

Team Project - TechPro

Deliverable 5 – Development Phase 3

CSCE 5430 (Fall 2020)

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# 1. Requirements

## Development phase 1:

**UI - HOME PAGE-** The home page should contain everything the user is looking for in a quick glimpse. It has transitions which will walk the user through our hotel experience. When we scroll down in a home page, we see the types of rooms we offer including the elaboration of the kind of services our hotel provides. When we go to the very bottom of the home page, we see the user reviews which are posted to our website and a book option which navigates us to the booking page. We can see various options like explore, booking, rooms, my orders and about us.

**UI – REGISTRATION-** In the registration page we have to fill up the basic user contact details like the username email address phone number and address and click sign up where the user will be able to use his id from the next time while booking. In the registration page few fields have conditions for example when we consider a password must have at least one upper case letter and it should be 8 characters in minimum. The phone number accepts only 10 numbers and the zip code accepts only 5 numbers in total.

**UI - ABOUT & HOTEL OFFERINGS PAGE-** The about and hotel offerings page has the information about the hotel page and the contact details of the hotel and what type of services we offer.

**DATABASE CUSTOMER DATA LINKING –** We use MYSQL in the back end to store the user data in the tables. This data is linked through php and once we click the sign up or submit button in the registration page the data is stored in the respective tables in the back end. When the user logs in from the login page the data is fetched from the backend and verified if the user data is correct or not and then proceeds to login. The table name can be “customers” and the fields for the customers table are id, name, email and zip code.

## Development Phase 2:

**ORDER PAGE-** This page should have the orders that the customers had placed. When the customer logs in into his id under the orders page he has his placed orders.

**BOOKING PAGE:** Here to the customer the prices are displayed according to the number of rooms he booked here we added this function in the booking page. As we increase and decrease the number of rooms the price goes up and down accordingly. In the booking page we added the from and two tables.

**DATABASE UPDATION (ORDER CREATION):** When a customer finishes placing an order the database table is updated with the new order value. Customer ID is linked to his specific order table.

**CONFIRMATION PAGE:** Once the order is placed successfully, a message is displayed in this page to the customer saying that the order is placed successfully.

### **Development Phase 3 :**

**PAYMENT PAGE:** In this page the personal details and the card details are entered in the form by the user before the user makes the payments for the items in his cart and would receive a confirmation for his booking after a payment is successfully made.

**ORDER CANCELLATION:** Here the order in Orders page is validated and if it is in the future it has a cancellation option. Here the user has an option to cancel his order under any circumstances. The cancellation option is made available to the user near his order bookings page. After cancelling the order an order confirmation is sent to the user.

**CANCEL CONFIRMATION:** A page has to be displayed on click of the cancel button with a message that his order is cancelled. This page should also contain a link to the homepage.

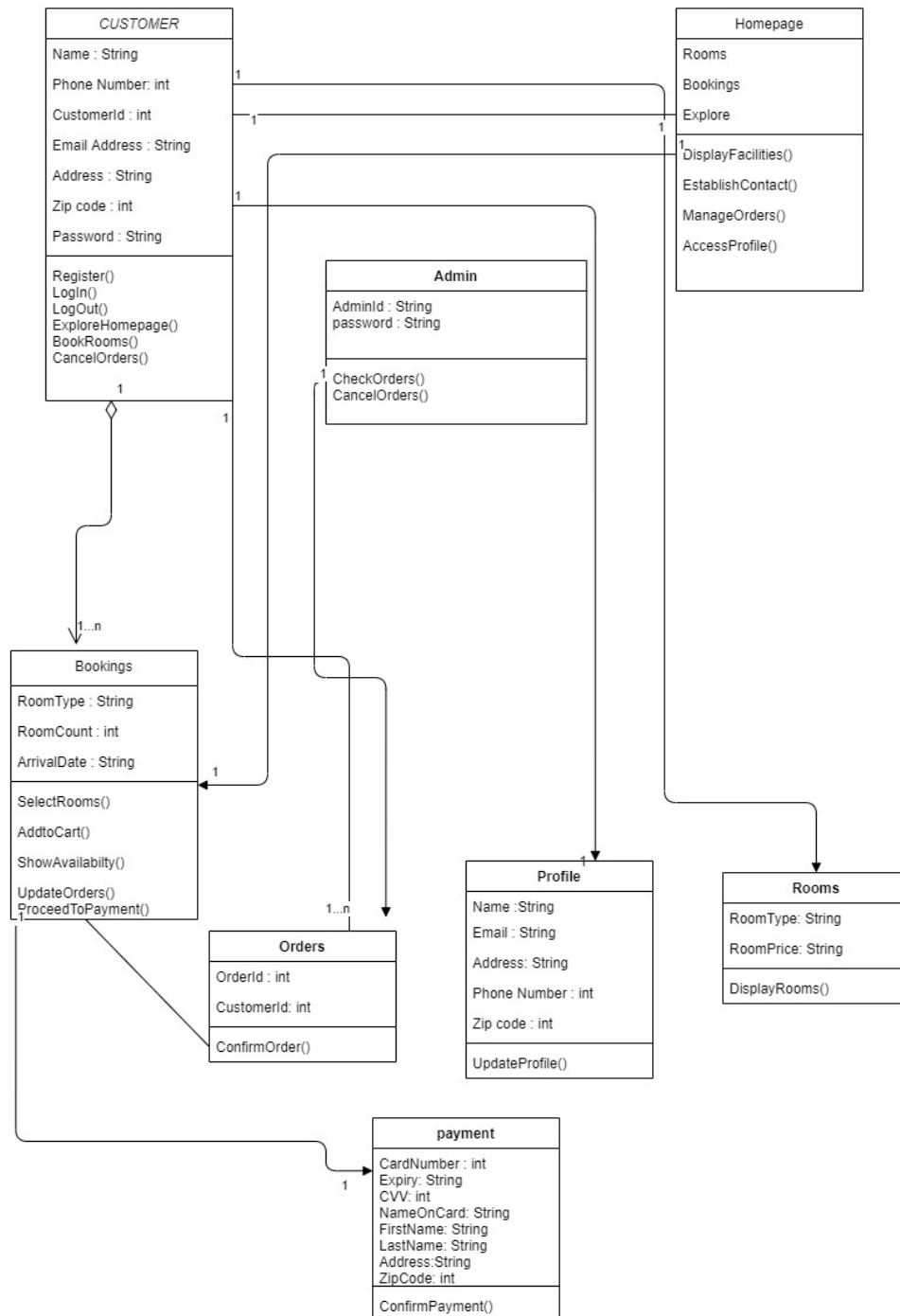
**ORDER CONFIRMATION:** A page has to be displayed on click of book with a message that his order has been booked. This page should also have a link to the homepage.

