PROJECT REPORT

ON

StarGateway Hotel Reservation System

Carried Out at

CDAC BANGALORE

UNDER THE SUPERVISION OF

Mrs. Sailaja. P

C-DAC Bangalore

Submitted By

Student Name	PRN No.
Akash Kendre	220350120045
Shubham Donagre	220350120030
Kunal Sivach	220351920044
Karan Khamkar	220351920042
Sagar Malik	220351920008

Candidate's Declaration

We hereby certify that the work being presented in the report entitled **StarGateway Hotel Reservation System**, in partial fulfilment of the requirements for the award of PG Diploma Certificate and submitted in the department of PG-DAC of the C-DAC Bangalore, is an authentic record of our work carried out during the period, 11th July 2022 to 26th September 2022 under the supervision of **Mrs. Sailaja. P**, C-DAC Bangalore.

(Name of Candidate)

Student Name	PRN No.
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Sagar Malik	220351920008

Counter Signed by,

ACKNOWLEDGMENT

This project "**StarGateway Hotel Reservation System**" was truly a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC ACTS).

We are very glad to mention **Mrs. Sailaja. P** for her valuable guidance to work on this project. Her guidance and support helped us to overcome various obstacles and intricacies during the course of project work.

We are highly grateful to **Mr. Shanmuganathan N,** Manager of ACTS training Centre, C-DAC, for her guidance and support whenever necessary during the course of our journey to acquire Post Graduate Diploma in Advanced Computing (PG-DAC) through **C-DAC ACTS, Bangalore**. Our heartfelt thanks go to **Ms. Uma Prasad** our Course Coordinator, PG-DAC who gave all the required support and kind coordination to provide all the necessities.

CERTIFICATE

This is to certify that the work titled " **StarGateway Hotel Reservation System "** is carried out by

Student Name	PRN No.
Akash Kendre	220350120045
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Karan Khamkar	220351920042
Sagar Malik	220351920008

the bonafide students of Diploma in Advanced Computing and Diploma IT Infrastructure, Systems and Security of Centre for Development of Advanced Computing, Bangalore from 11th July 2022 – 26th September 2022. The Course End Project work is carried out under my direct supervision and is completed.

Mrs. Sailaja. P

C-DAC ACTS, Bangalore

Bangalore - 560100, India.

ABSTRACT

The project, StarGateway Hotel Reservation System is a web-based application that allows the Hotel Admin to handle hotel reservation activities online. Project provides room booking and other necessary hotel reservation features. The system allows the admin to manage rooms, services, categories in the system. Customers can view available rooms and book room online. Other hotel services can also be viewed by the customers.

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INTRODUCTION

Now a days people goes to different places for relaxation or recreation. As, there are not so many available hotels & Resorts for large number of people. In a vacation, most of the peoples will go different tourist places for relaxation or recreation and faced problematic situation if there unavailability of room in Hotel or Resort. It will be overcome if the hotels has online booking system.

So we thought that if the Hotel has online room booking and availability checking system, we can provide the system to customers through Online, then it will be convenient and helpful for a customer perspective to Book/Reserve a Room or checking the price, availability and other facilities.

With that inspiration we created a web application "**StarGateway Hotel Reservation System**" to help the People who are basically like to confirm the booking before the traveling to minimize the hassle during the traveling. Moreover, Management also gets a view about the Daily/Monthly data of tourist and also able to compare with the costing to find out the Net Income.

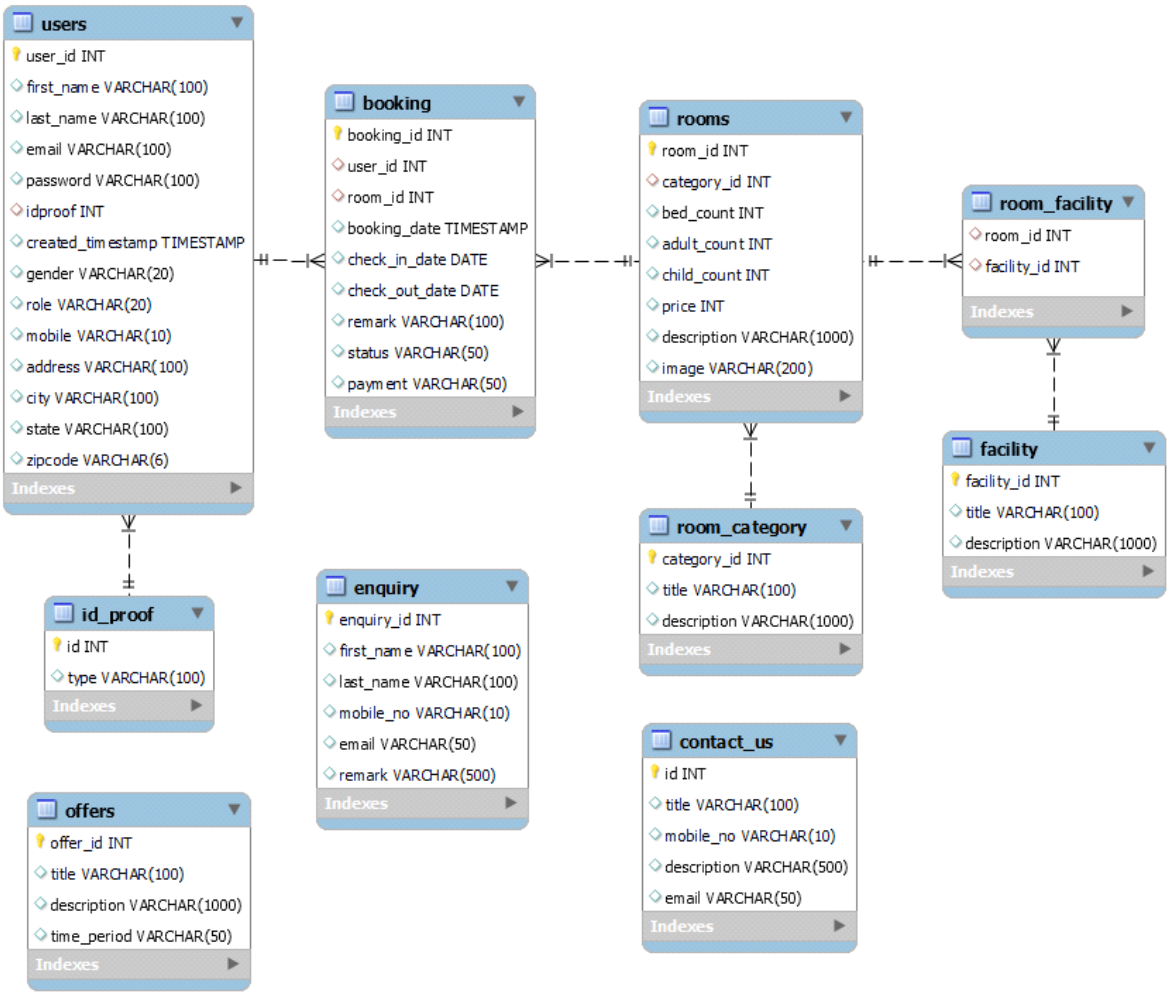
PRODUCT OVERVIEW AND SUMMARY

SCOPE:

- The project, “StarGateway Hotel Reservation System” is a web-based application that allows the resort Admin to handle all hotel reservation activities online.
- Project provides room booking and other necessary hotel reservation features.
- The system allows the admin to post available rooms, facility, offers in the system.
- Customers can view and book rooms online & customers can send Enquiry.
- Other hotel services can also be viewed by the customer.

- **Design and Implementation Constraints**

Enhanced Entity-Relationship Diagram

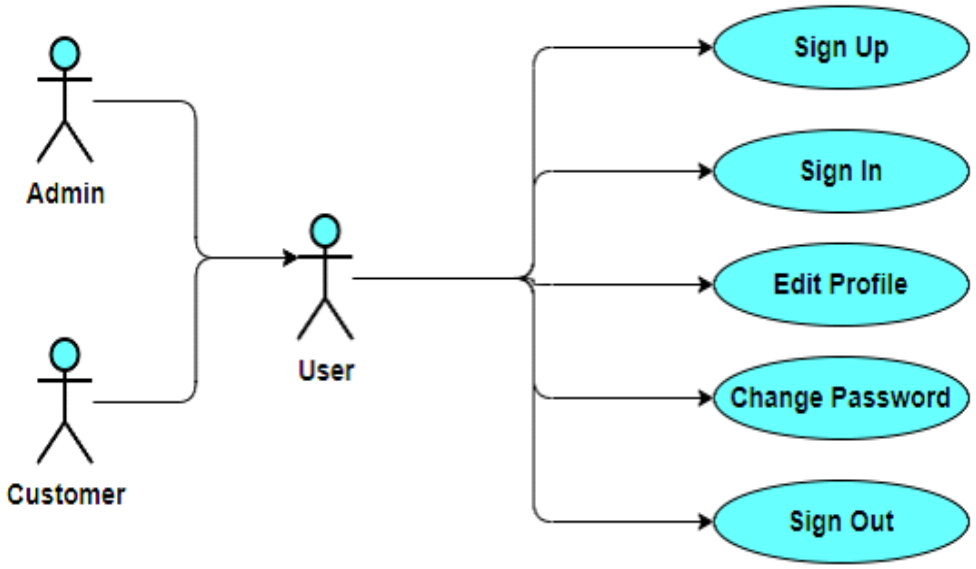


EER Diagram

REQUIREMENTS

3.1 Functional Requirements

USECASE Diagram:

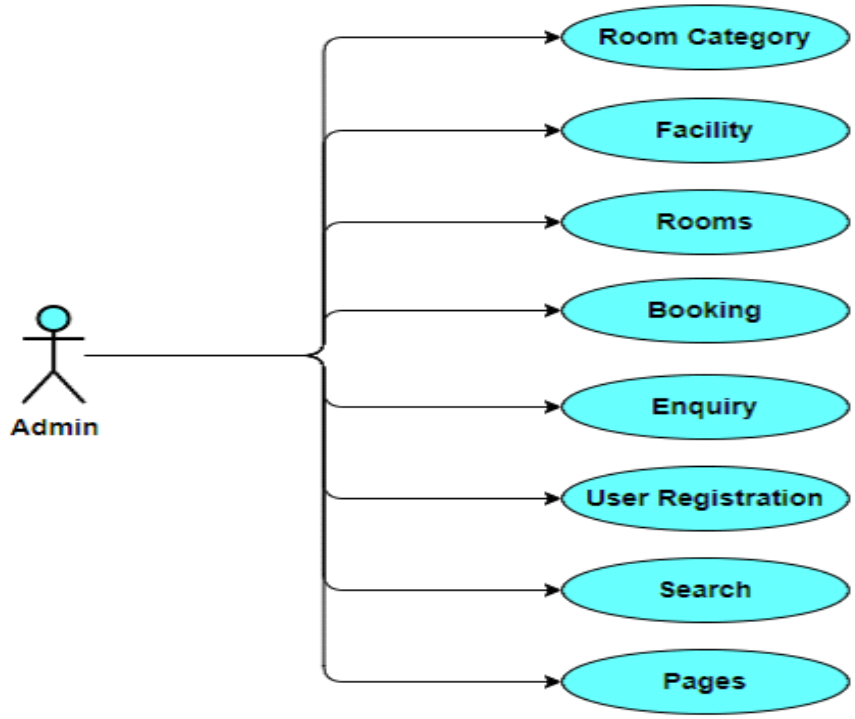


Common Functionalities

This use case diagram describes the common functionalities between the both the user customer and the admin.

- Admin can login, logout and can view the booking, enquiry .etc.
- customer can also login, logout and can able to see booking details.

3.1.1 Use Case of Administration Requirement



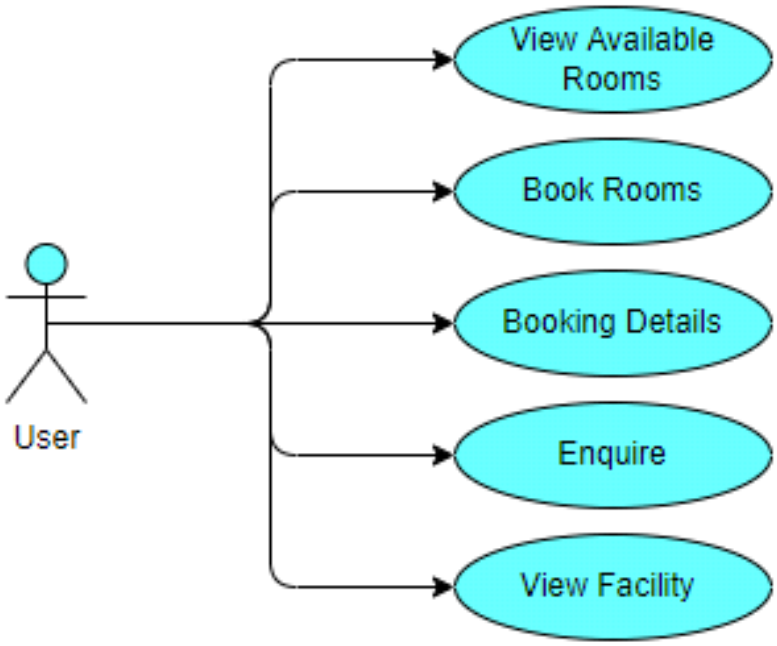
Admin

- This diagram describes the role of an admin.
- Room category – admin can add/edit/delete room category.
- Facility – admin can add/edit/delete facilities to be provided.
- Rooms – admin can add/edit/delete rooms under room category with specific facilities.
- Booking – admin can view the booking request and can take appropriate action.
- Enquiry – admin can view the enquiry send by customers.
- User registration – admin can add new customer/admin.
- Search – admin can search booking/enquiry by id or between specific date intervals.

- Pages – admin can Edit the details on Contact us pages.

- Offers- admin can Add Offers for certain period of Time.

- **Use Case of User**



- View Rooms – customer can view rooms under various categories.
- Book Available Room – customer can book room for specific days.
- Booking Details – customer can view his booking details and status of booking, booking history.
- Enquiry – customer can send enquiry with message.
- View Offers – customer can view offers and its description posted.

Project Design

4.1 Data Model

4.1.1 Database Design

- **User**

Field	Type	Null	Key	Default	Extra
user_id	int(11)	NO	PRI	NULL	Auto increment
first_name	varchar(100)	YES		NULL	
last_name	varchar(100)	YES		NULL	
email	varchar(100)	YES	UNI	NULL	
password	varchar(100)	YES		NULL	
idproof	int(11)	YES	MUL	1	
created_timestamp	timestamp	YES		CURRENT_TIMESTAMP	
gender	varchar(20)	YES		NULL	
role	varchar(20)	YES		NULL	
mobile	varchar(10)	YES		NULL	
address	varchar(100)	YES		NULL	
city	varchar(100)	YES		NULL	
state	varchar(100)	YES		NULL	
zipcode	varchar(06)	YES		NULL	

- **Booking**

Table: booking
Description: It is having booking details.

