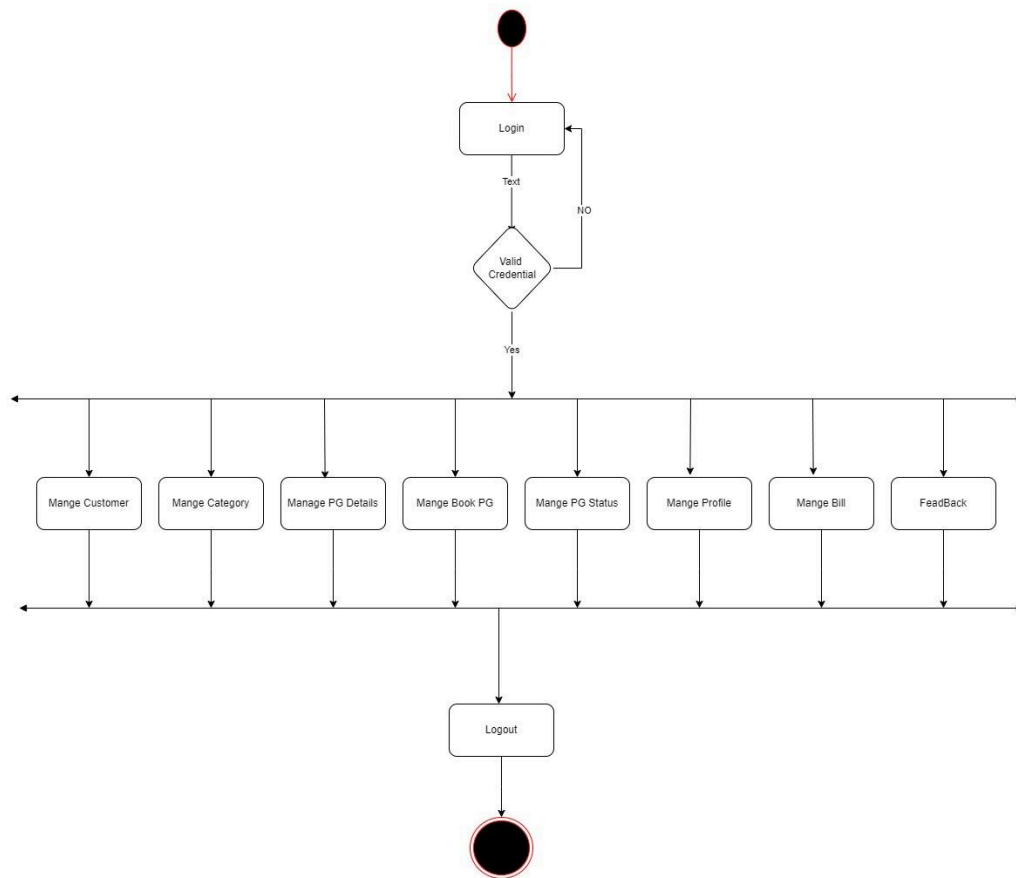
- CustomerUseCaseDiagram



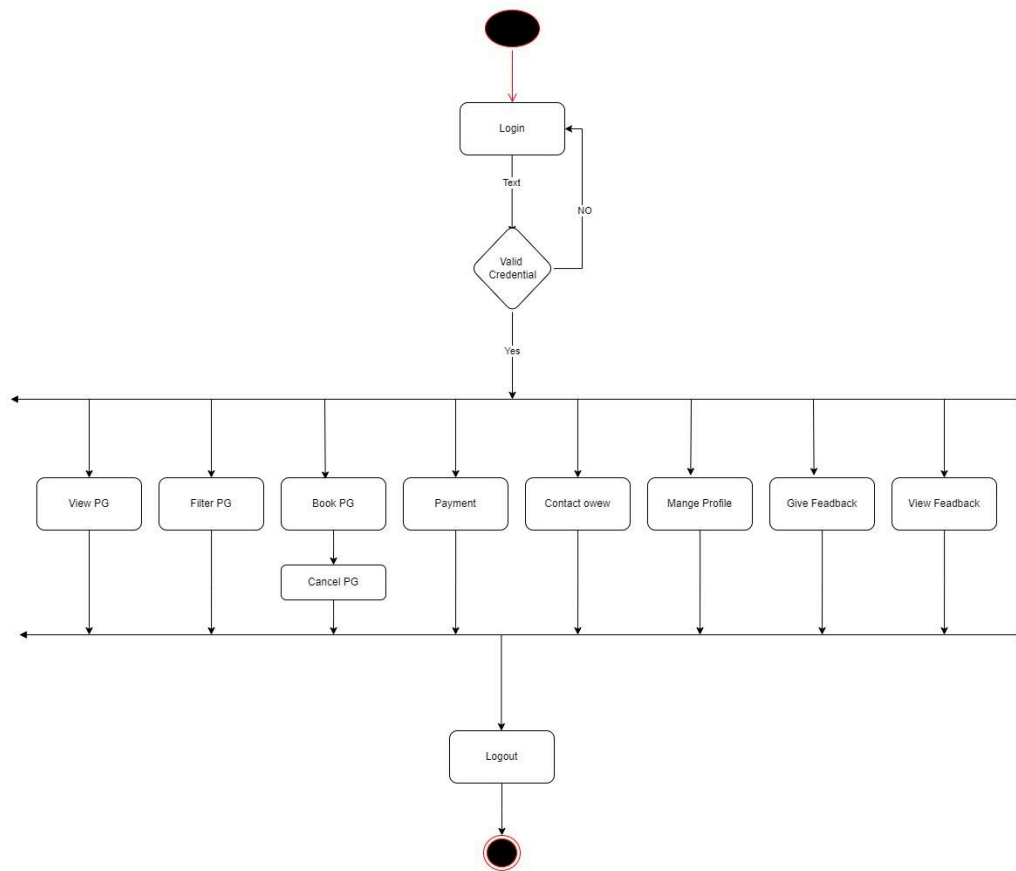
## AdminUseCaseDiagram



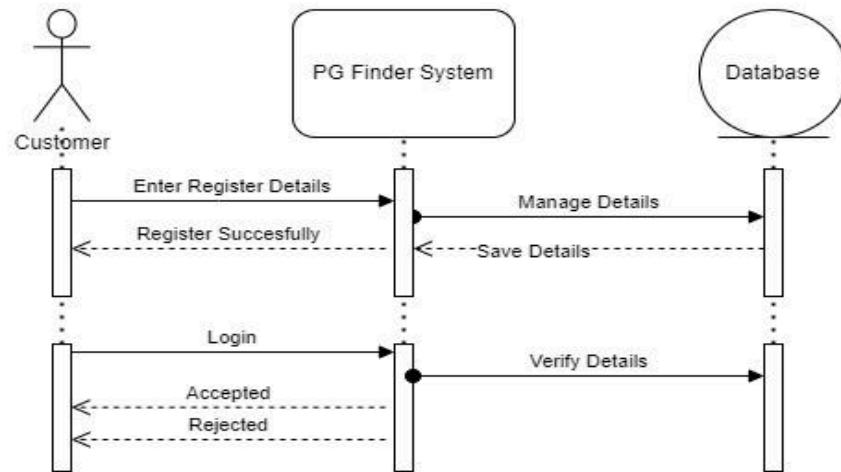
## AdminActivityDiagram



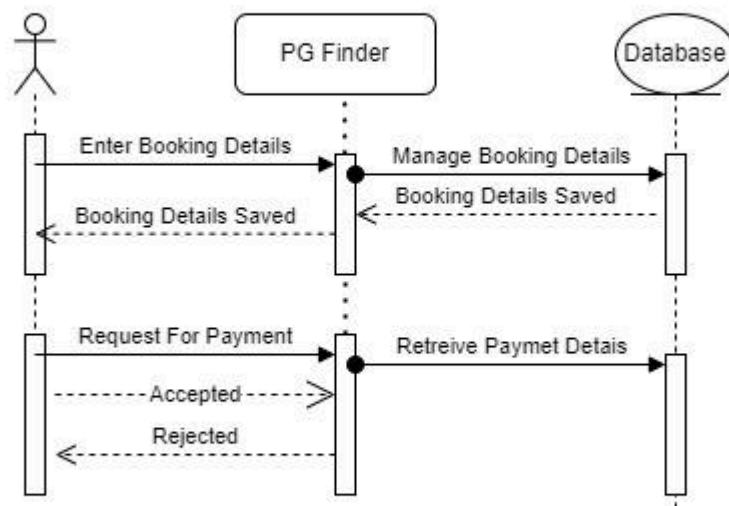
**UserActivityDiagram**



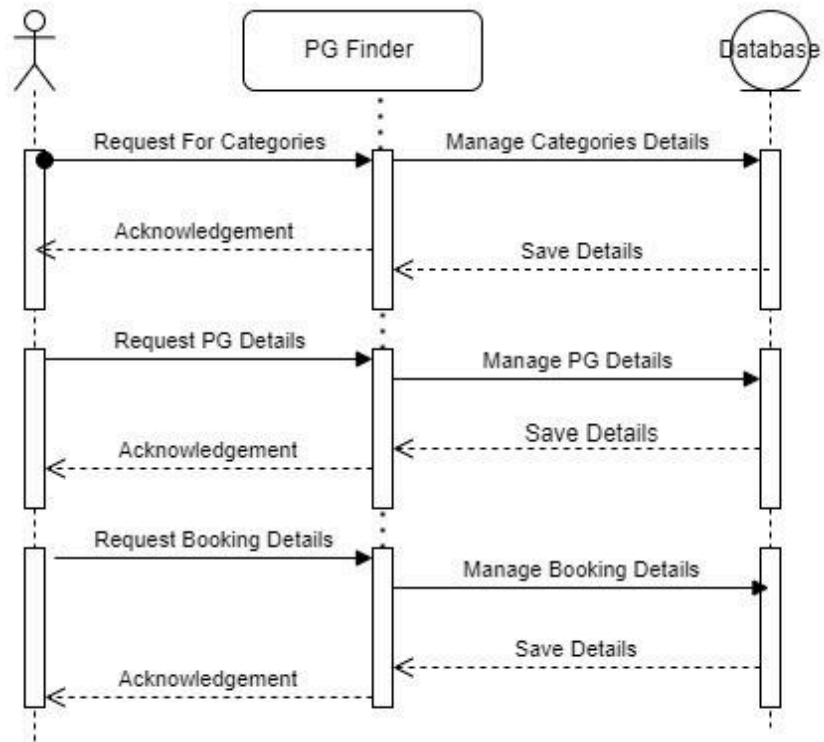
## CustomerSequenceLogin-Register



## BookingCustomerSequence

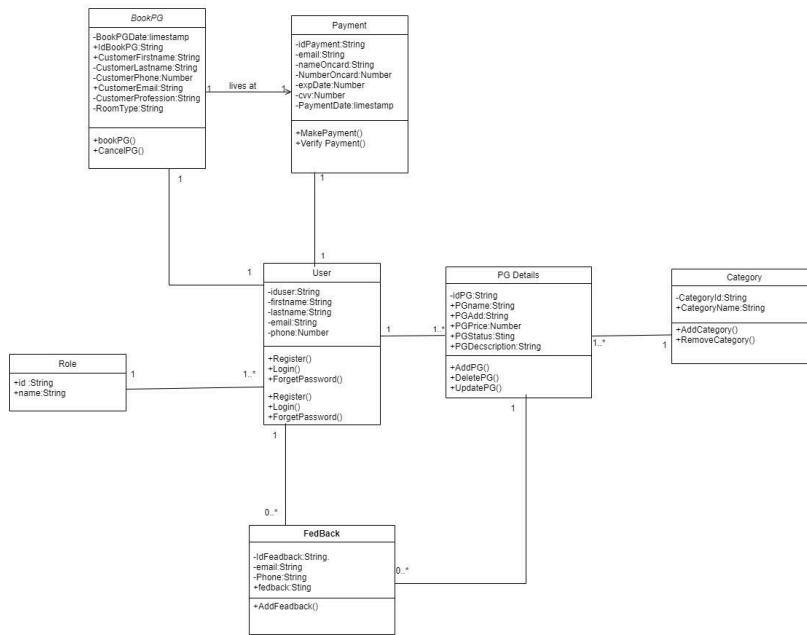


## BookingAdminSequece



## ClassDiagram





## Data Dictionary

### Table Name: PG\_details

**Description:** This table stores all details of Paying Guest (PG) facilities.

Column Name	Data Type	Key Constraint	Description
id_pg	String (PK)	Primary Key	Unique identifier for each PG facility.
pg_name	String (30)	Not Null	Name of the PG facility.
pg_owner	String (30)	Not Null	Name of the PG owner.
publish_date	TimeStamp	Not Null	Date and time the PG information was published.
pg_area	String (20)	Not Null	Area where the PG facility is located.
pg_city	String (20)	Not Null	City where the PG facility is located.
pg_state	String (20)	Not Null	State where the PG facility is located.
pg_price	String (6)	Not Null	Monthly rent of the PG facility (including currency symbol).