**PROMO CODES:** While booking user needs to apply coupon names as 'SAVE30' then the system validates the coupon and checks if the user has past bookings or it is his first booking. The first time a user gets a \$30 off on his order when he makes a booking. The user who signs up and books for the first time will get the offer

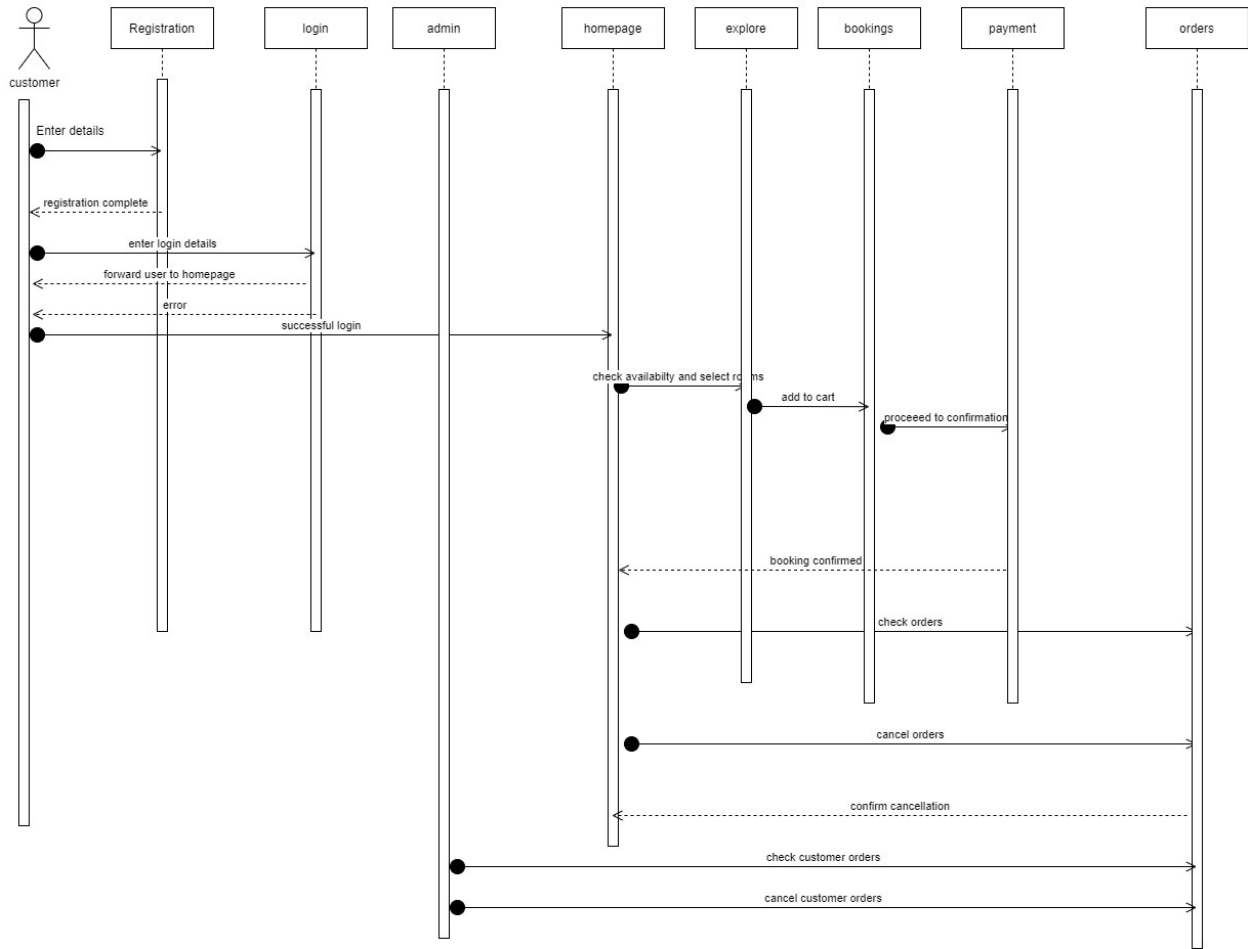
**ADMIN FUNCTION:** Here the admin has the function to access the database and then cancel the bookings from his end in case of any discrepancy. He has access to all the order details.