Field	Type	Null	Key	Default	Extra
booking_id	int(11)	NO	PRI	NULL	Auto increment
user_id	int(11)	YES	MUL	NULL	
room_id	int(11)	YES	MUL	NULL	
booking_date	timestamp	YES		CURRENT_TIMESTAMP	
check_in_date	date	YES		NULL	
check_out_date	date	YES		NULL	
remark	varchar(100)	YES		NULL	
status	varchar(50)	YES		Pending	
payment	varchar(50)	YES		Pending	

- **Rooms**

Field	Type	Null	Key	Default	Extra
room_id	int(11)	NO	PRI	NULL	Auto increment
category_id	int(11)	YES	MUL	1	
adult_count	int(11)	YES		NULL	
child_count	int(11)	YES		NULL	
price	int(11)	YES		NULL	
description	varchar(1000)	YES		NULL	
image	varchar(200)	YES		NULL	

- **Facility**

Table: facility
Description: This Table will maintain facility details.

Field	Type	Null	Key	Default	Extra
facility_id	int(11)	NO	PRI	NULL	Auto increment
Title	int(11)	YES		NULL	
description	int(11)	YES		NULL	

- **Category**

Table: room_category
Description: It contains List of room_category

Field	Type	Null	Key	Default	Extra
facility_id	int(11)	NO	PRI	NULL	Auto increment
Title	int(11)	YES		NULL	
description	int(11)	YES		NULL	

- **Room Facility**

Table: room_facility
Description: It contains List of room_facility

Field	Type	Null	Key	Default	Extra
room_id	int(11)	YES	MUL	NULL	
facility_id	int(11)	YES	MUL	NULL	

- **Enquiry**

Table: enquiry
Description: It contains List of enquiry

Field	Type	Null	Key	Default	Extra
enquiry_id	int(11)	NO	PRI	NULL	Auto increment
first_name	varchar(100)	YES		NULL	
last_name	varchar(100)	YES		NULL	
mobile_no	varchar(10)	YES		NULL	
email	varchar(50)	YES		NULL	
remark	varchar(500)	YES		NULL	

- **Id Proof**

Table: id_proof
Description: It contains list of id proofs

Field	Type	Null	Key	Default	Extra
Id	int(11)	NO	PRI	NULL	Auto increment
Type	varchar(100)	YES		NULL	

- **Offers**

Table: offers
Description: It contains List of offers

Field	Type	Null	Key	Default	Extra
offer_id	int(11)	NO	PRI	NULL	Auto increment
Title	varchar(100)	YES		NULL	
description	varchar(1000)	YES		NULL	
time_period	varchar(50)	YES		NULL	

- **Contact Us**

Table: contact_us
Description: It contains contact us details

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	Auto increment
title	varchar(100)	YES		NULL	
Mobile_no	varchar(10)	NO		NULL	
description	varchar(500)	YES		NULL	
email	varchar(50)	NO		NULL	

- **Process Model**

A software process model is a standardized format for following stages of

software developing.

- Planning
- Organizing
- Running a development project.

variations on a small number of basic models. We surveyed the important basic models, and tried how to choose between them.

We have to consider following constraints while building a software or any real-world project.

A (software/system) process model is a description of the sequence of

activities carried out in a software project, and the relative order of these

activities.

A process model provides a fixed generic framework that can be tailored to a

specific project. Project specific parameters will include: Size, (person-years),

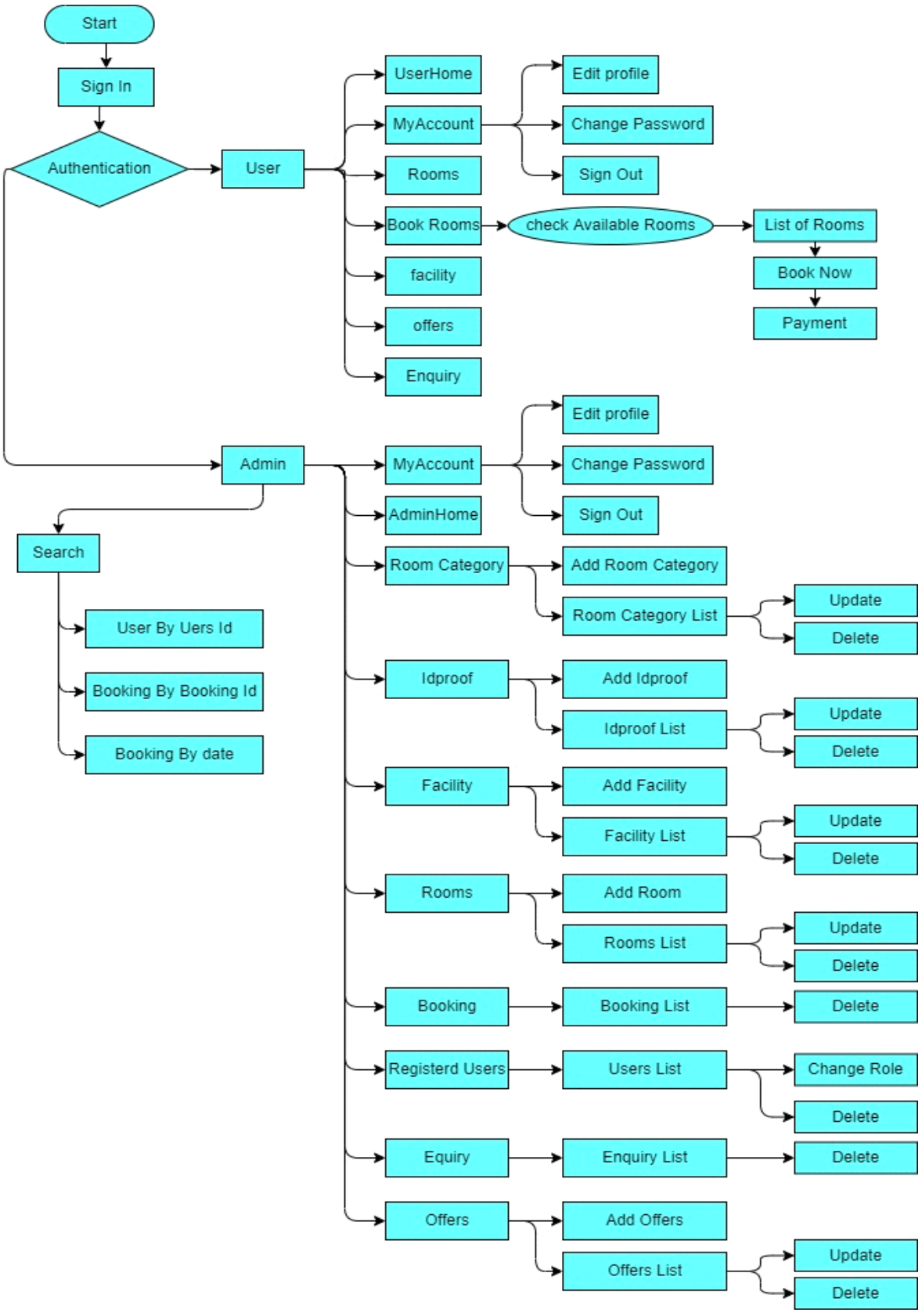
Budget, Duration.

Project Plan = Process Model + Project Parameters.

There are different types of basic process models are existed, in our project we used Waterfall Model as a process model.

The waterfall model is a breakdown of project activities into linear sequential phases, where each phase depends on the deliverables of the previous one and corresponds to a specialization of tasks.

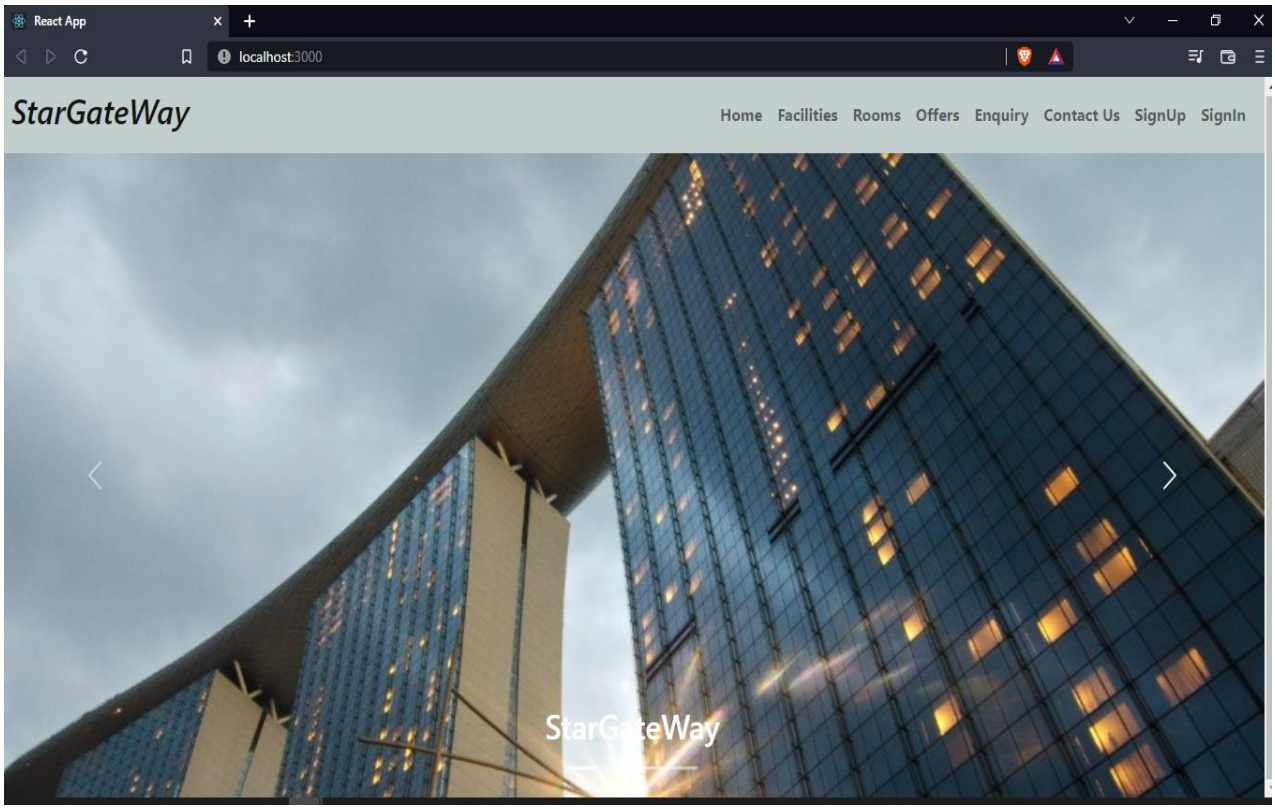
4.2.1 Data Flow Diagram (DFD)



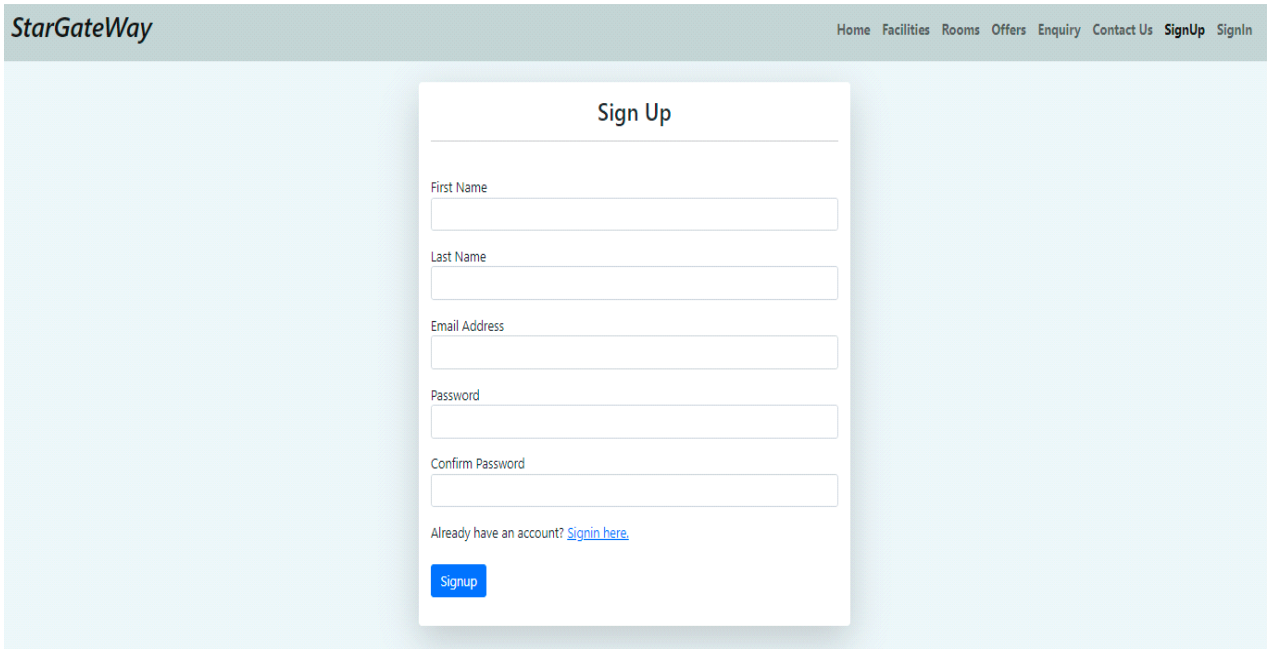
- **PROJECT RELATED STATISTICS**

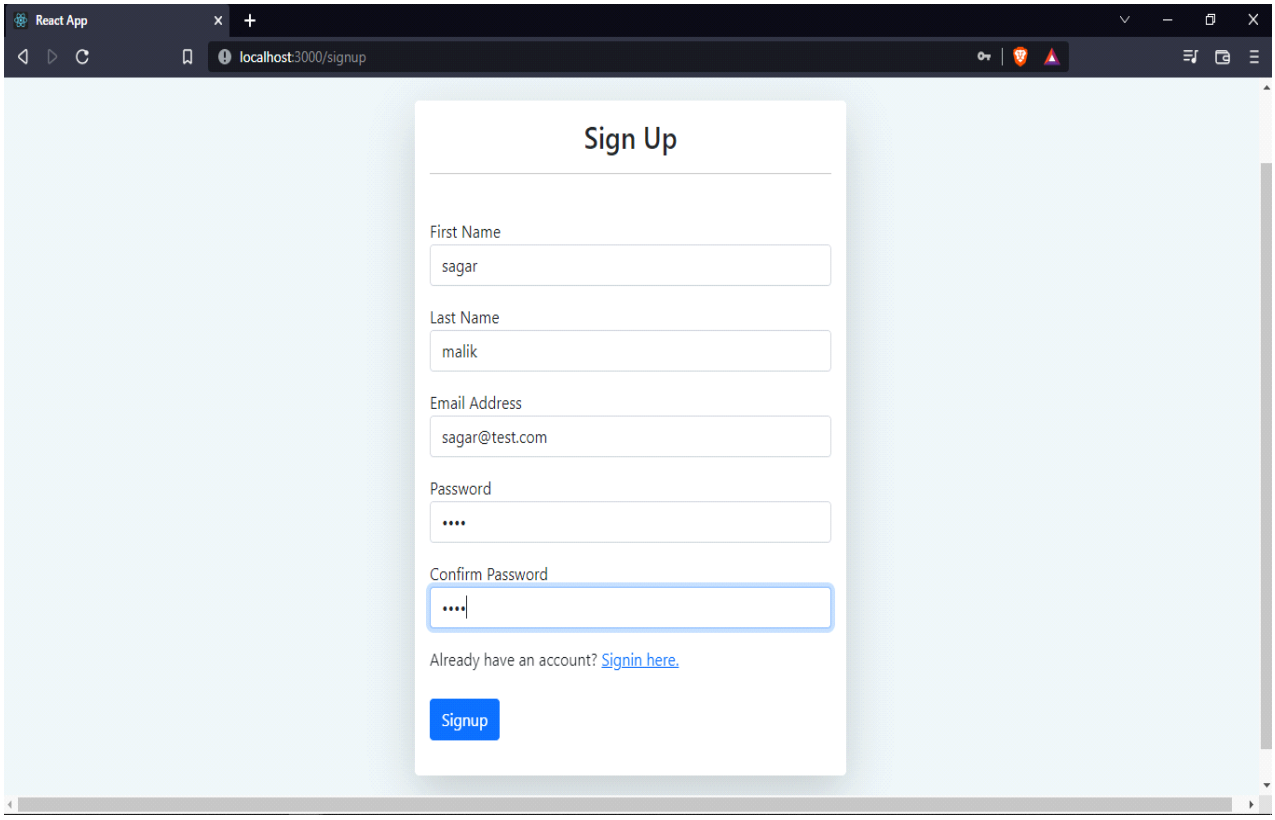
----Project related statistics shows what the realistic scenario of our project. It includes actual look and feel, functionality of the project. Following are some screenshots of our project that is Project management System.