pg_status	String (10)	Not Null	Availability status of the PG facility (e.g., "available", "unavailable").
pg_amenities	Array(15)	Not Null	List of amenities offered by the PG facility (up to 15).
pg_house_rules	Array(15)	Not Null	List of house rules of the PG facility (up to 15).
pg_rooms	Array(3)	Not Null	Details of room types available in the PG (up to 3).
pg_food	Array(3)	Not Null	Food options available in the PG (up to 3).
pg_desc	String (100)	Not Null	Description of the PG facility.
pg_image	Map	Not Null	Stores the PG image information as a key-value pair (e.g., path, filename).
category	String (5)	Not Null	Category of the PG facility (e.g., "men's", "women's", "unisex").

**Table Name: Registration****Description: This table stores all details of user registration**

Column Name	Data Type	Key Constraint	Description
id_regi	String (PK)	Primary Key	Unique identifier for each registered user.
profile_image	Map	-	Stores the profile image information as a key-value pair (e.g., path, filename).
first_name	String (25)	Not Null	First name of the registered user.
last_name	String (25)	Not Null	Last name of the registered user.
email	String (25)	Not Null	Email address of the registered user.
phone_number	Number (10)	Not Null	Phone number of the registered user. (10 digits)
address	String (50)	-	Address of the registered user.
role	String (10)	Not Null	Role assigned to the registered user. (e.g., "admin", "user")

**Table Name: BookPG**

**Description: This table stores details of PG bookings.**

Column Name	Data Type	Key Constraint	Description
id_bookpg	String (PK)	Primary Key	Unique identifier for each PG booking.
bookpg_date	TimeStamp	Not Null	Date and time the PG was booked.
profession	String	Not Null	Profession of the customer who booked the PG.
room_type	String	Not Null	Type of room booked in the PG.
id_pg	String (FK)	Not Null	Foreign Key referencing id_pg in PG_details table.
id_regi	String (FK)	Not Null	Foreign Key referencing id_regi in Registration table.

**Table Name: Payment****Description: This table stores details of payments made for PG bookings.**

Column Name	Data Type	Key Constraint	Description
id_payment	String (PK)	Primary Key	Unique identifier for each payment transaction.
payment_date	TimeStamp	Not Null	Date and time the payment was made.
payment_method	String	Not Null	Method used for the payment (e.g., "credit card", "debit card").
name_on_card	String (30)	Not Null	Name of the cardholder as it appears on the payment card.
number_on_card	Number (16)	Not Null	16-digit number of the payment card.
exp_date	Date	Not Null	Expiry date of the payment card (YYYY-MM-DD format).
id_pg	String	-	Stores the PG facility ID associated with the payment.
id_regi	String (FK)	Not Null	Foreign Key referencing id_regi in Registration table.

**Table Name: Feedback****Description: This table stores details of user feedback for PG facilities.**

Column Name	Data Type	Key Constraint	Description
id_feedback	String (PK)	Primary Key	Unique identifier for each feedback entry.
review	String (50)	Not Null	User's review of the PG facility (up to 50 characters).
feedback_date	TimeStamp	Not Null	Date and time the feedback was submitted.
rating	Number	Not Null	User's rating of the PG facility (numerical score).
id_pg	String (FK)	Not Null	Foreign Key referencing id_pg in PG_details table.
id_regi	String (FK)	Not Null	Foreign Key referencing id_regi in Registration table.

## System Screenshot