## 2. UML designs

### a. Class diagram:

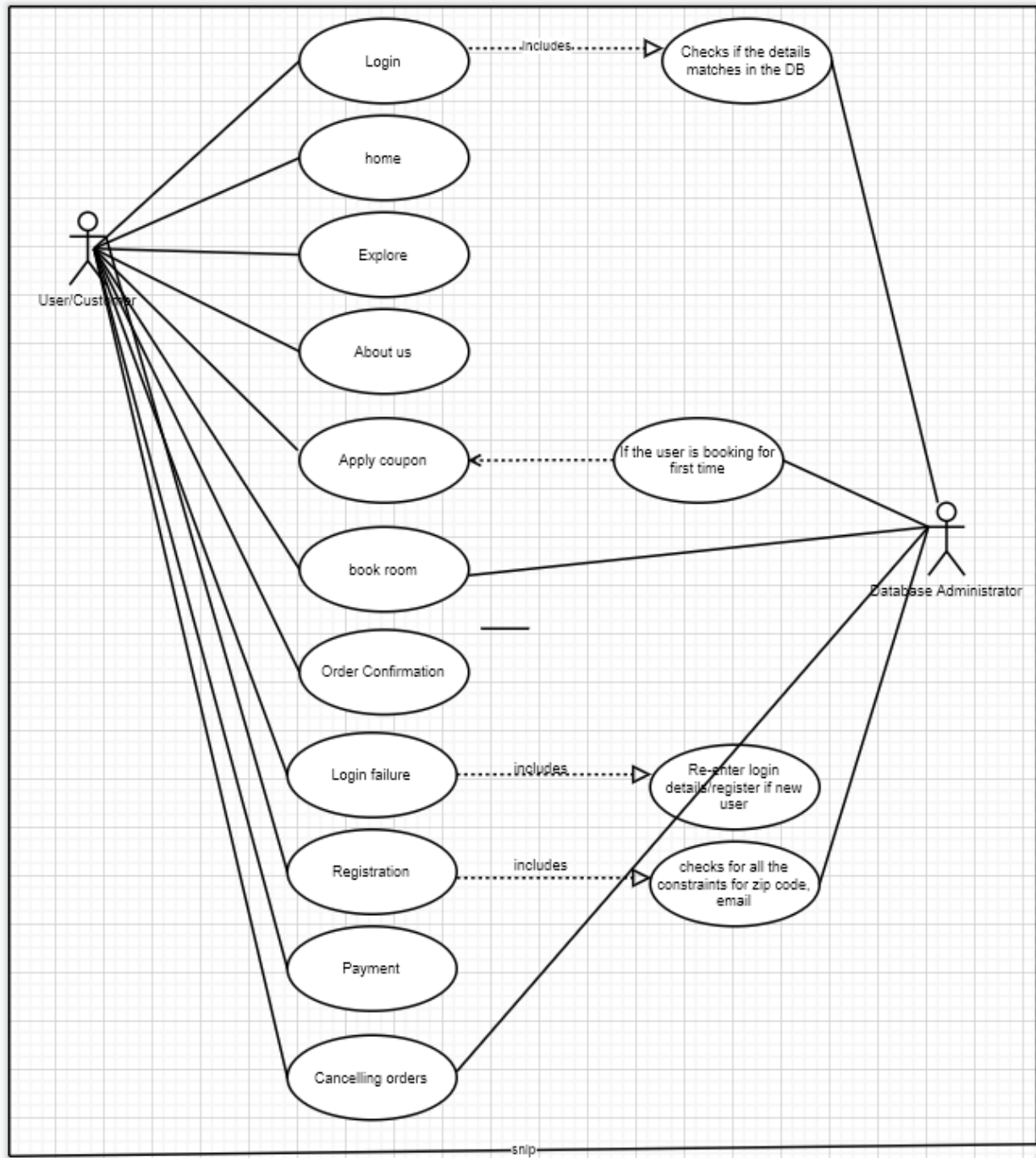


**b. Sequence diagram:** The below sequence diagram describes the way in which different operations are carried out in the project one after the other and in a sequential manner to avoid any congestion.