Home Page:

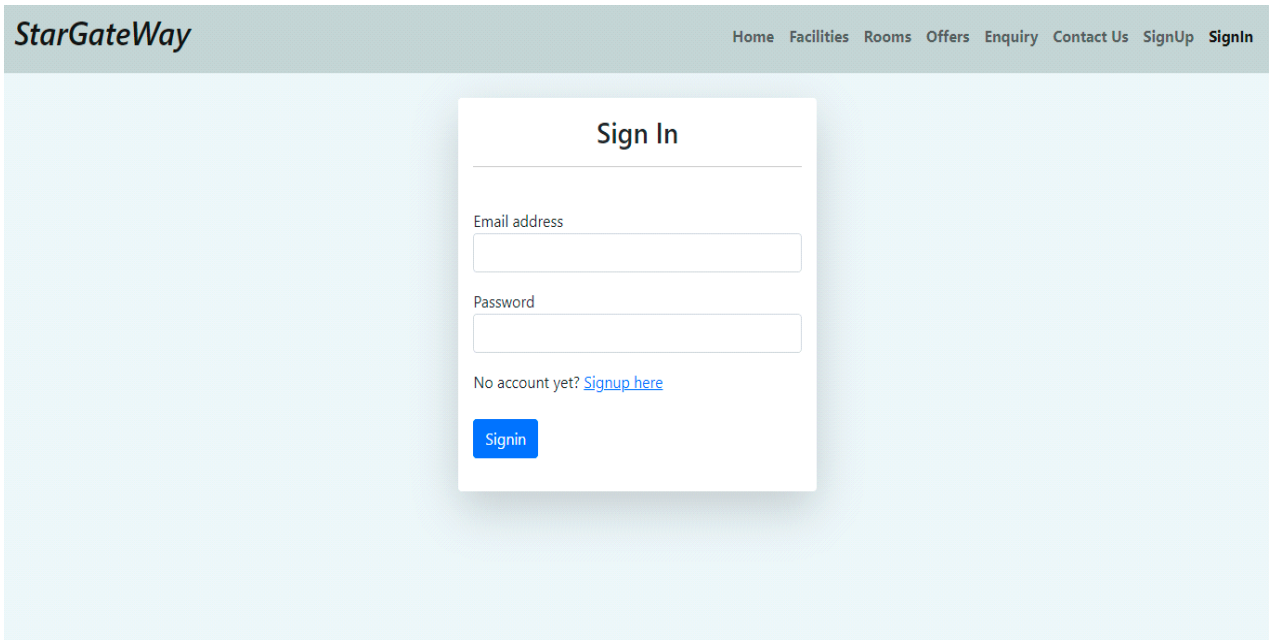


Sign Up:

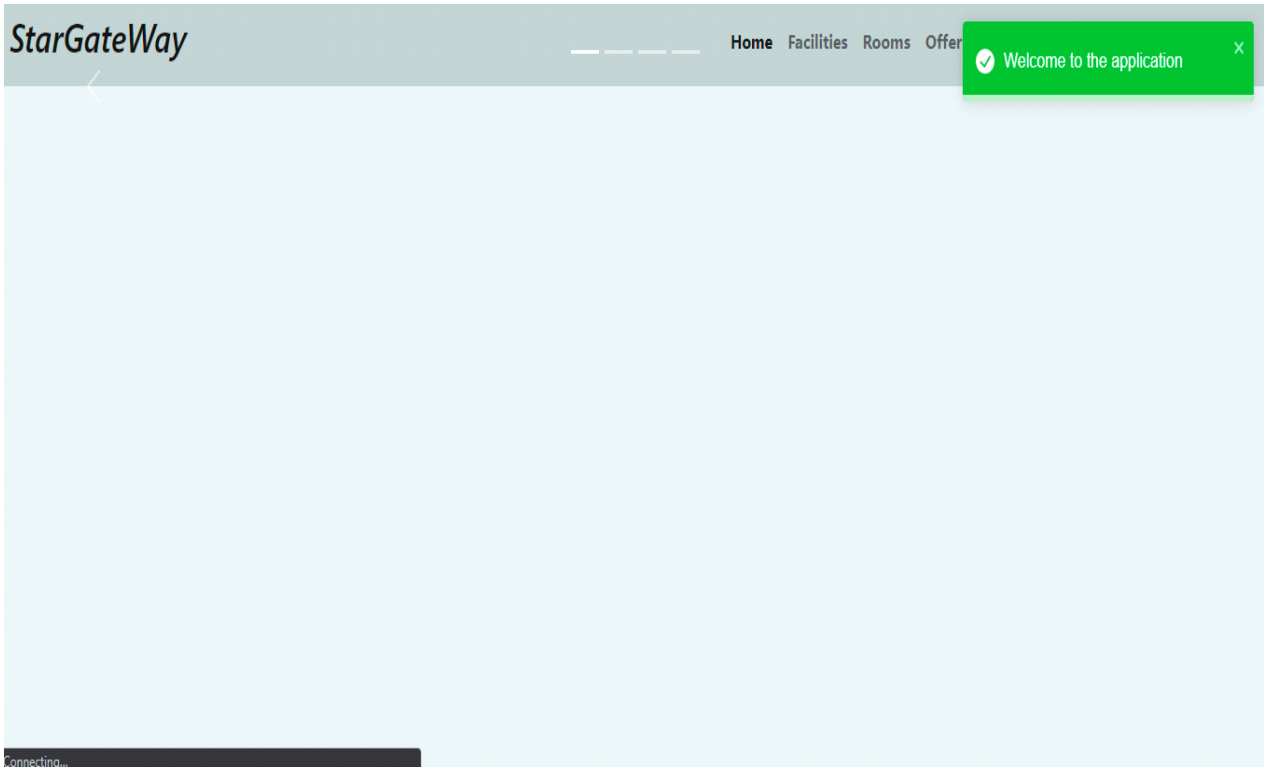

StarGateWay
Home Facilities Rooms Offers Enquiry Contact Us SignUp SignIn
Sign Up
First Name
Last Name
Email Address
Password
Confirm Password
Already have an account? Signin here.
Signup


React App
localhost:3000/signup
Sign Up
First Name
sagar
Last Name
malik
Email Address
sagar@test.com
Password
Confirm Password
Already have an account? Signin here.
Signup

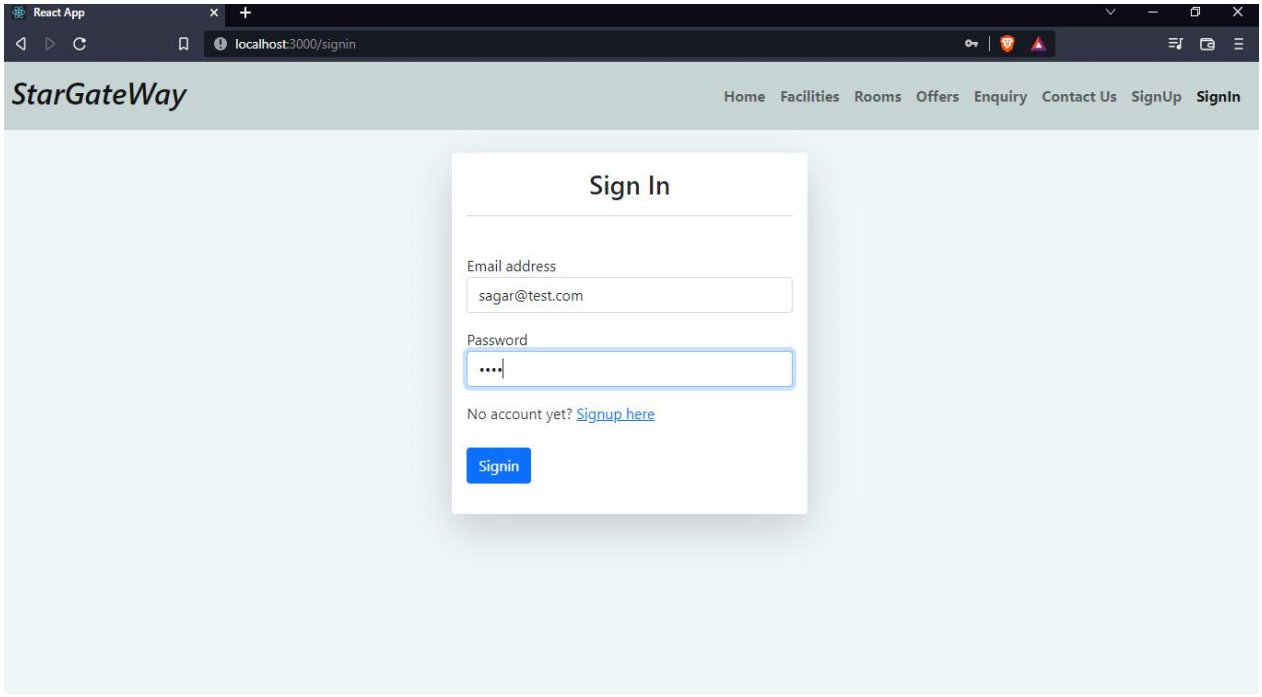
Sign In:



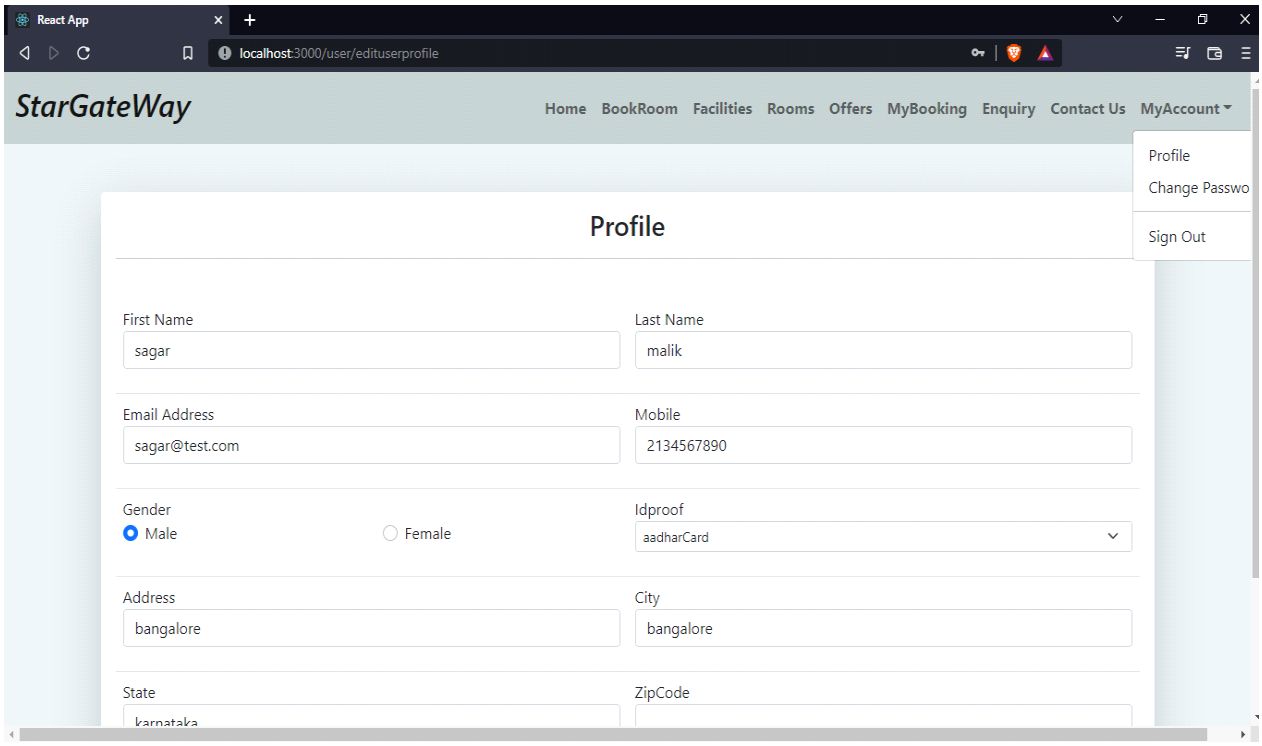
Sign In Toast Success:



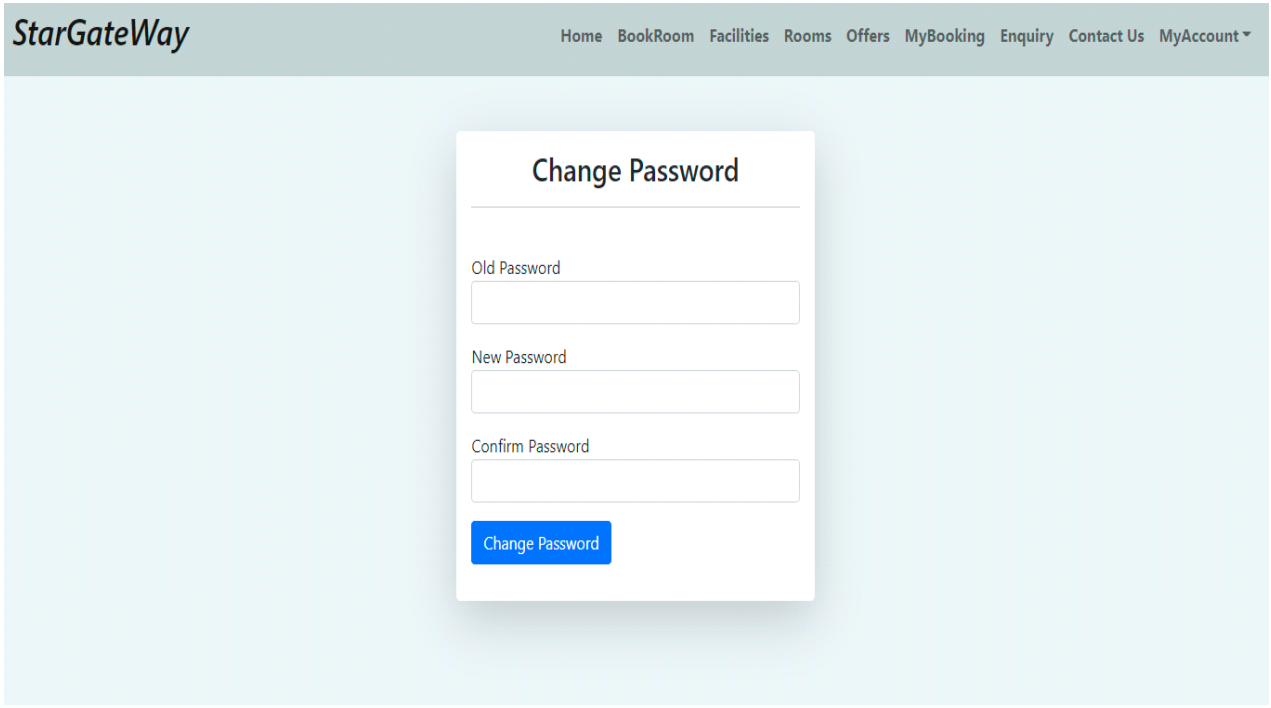
Sign In Toast Error:



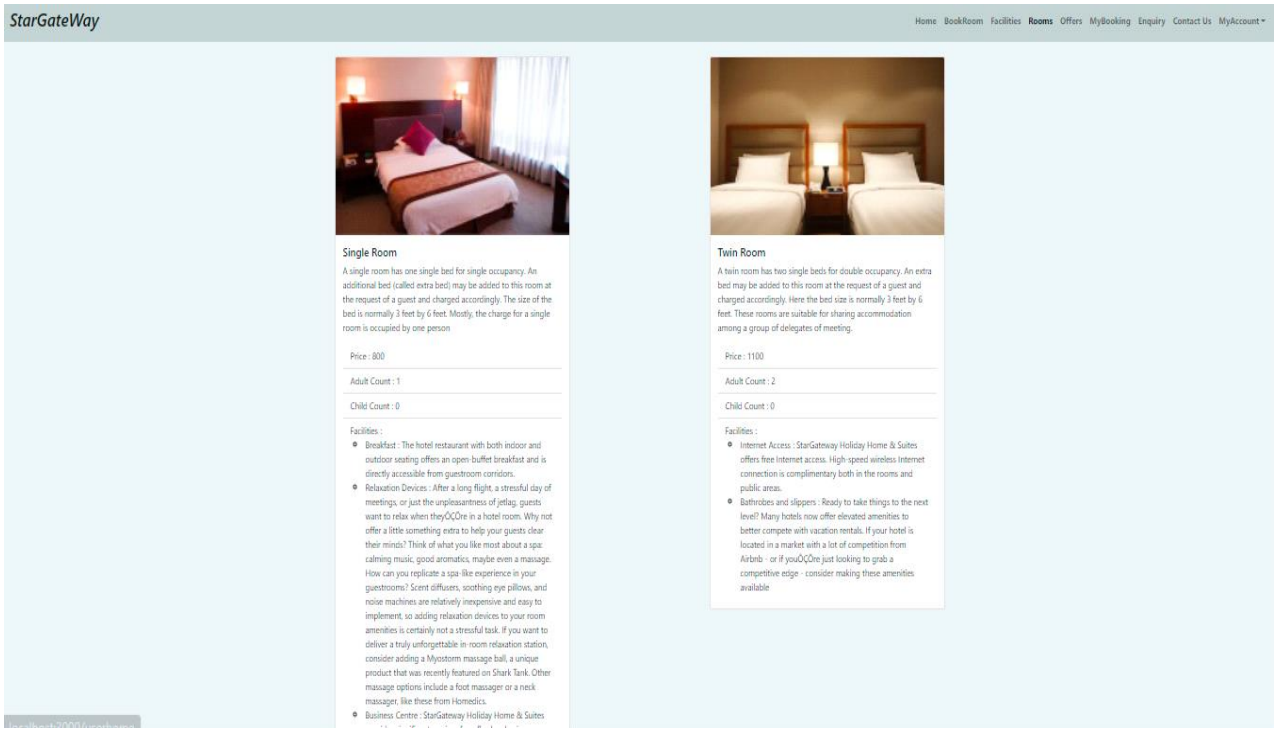
Edit Profile:



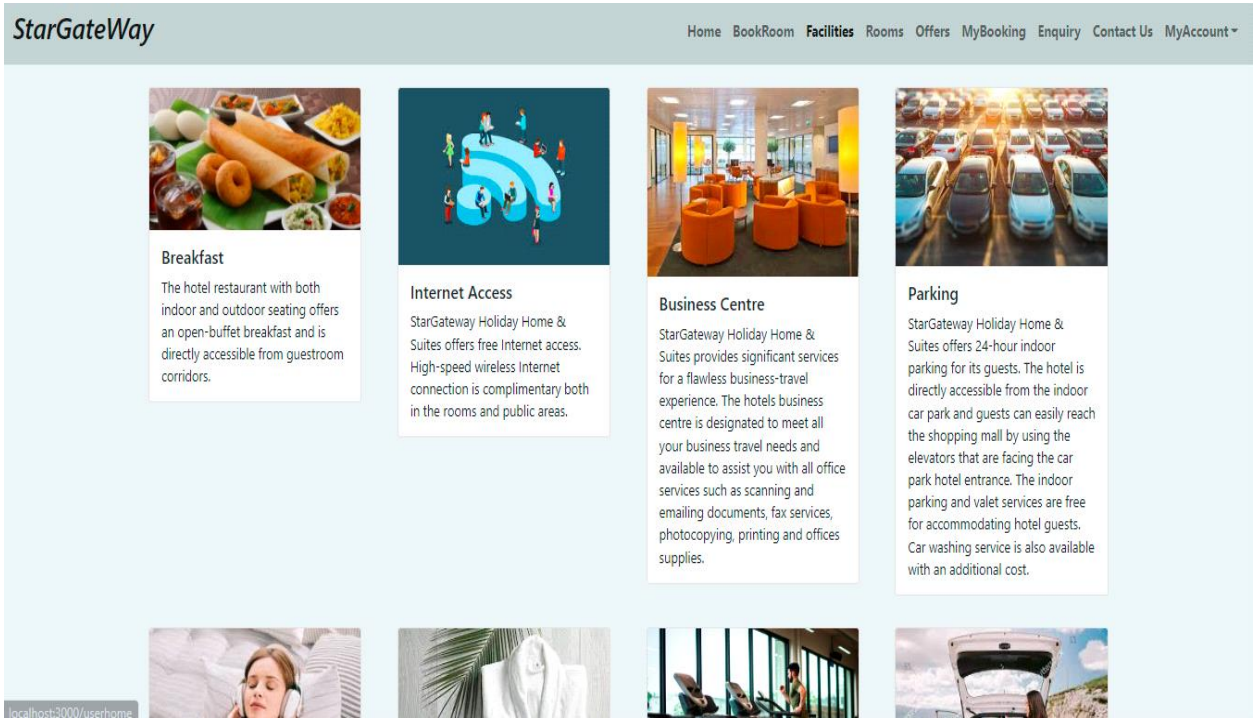
Change Password:



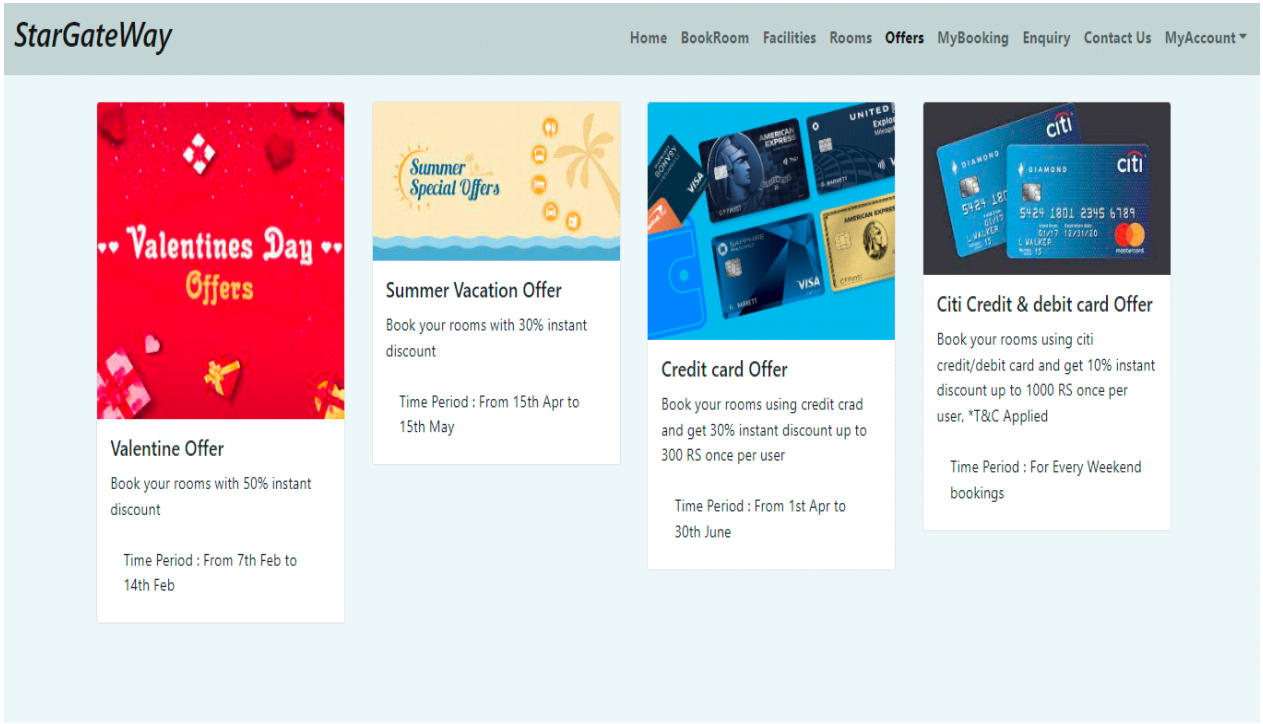
Rooms:



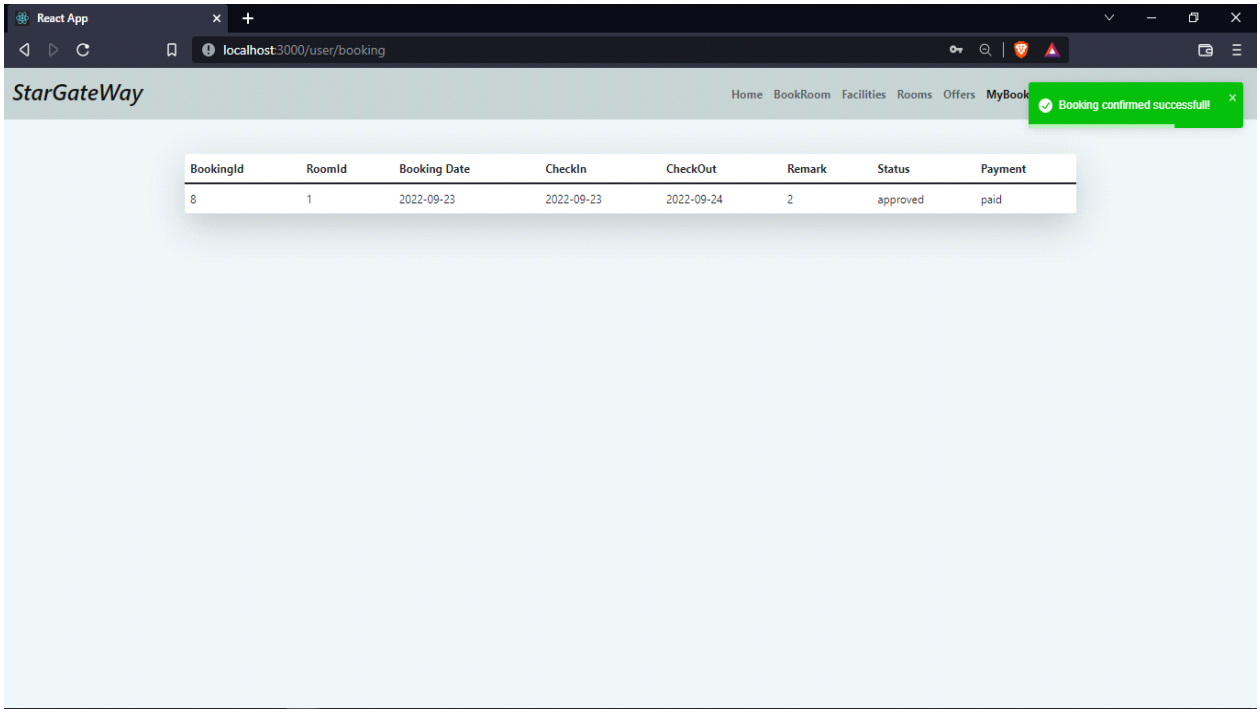
Facility:



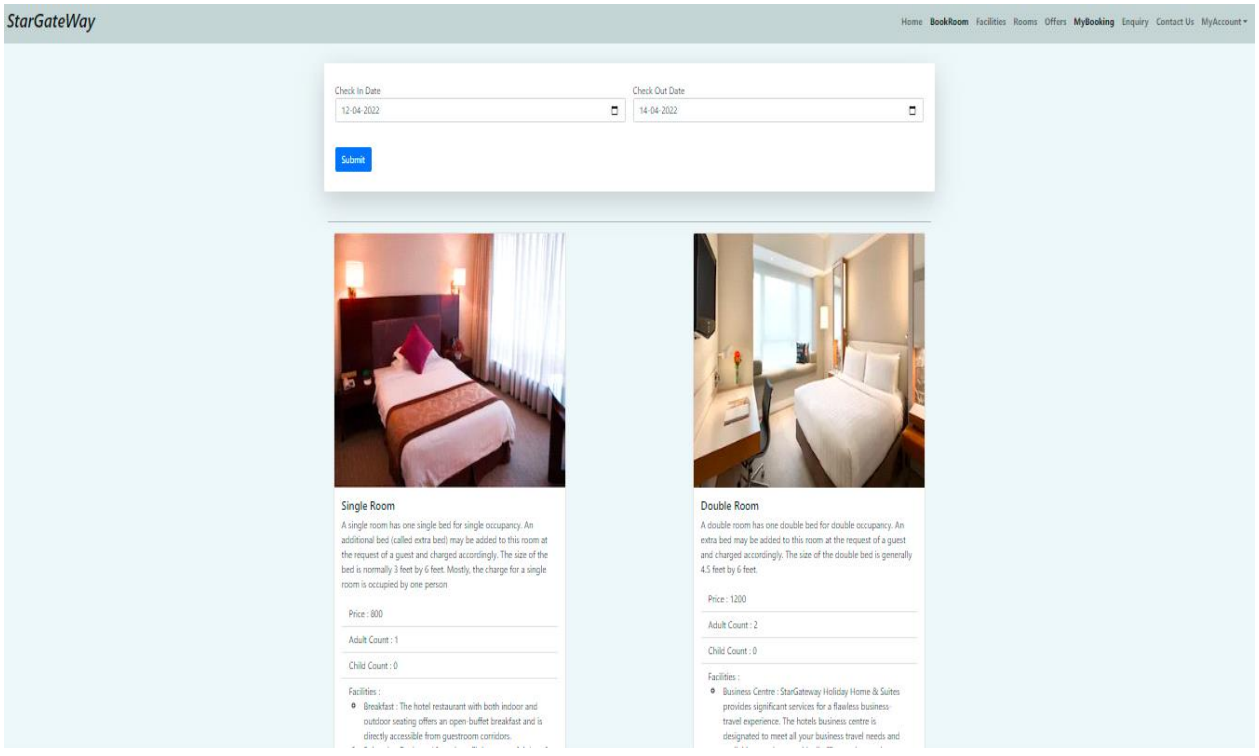
Offers:



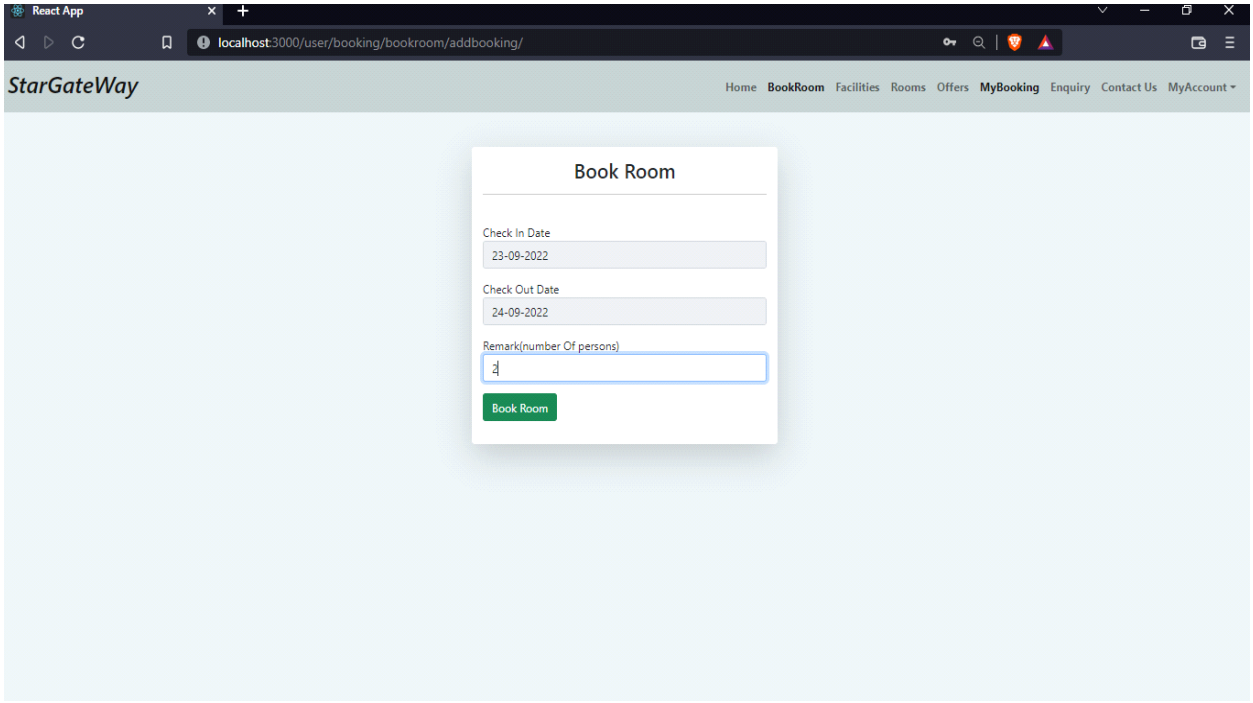
My Booking:



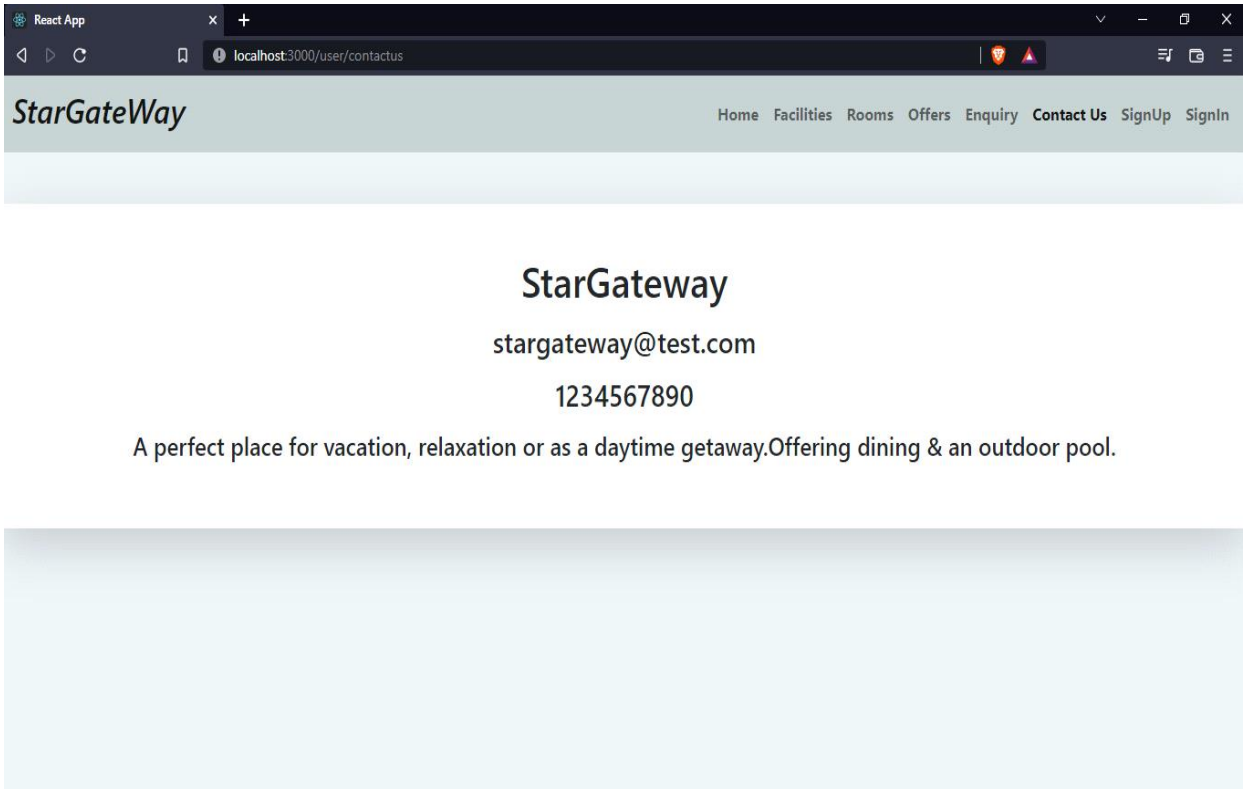
Available Room:



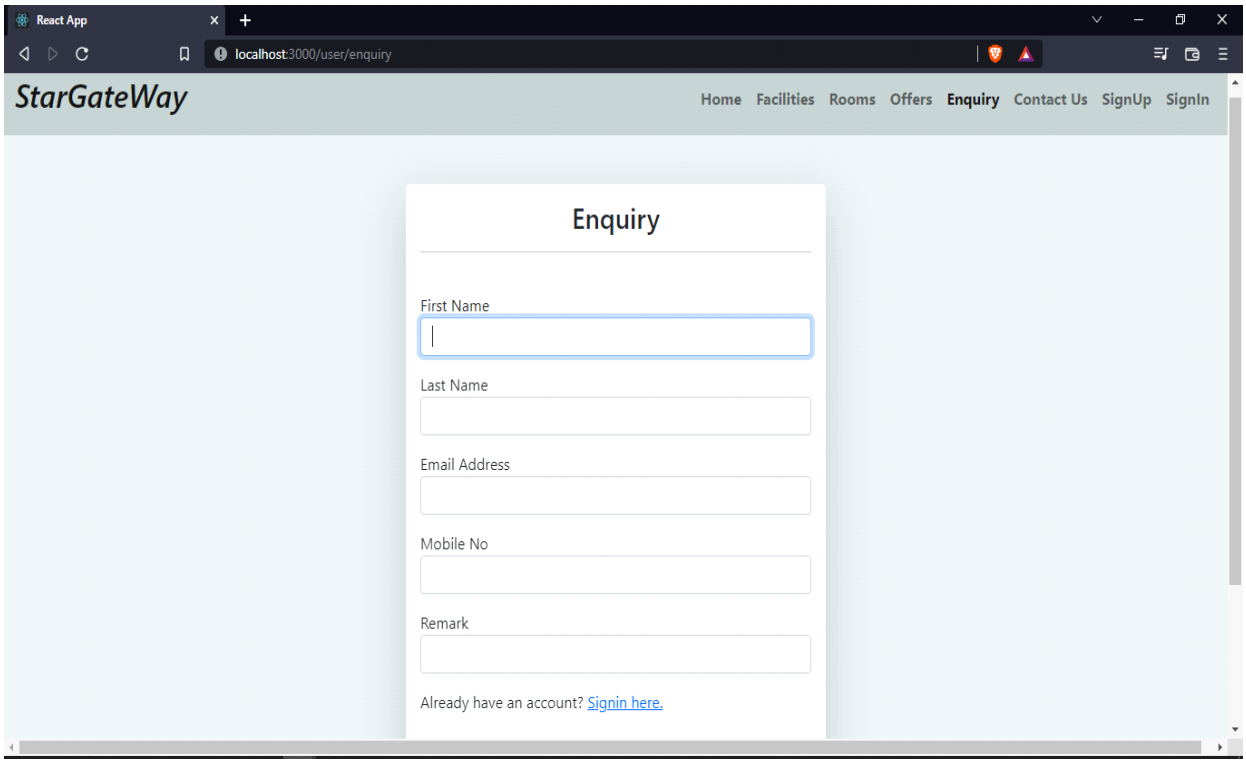
Book Room:



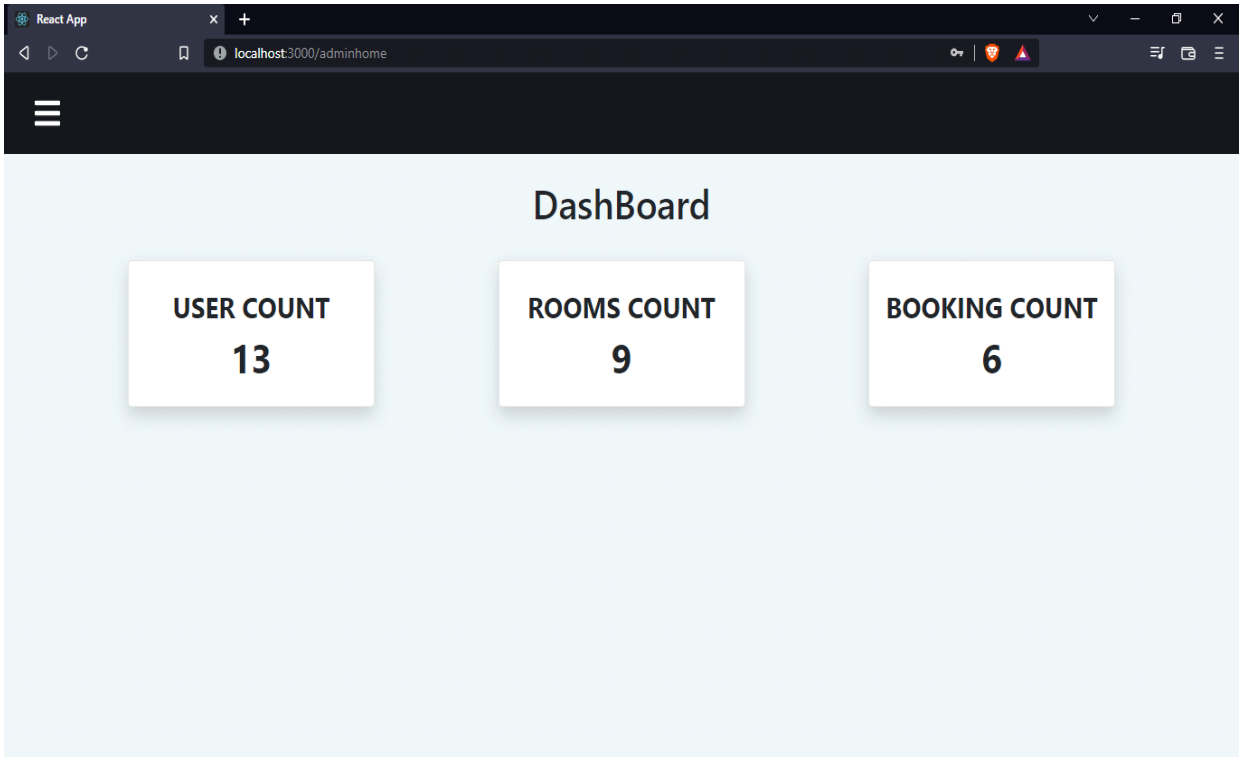
Contact Us:



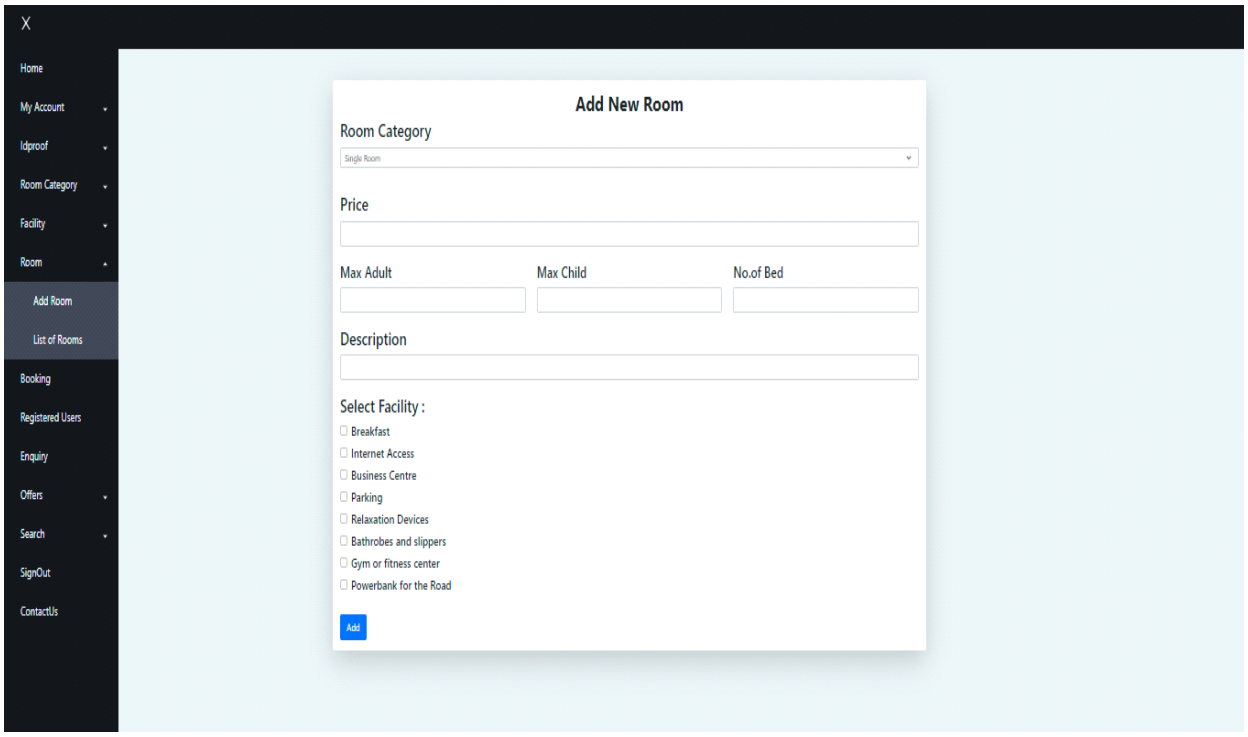
Enquiry:



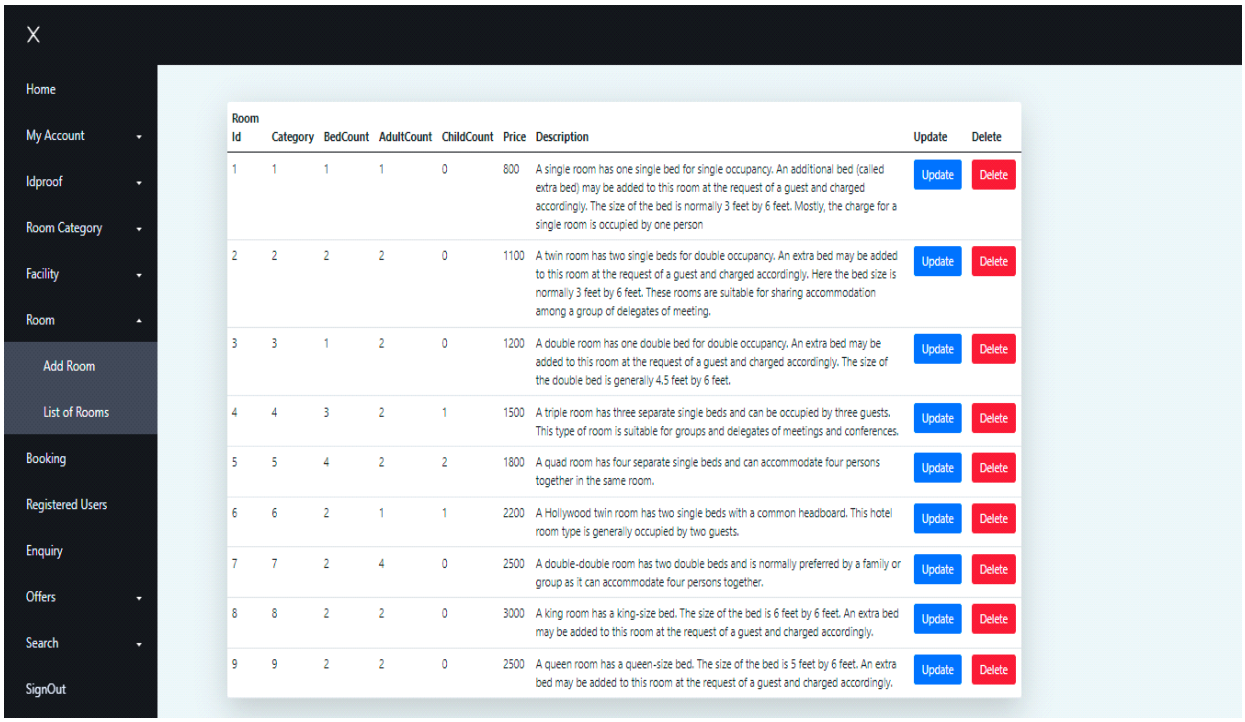
Admin Home:



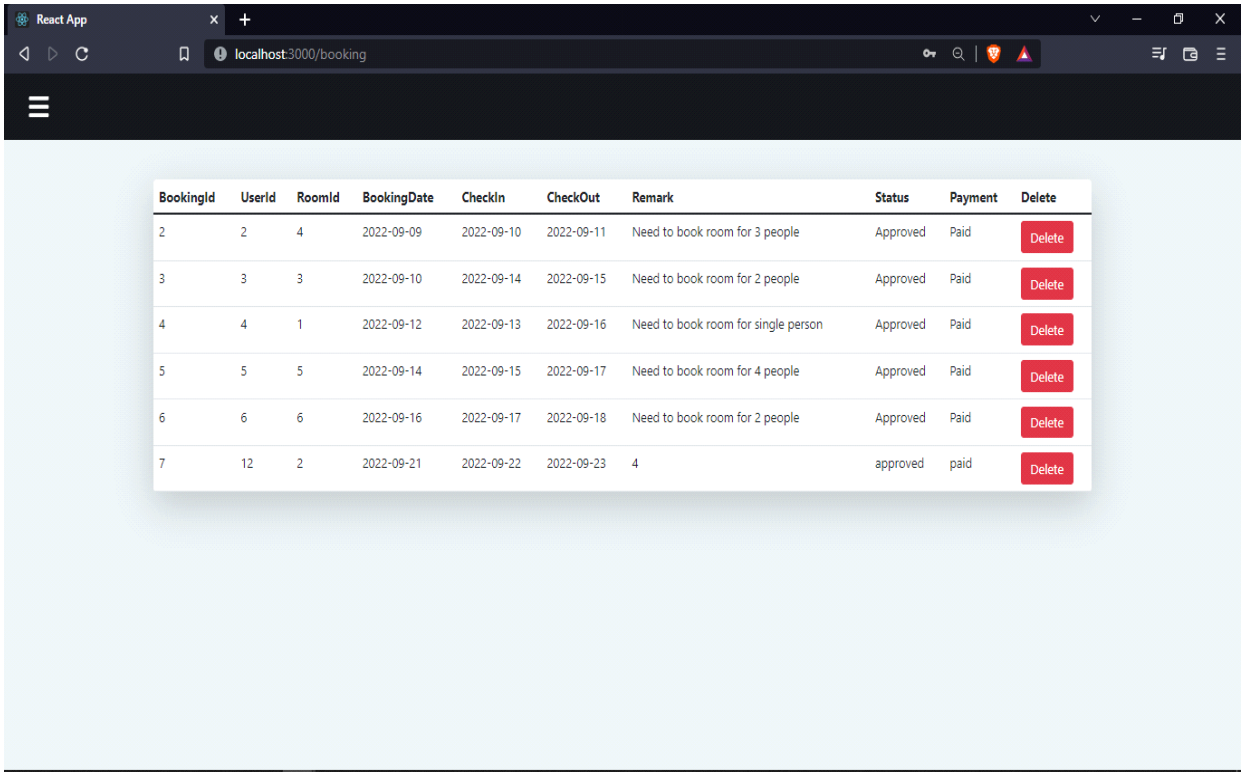
Add Room:



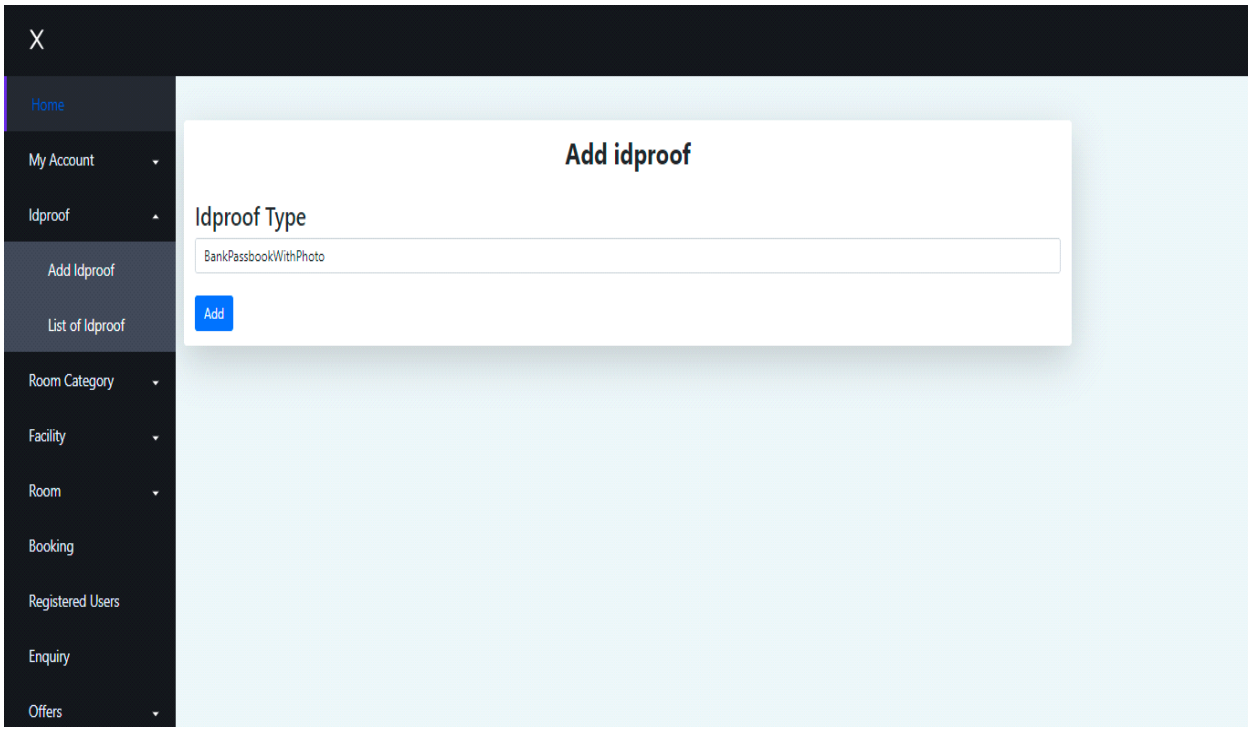
Room List :



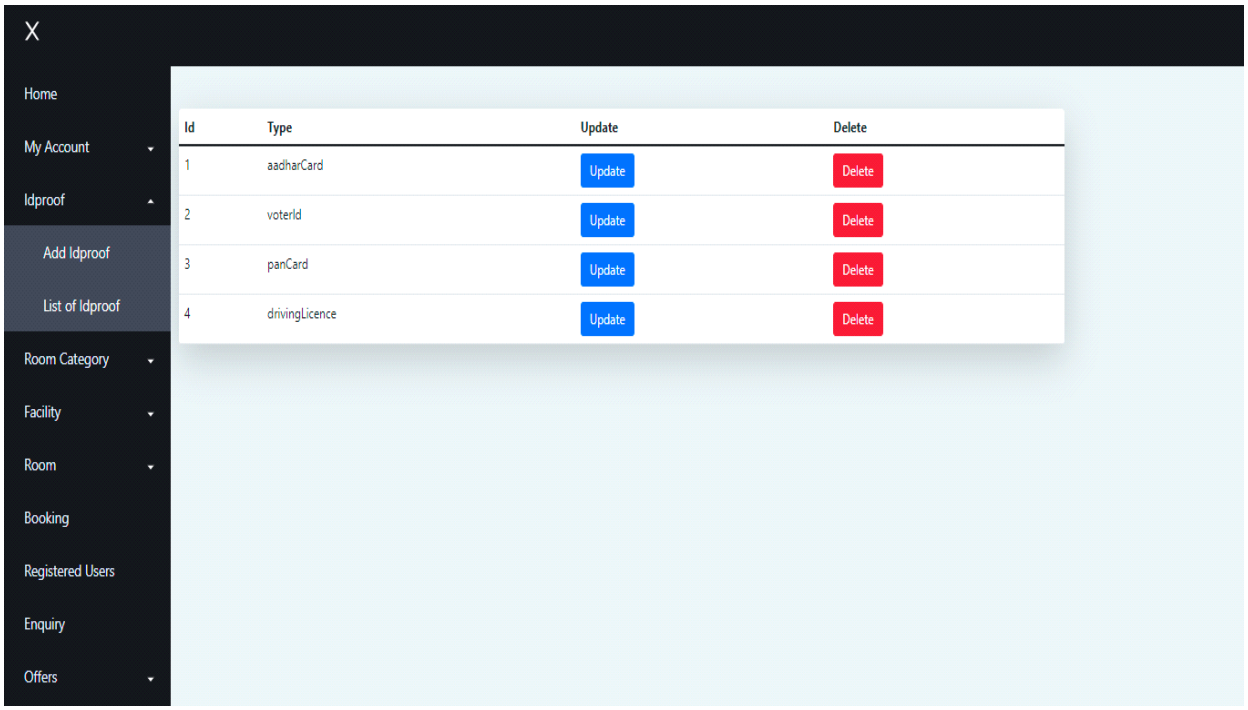
Booking List :



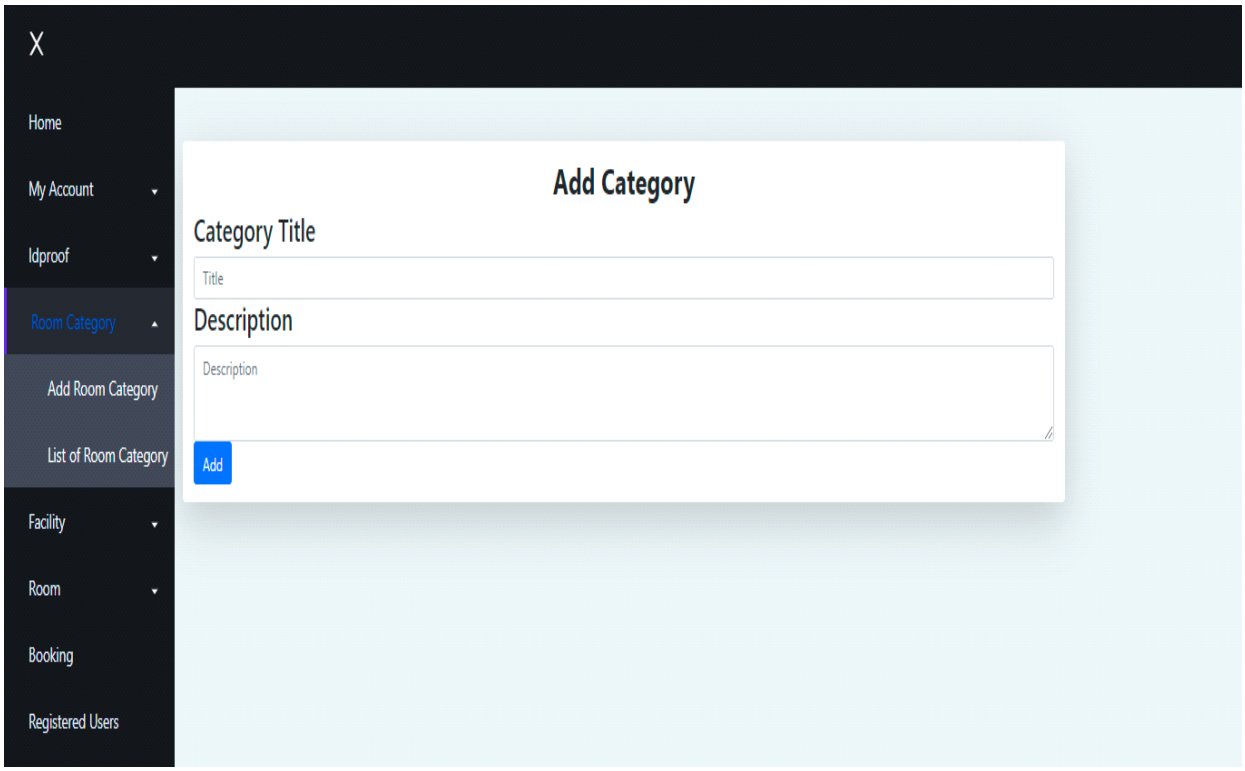
Add Idproof :



