

Hotel Management System

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Title: Hotel Management System

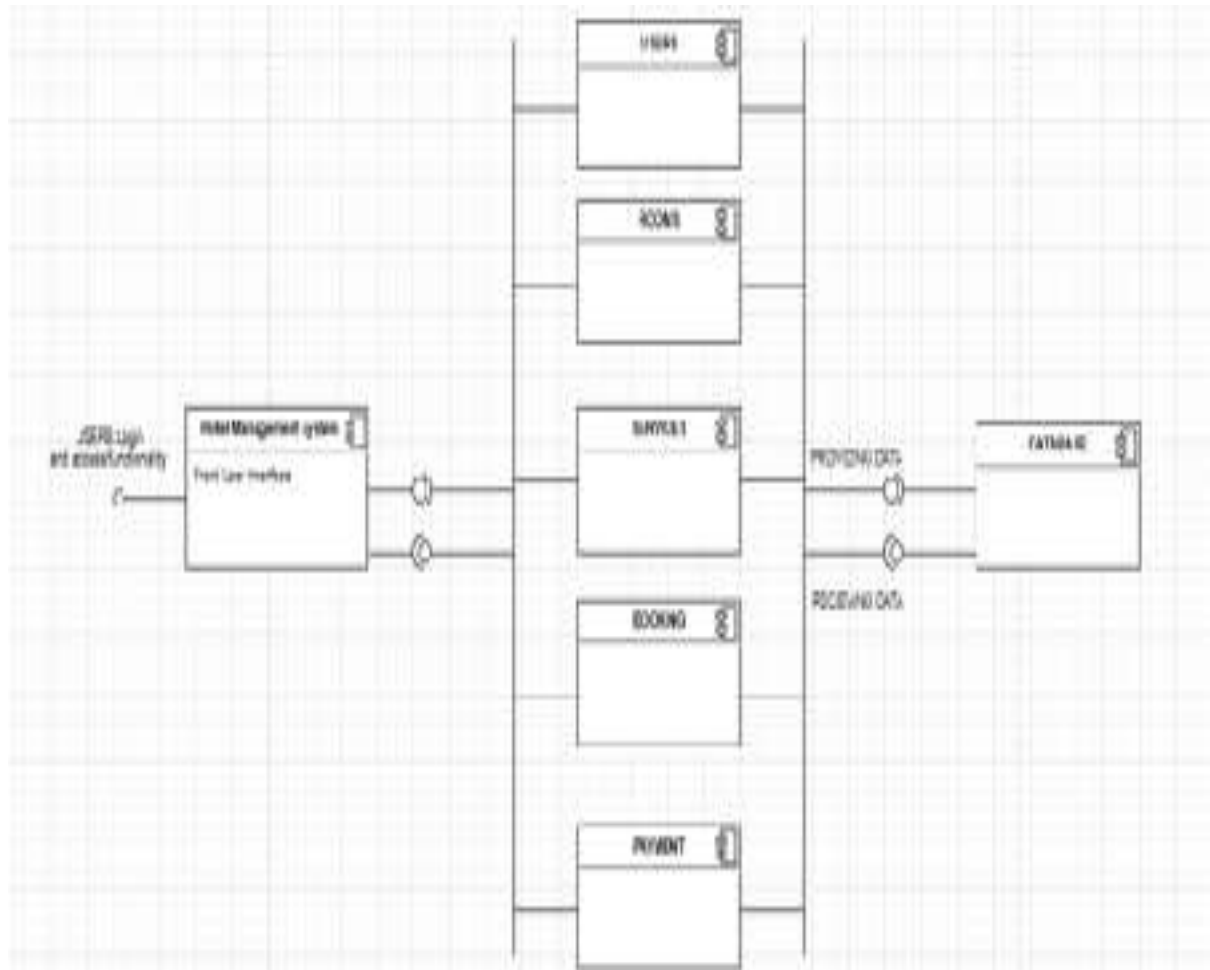
Nature of Project: Web Application

Scope:

Having a management system to provide the service of booking to the customer and to track reports and stats of the hotel will help not to manage the hard papers which are burdensome responsibilities for the management. Our system will be keeping the record of the staff as well as tracking their check-in time. It will be providing keep track from customer booking to customer payment and allow the admin to view statistics about the bookings and finance. The system under discussion is the implementation of the Hotel management system which will automate the major operations of the hotel. The reservation system is to keep records of available rooms. The room management system will manage all types of room services. The system will keep track of all inventories of the hotel. Moreover, the system will maintain the detail of guests (e.g. personal detail, check-in date, check-out date, etc.). The administration department will manage and monitor everything. There will be three end-users: owner, manager, and receptionist. The owner can access all systems without any restrictions. Manager will access all system functionality with limited restriction and receptionist can only access reservation management system.