### c. Use case diagram

We have two actors, customer and admin, the user can perform actions like registration, login, home, explore, about us, apply coupon, book room, cancel room, paying for the order, and the admin for the website can perform actions to maintain the database, he has the right to cancel orders.



### 3. TEST CASES

#### Unit Tests

##### Usecase - Registration

###### *Test case 1:*

**Functionality:** Zipcode has to be exactly 5 digits, in this test case we are entering 3 digits for zipcode.

Step1: Enter all the required fields. Name, password, email, email, zip code.

Name: allen

Password: 12398abcd

Email: [abc@gm.com](mailto:abc@gm.com)

Zipcode: 567

Step 2: Click on register

**Expected result:** Error message “Please enter valid details”

**Actual result:** Error message “Please enter valid details”

**Success/Failure :** Success

###### *Test case 2:*

**Functionality:** password has to be more than 8 digits, in this test case we are entering less than 8 digits for password.

Step1: Enter all the required fields. Name, password, email, email, zip code.

Name: allen

Password: 12398

Email: [abc@gm.com](mailto:abc@gm.com)

Zipcode: 56776

Step 2: Click on register

**Expected result:** Error message “Please enter valid details”

**Actual result:** Error message “Please enter valid details”

**Success/Failure :** Success

###### *Test case 3:*

##### **Functionality:**

Step1: Enter all the required fields. Name, password, email, email, zip code.

Name: allen

Password: 12398

Email: [abc@gm.com](mailto:abc@gm.com)

Zipcode: 56767



Step 2: Click on register

**Expected result:** Enters the homepage

**Actual result:** Enters the homepage

**Success/Failure :** Success

### **Usecase - Login:**

#### ***Test case 1 :***

#### **Functionality:**

Step1: Enter username and password.

username:hem

password: Hemanth@77

**Expected result:** Enters the homepage

**Actual result:** Enters the homepage

**Success/Failure :** Success

#### ***Test case 2 :***

#### **Functionality:**

Step1: Enter username and password.

username:hem

password: Hemant@77

**Expected result:** Enters the same login page

**Actual result:** Enters the same login page

**Success/Failure :** Failure.

### **Usecase - Homepage**

#### ***Test case 1 :***

**Functionality:** Homepage has various buttons in it like the explore, book, my orders and about us. We are testing if on click of each button we are moving to the target page.

Step1: on click of the home button

**Expected result:** Stays on the same page.

**Actual result:** Stays on the same page

**Success/Failure :** success.

### **Usecase - Homepage**

#### ***Test case 2 :***

**Functionality: Homepage has various buttons in it like the explore, book, my orders and about us. We are testing if on click of each button we are moving to the target page.**

Step1: on click of the explore button

**Expected result:** Has to move to explore page.

**Actual result:** moves to the explore page.

**Success/Failure :** success.

### **Usecase - Homepage**

#### ***Test case 3 :***

**Functionality: Homepage has various buttons in it like the explore, book, my orders and about us. We are testing if on click of each button we are moving to the target page.**

Step1: on click of the my orders

**Expected result:** Has to move to my orders page. This page should have all the orders for that customers.

**Actual result:** Moves to the my orders page.

**Success/Failure :** success.

### **Usecase - Homepage**

#### ***Test case 4 :***

**Functionality: Homepage has various buttons in it like the explore, book, my orders and about us. We are testing if on click of each button we are moving to the target page.**

Step1: on click of the my about us.

**Expected result:** Has to move to about us page. **Actual result:** Moves to the about us page.

**Success/Failure:**success.

### **Usecase -Booking:**

#### ***Test case 1 :***

**Functionality: Displaying Total amount as per the rooms and dates selected.**

Step1: Select Room ,number of rooms ,arrival and Departure dates

Rooms: Luxury Suite

Number of rooms: 1

Arrival Date: 2020/11/27

Departure Date: 2020/11/28

**Expected result:** Total amount should be displayed as \$300

**Actual result:** Total amount should be displayed as \$300

**Success/Failure :** Success

***Test case 2 :***

**Functionality: Displaying Total amount as per the rooms and dates selected.**

Step1: Select Room ,number of rooms ,arrival and Departure dates

Rooms: Deluxe Room

Number of rooms: 2

Arrival Date: 2020/11/27

Departure Date: 2020/11/28

**Expected result:** Total amount should be displayed as \$45

**Actual result:** Total amount should be displayed as \$45

**Success/Failure :** Success

***Test case 3 :***

**Functionality: Validating Promo code and Deducting \$30 in the Total amount.**

Step1: Enter Promo Code Details

Rooms: Luxury Suite

Number of rooms: 2

Arrival Date: 2020/11/27

Departure Date: 2020/11/28

Promo code='first'

**Expected result:** Total amount should be displayed as \$15

**Actual result:** Total amount should be displayed as \$15

**Success/Failure :** Success

**Usecase- Orders Page:**

***Test case 1 :***

**Functionality: Displaying orders placed**

Step1: Check the orders that are placed.