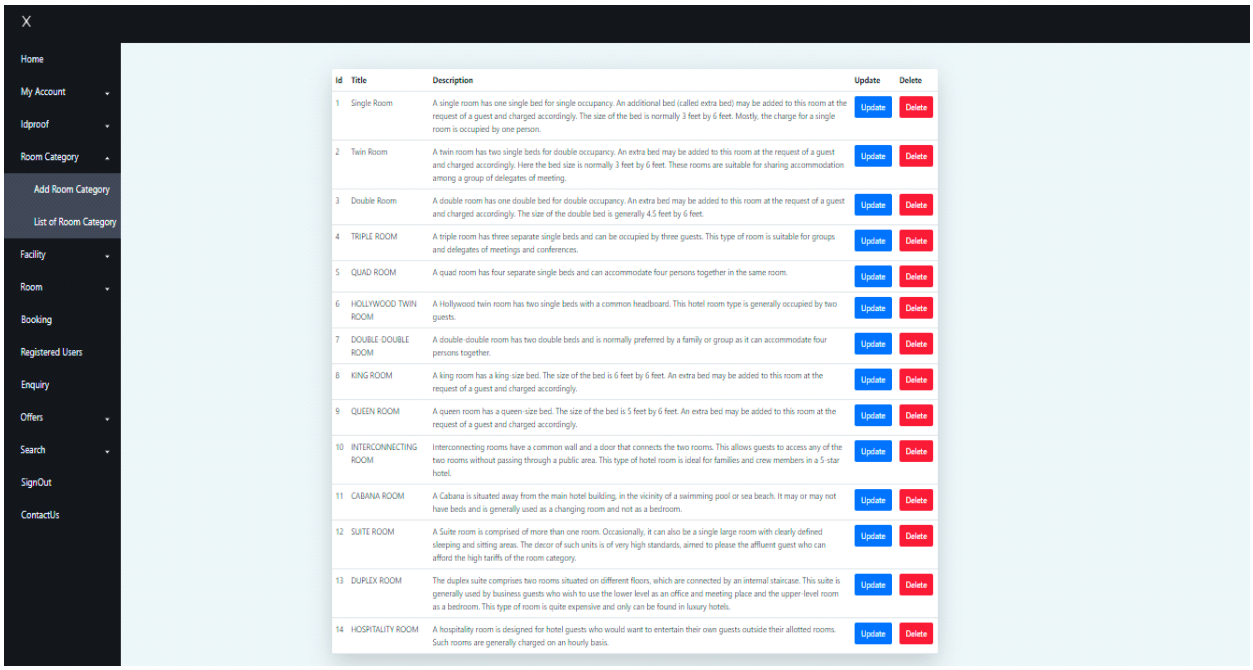
Idproof List :



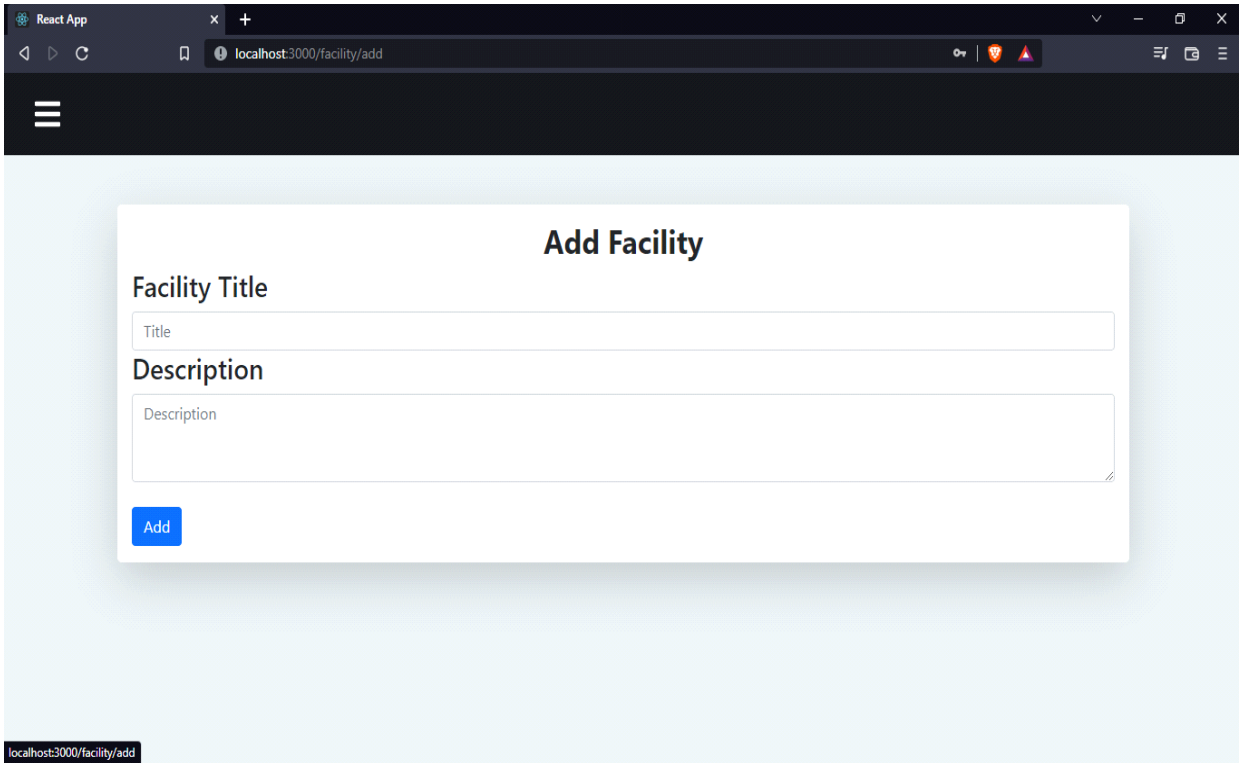
Add Room Category :



Room Category List :



Add Facility :



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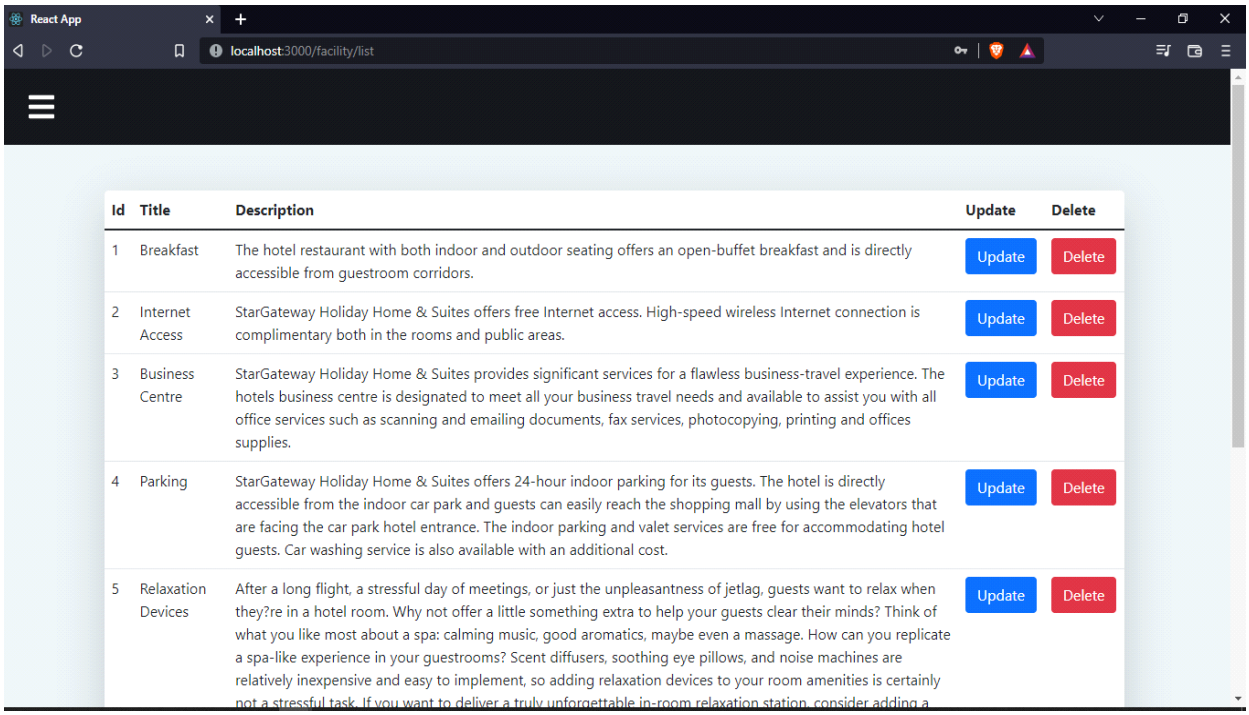

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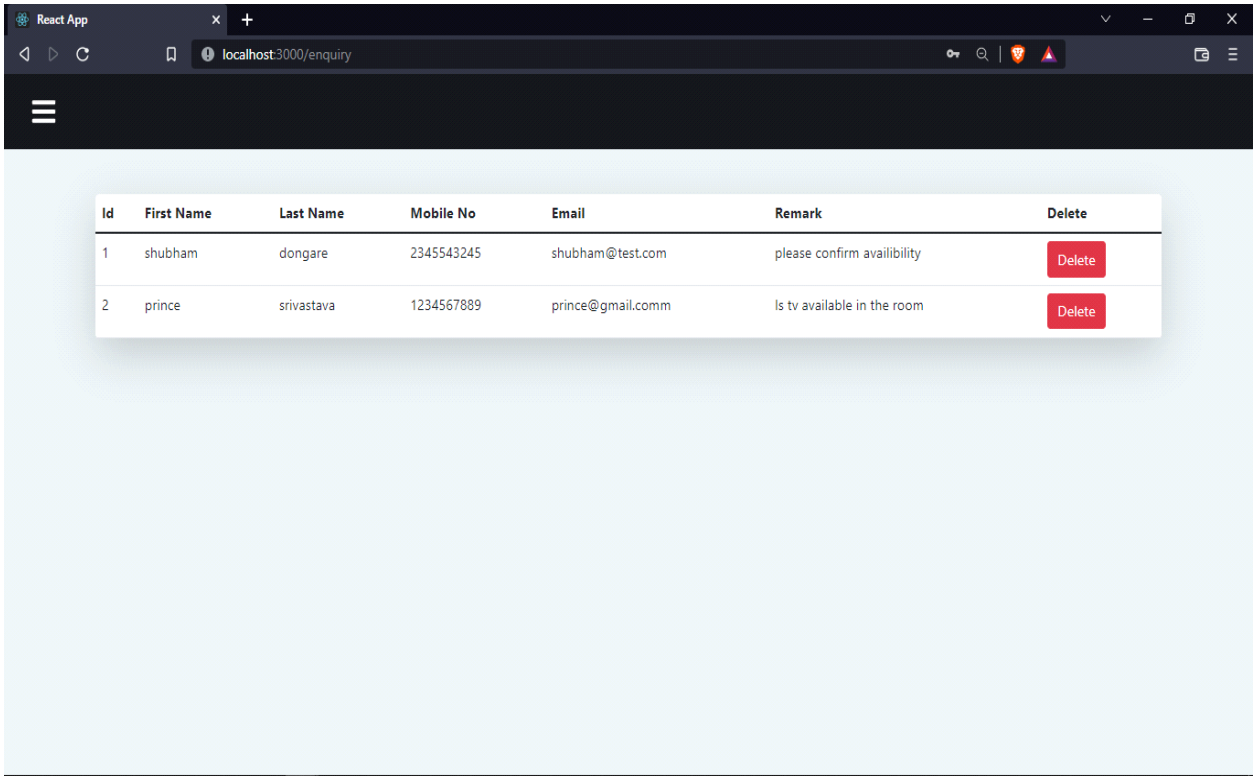

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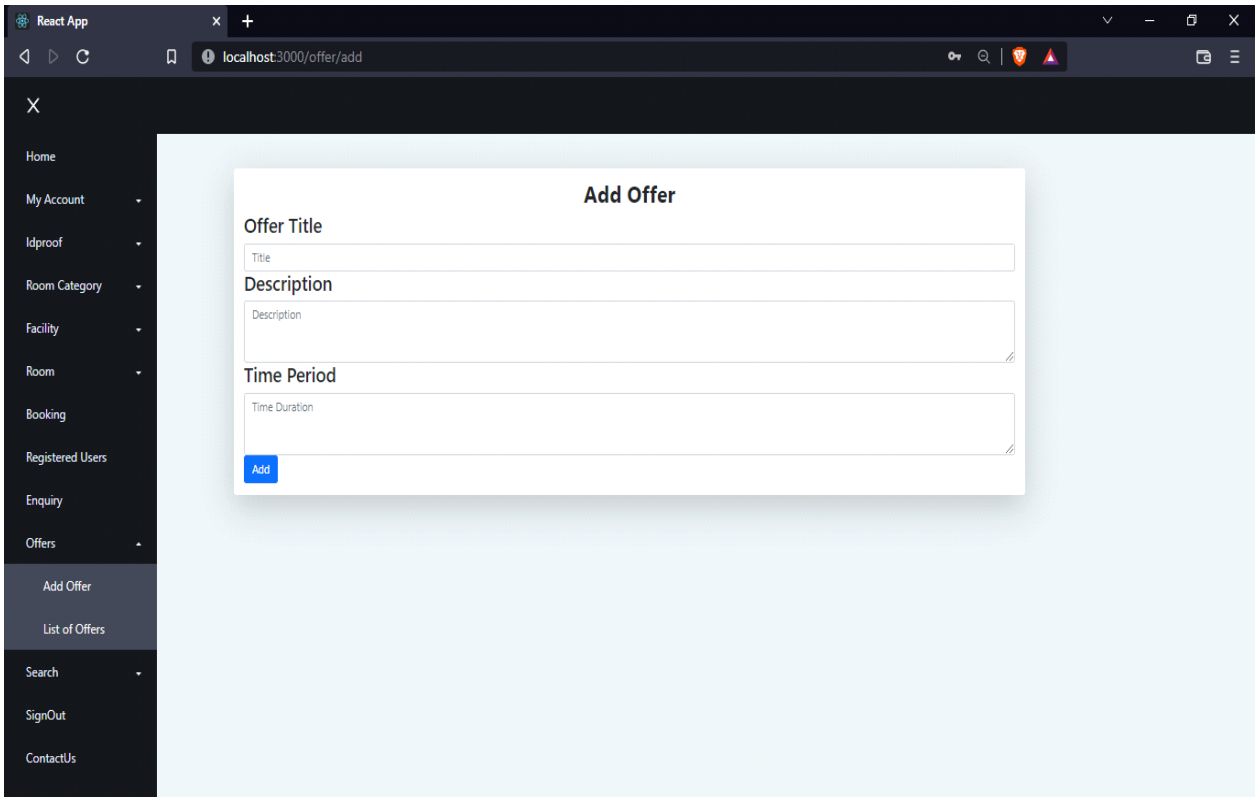