**Expected result:** Displaying Orders that are placed.

**Actual result:** Displaying Orders that are placed.

**Success/Failure :** Success

***Test case 2 :***

**Functionality: Cancel the order**

Step1: Cancel the order by clicking on Cancel Booking.

**Expected result:** Cancel that particular Order and go to cancel Confirmation.

**Actual result:** Cancel that particular Order and go to cancel Confirmation.

**Success/Failure :** Success

**Usecase- Admin**

***Testcase1:***

**Functionality: Admin has his own credentials. He sees a different page from the customer when he login in.**

**Step1:** Enter user name and password

**Username:** hem

**password:** dfg

**Step2:** click on “login as admin”.

**Expected result:** Should enter the page with all the orders in it.

**Actual result:** Enter the page and he is seeing all the orders.

**Success/Failure:** Success

***Test case 2:***

**Functionality: Admin has his own credentials. He sees a different page from the customer when he login in.**

**Step1:** Enter user name and password

**Username:** hem

**password:** dfgg

**Step2:** click on “login as admin”.

**Expected result:** Should stay on the same page with a error message “enter valid details”.

**Actual result:** stays on the same page with a error message “enter valid details”.

**Success/Failure:** Success

***Test case 3 :***

**Functionality: Displaying all the orders placed**

Step1: Can see all the orders that are placed.

**Expected result:** Can access all the orders that are placed.

**Actual result:** Can access all the orders that are placed.

**Success/Failure :** Success

***Test case 4 :***

**Functionality: Cancel the order**

Step1: Cancel the order by clicking on Cancel Booking.

**Expected result:** Cancel that particular Order and go to cancel Confirmation.

**Actual result:** Cancel that particular Order and go to cancel Confirmation.

**Success/Failure :** Success

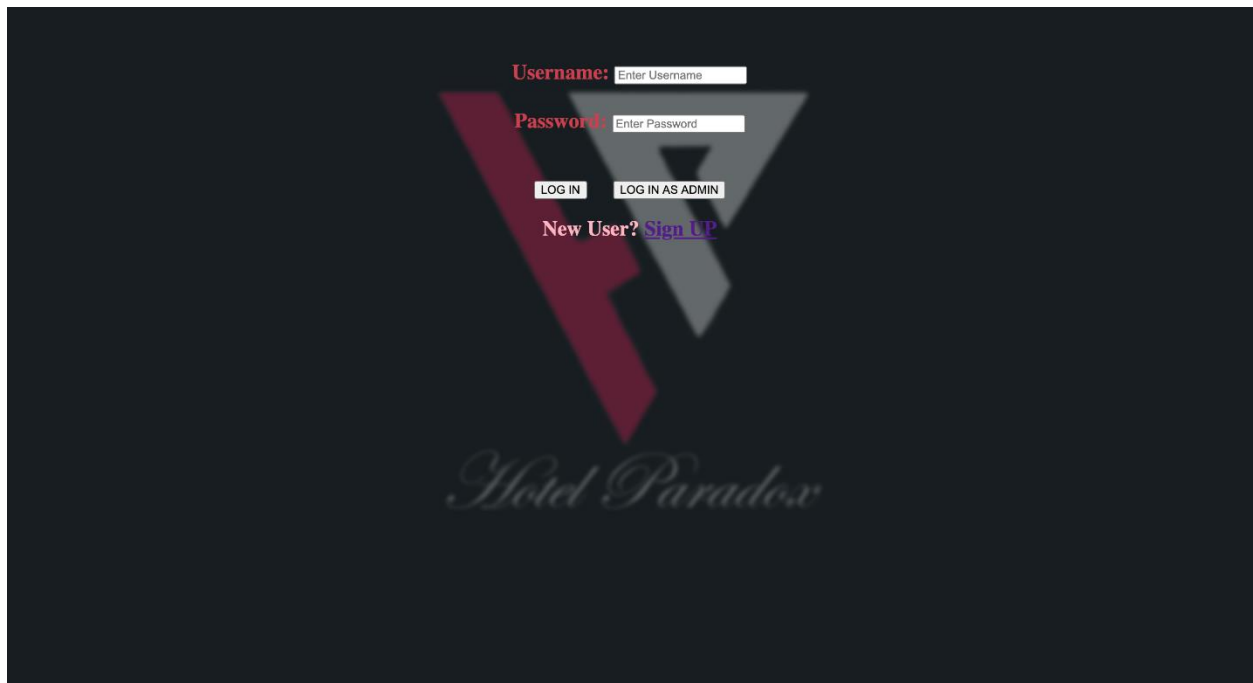
**SYSTEM TESTING:**

**Run the whole application**

Step 1: Login

User name: fgh

Password: fghnm



Step 2: Click on login, you stay on the same page as the user name and password is incorrect

Step 3: Login again

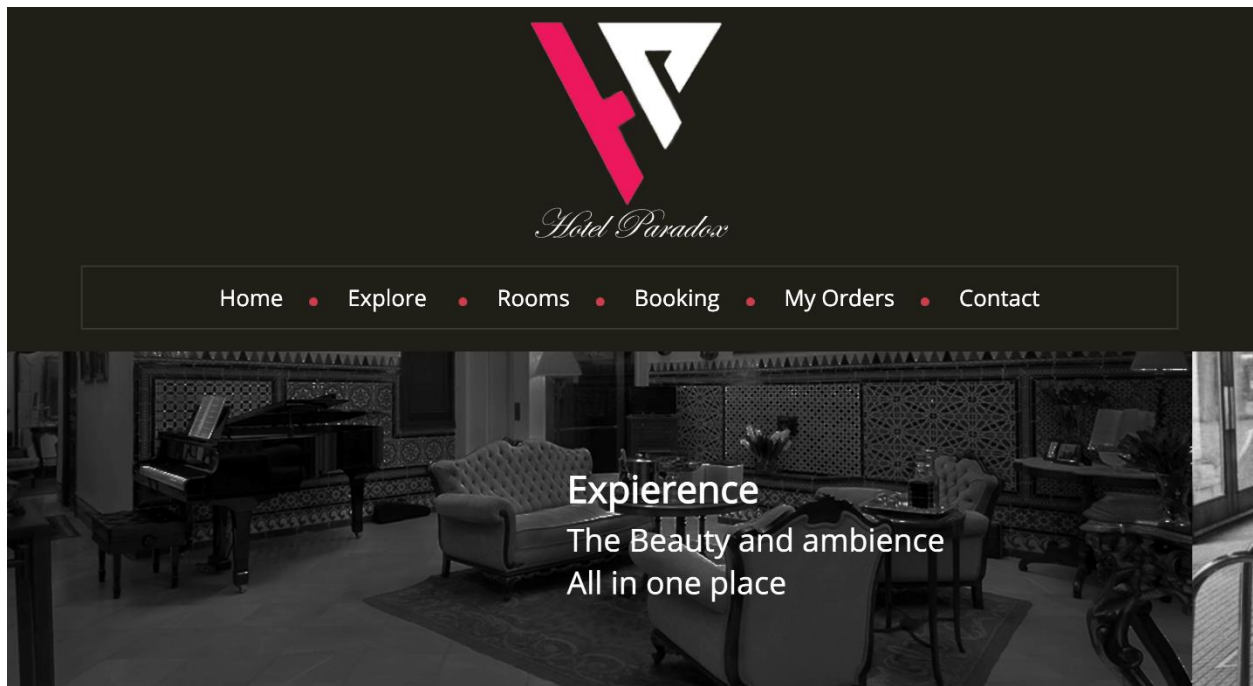
Username: prat

Password: . Prat@1234

Step 4: Click on login.

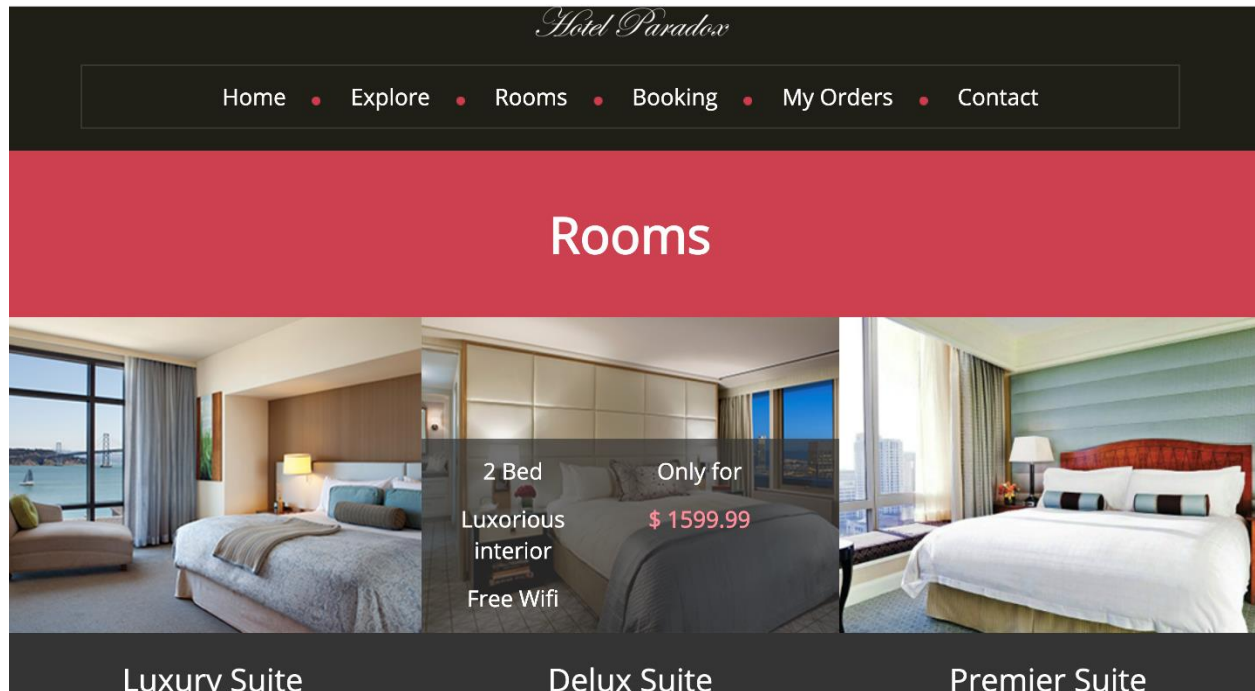
Step 5: On click of login, you will enter the home page.