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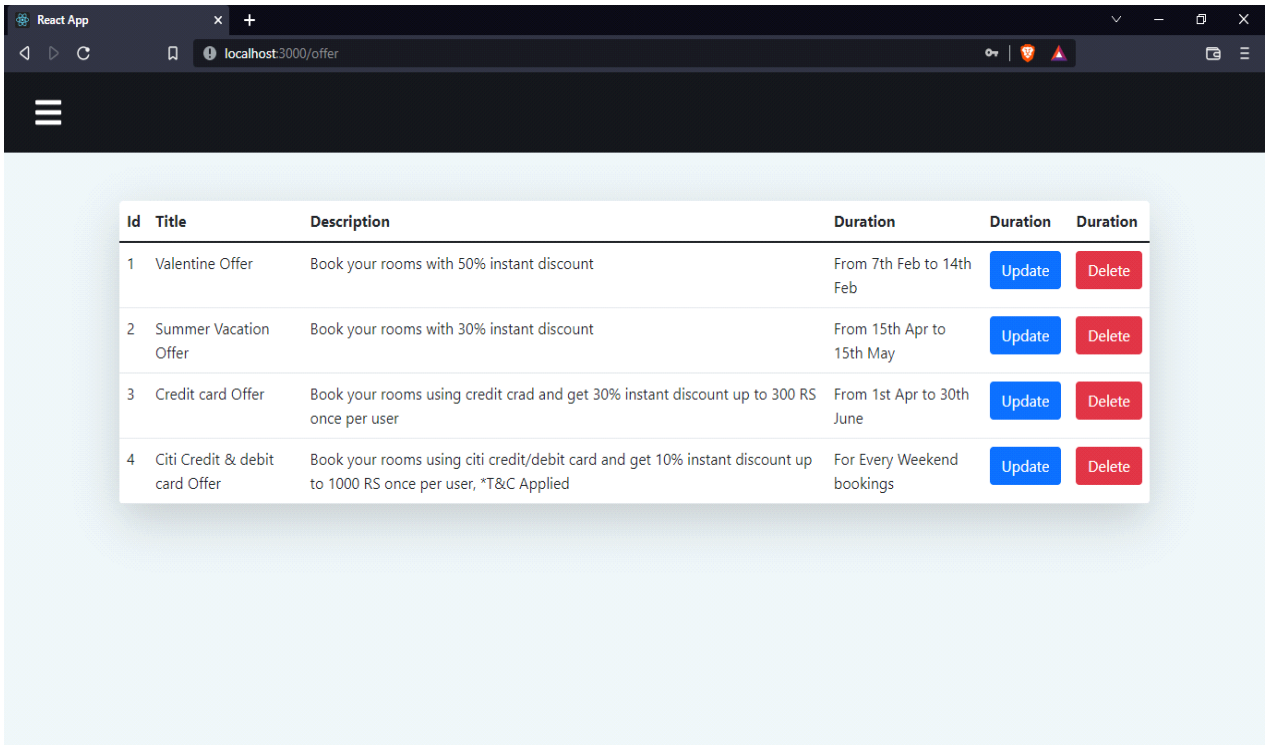

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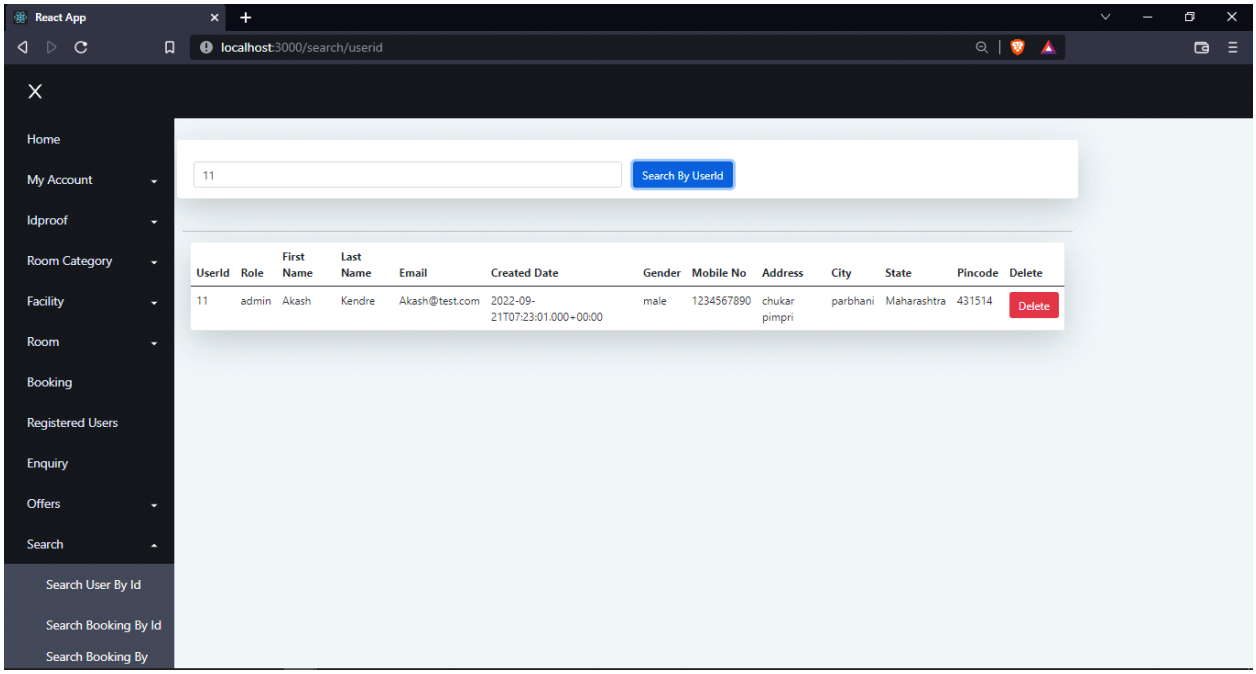

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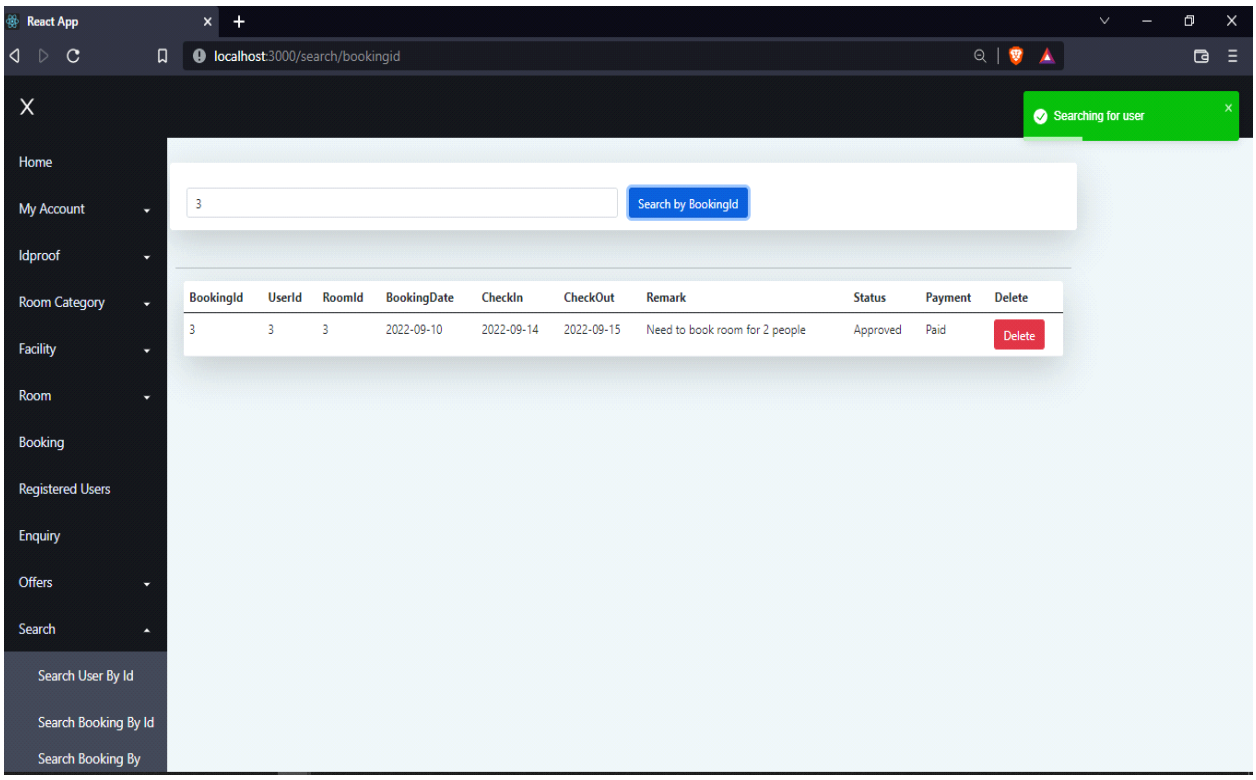

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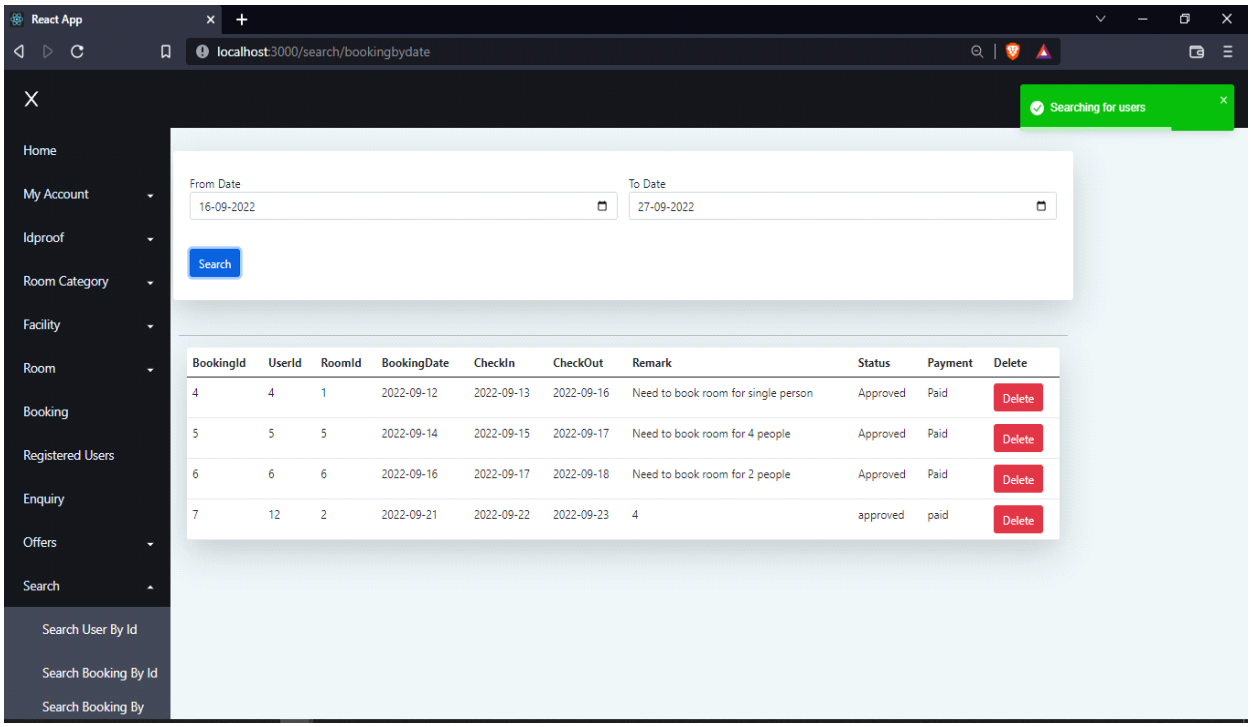
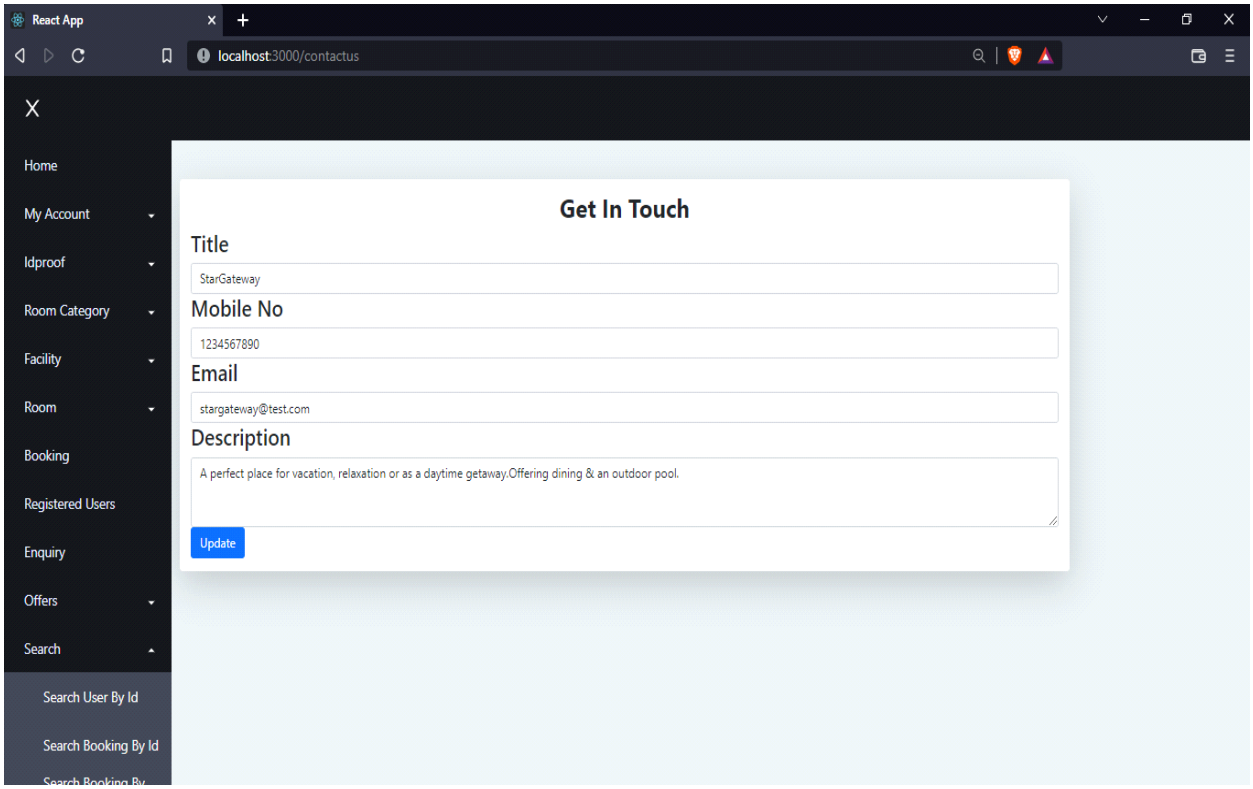


Edit Contact Us :



Thank you.