Step 6: Click on explore, you will see the explore page.



Step 7: Click on about, you will enter the about page

Step 8: Click on book, you will see the book page.



Step 9: Select the number of rooms.

Step 10: Select the start and end dates, Check if the total cost is changing based on the dates and number of rooms selected.

Step 11: Give the promo code save30, on this promo code every customer gets a \$30 off.

## Booking

Rooms Luxury Suite

Number of Rooms  
- 1 +

Arrival Date  
11/17/2020

Departure Date  
11/18/2020

Promo code:  
save30

Apply Coupon ☒

CART SUMMARY:

Cost for Room selected : Luxury Suite  
Number of Rooms Selected: 1  
Total Cost : \$270

Proceed

Step 12: click on proceed to checkout, give the billing and the payment details.

Full Name	Name on Card		
<input type="text"/>	<input type="text"/>		
Email	card number		
<input type="text"/>	<input type="text"/>		
Address	Exp Month		CV
<input type="text"/>	<input type="text"/>		
City	Exp Year	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
State	Zip		
<input type="text" value="Alabama"/>	<input type="text"/>		
<input type="button" value="Continue to checkout"/>			

Step 13: Click on make payment button, you see a page of successful payment.



Thank you! Your Booking is successfull

To Find your Orders [click here](#)

[Go To Home](#)

Step 14: Click on return to home button, you will see the home page.

Step 15: Click on my orders button on the home page, you will see all the orders for that user.





## PREVIOUS ORDERS:

You have 2 orders:

Your Order ID : 69

Room booked: Luxury Room

No. of Rooms booked: 1

Cancel Booking

---

Your Order ID : 70

Room booked: Luxury Room

No. of Rooms booked: 1

Step 16: Click on cancel button, the order gets cancelled and the user should see a message that the order has been cancelled.



Thank you! Your Order is successfully Cancelled

To Find your Orders [click here](#)

Go To Home

Step 17: Logout from this user.

Step 18: Login as admin

Username: hem

Password: dfg

Step 19: Click on login, you will see a page with all the orders the motel has.



## PREVIOUS ORDERS:

You have 13 orders:

Your Order ID : 47

Room booked:  
No. of Rooms booked:

---

Your Order ID : 48

Room booked:  
No. of Rooms booked:

---

Your Order ID : 49

Room booked:  
No. of Rooms booked:

Step 20: The admin has right to cancel orders, on click of cancel the order gets cancelled.

Room booked:  
No. of Rooms booked:

---

Your Order ID : 56

Room booked:  
No. of Rooms booked:

---

Your Order ID : 57

Room booked:  
No. of Rooms booked:

---

Your Order ID : 62

Room booked: Luxury Room  
No. of Rooms booked: 1

---

Your Order ID : 71

Room booked: Luxury Room  
No. of Rooms booked: 1

Cancel Booking



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Go To Home

Step 21: Click on the homepage, the admin returns to the home page.

## 4. User Manual

### 4.1 Installation and Usage

For Windows Operating System

<https://www.apachefriends.org/download.html>

- Download the executable file and run it to install Xampp server.  
Select the components to be installed when prompted
- Apache
- MySQL
- PHP
- PHP MyAdmin
  
- Choose the installation directory C:/Program Files/xampp
- Install mySQL from Xampp control panel with root as username and empty password.
- Start Apache and MySql servers.
- Download code from Github and copy the code in htdocs folder inside xampp (C:/Program Files/xampp/htdocs)

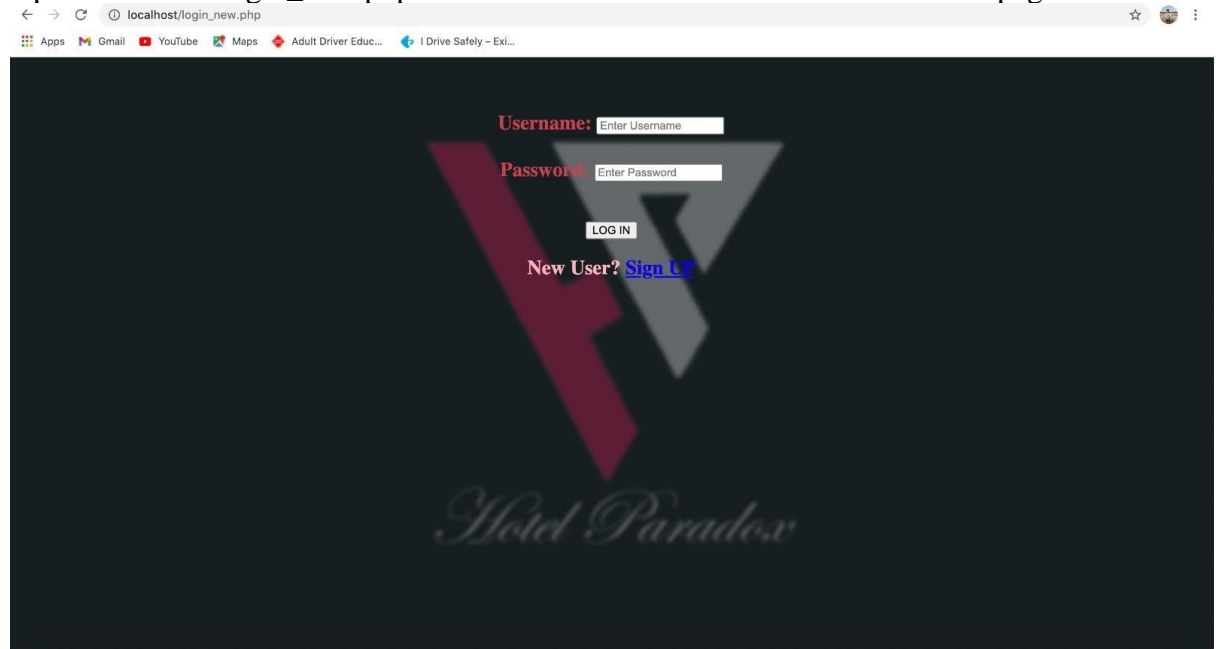
For Mac OS

- Download Xampp server for Mac OSX bit from the following website  
<https://www.apachefriends.org/download.html>
- Run the executable file and install Xampp server
- Start Apache server and MySQL server
- Download code from Github and place the code in htdocs folder of xampp (Applications/xampp/htdocs)

To run the application:

- Open php myadmin on web browser.
- Download files from github.

- Open localhost/login\_new.php on the web browser to access the web page.



- You have to see the homepage of the project like the above displayed page which signifies the connection is successful.
- To see if you're connected to the database or not enter the below credentials  
username:loooo  
password:Hem98888888

## 5. Web application usage instructions

- Download all the codes in phase 3(link: motelpro/Source Code/Phase3/) in Github.
- You will be having folders for each page in which you can code and can also download the file to test.
- On the login page, if you are a new customer use the Sign\_up button. Returning users can directly sign in using their credentials.
- Sign\_up Procedure:
  - You will be redirected to the registration page, where we request you fill in details based on the following requirements.
  - The password needs to have at least 8 characters in which one capital letter, one small letter, and one number should be present.
  - The email should be in an email format.
  - The phone number should have exactly 10 digits.
  - Zip Code should have exactly 5 digits.
  - We store these details in our database for future validation.
- On the home page, you can find many different options. You can explore them based on your interest.

- On the bookings page, you need to give all the details like room, number of rooms, Arrival and departure dates so that you get the Total cost.
- In payment pages all the details in the page must be filled to checkout the order.
- Users can use 'save30' as promo code so that they discount of 30 dollars in total cost.
- In the case of any inquiries, you can use the contact us button.
- We are using Xampp for the Tomcat server and MySQL.

Database name: motelpro

Table created: Customers

## 6. Features, Limitations and Feedback from code inspection

### Features:

- First time user coupon availability.
- Booking and Cancelling the rooms.
- Wide range of rooms available.
- Hassle free navigation and booking.
- Simple and easy steps to book.

### Limitations:

- We faced some issues during payment integration with paypal. Eventually we succeeded after a lot of research from online resources.

### Next Phase Features:

- We would like to implement gift card payments.
- Plan to extend web application to mobile application.
- Cab booking feature within the application.
- Development on other payment Integrations like Visa, Mastercard.
- Need to enhance UI layouts

### Feedback

- Suggested to change the background layout - We feel that we are good with our background, therefore not changing our pages background
- Changes in naming conventions - We are taking this feedback and trying to use proper naming conventions wherever possible.

## 7. Member Contribution Table

Member name	Contribution description	Overall Contribution (%)	Note
<b>HEMANTH KUMAR KALUVAKURI</b>	Backend work on bookings page, admin authentication, storing order details in backend, documentation, and testing.	<b>20%</b>	<b>N/A</b>
<b>PRATHYUSHA DASARI</b>	Database work on retrieving order details from backend to orders page, proving access to admin to get all orders, documentation, and testing.	<b>20%</b>	<b>N/A</b>
<b>SRIHARSHA JALIGAMA</b>	Worked on frontend customer order page and order confirmation, documentation, and testing.	<b>20%</b>	<b>N/A</b>
<b>RAHUL REDDY KANMANTHAREDDY</b>	Frontend on admin orders and cancel confirmation page, documentation, and testing.	<b>20%</b>	<b>N/A</b>
<b>ANURAG MUTYAPWAR</b>	Frontend work on payment page and linking it to confirmation page, documentation, and testing.	<b>20 %</b>	<b>N/A</b>