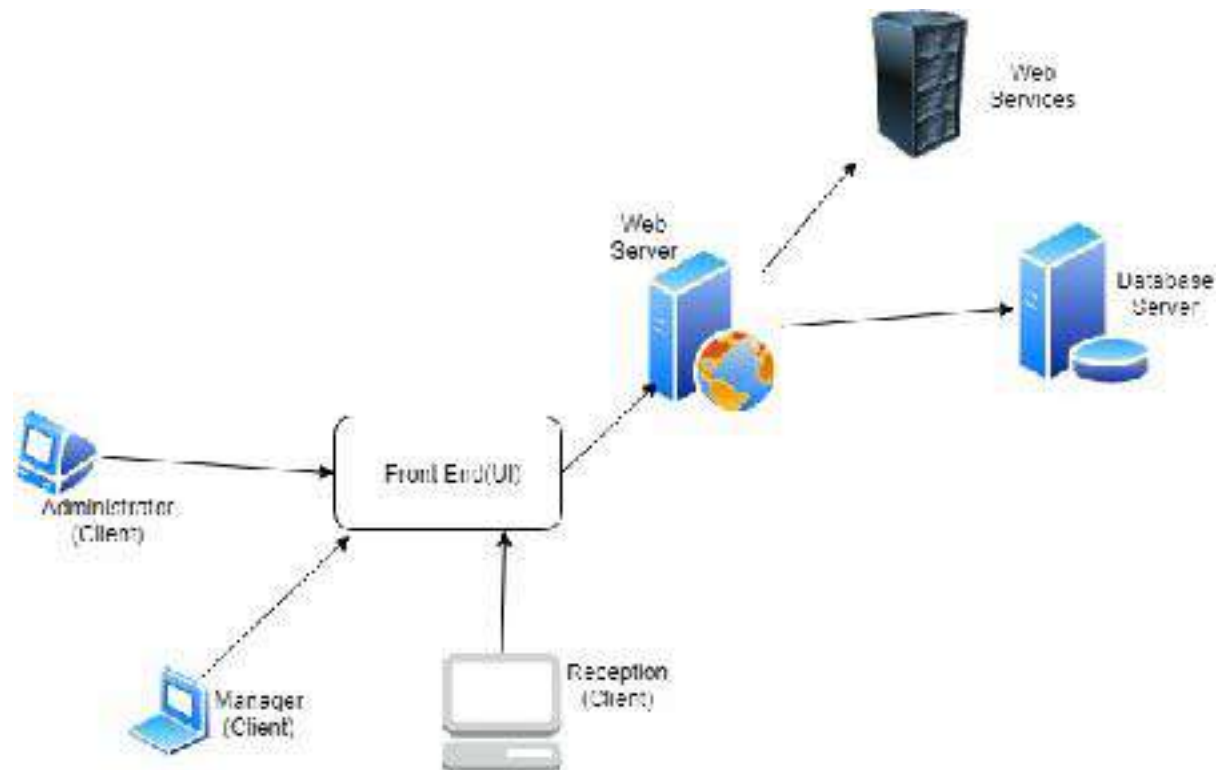
The objective of the automated Hotel Management System is to simplify day by day a lot of processes of the hotel. The system will be able to manage every service in a quick and perfect manner. This system will overcome the drawback caused by a large amount of paper file handling happening in the hotels. Some of the benefits of the development of such systems are safety, ease of use and efficiency and accuracy of information retrieval. We as a developers will also focus on easy to use features of the system.

Component Diagram



Architecture

Client-Server Architecture



It's a client server application as data is stored in database and whoever wants to view, update or Delete data they access the same database with different permissions and apply the functionality they can apply. A front-end is provided to access and modify the database easily and with modern UI.

All Tables (Booking, Payment, PaymentByCard, User, Rooms, Services,) are created in Database and operations (Create, View, Update, Delete) are performed on the same database. So, if one person deletes or update an object, it is deleted or updated for all.

E.g. when a booking object is created, its record is stored in the database. Now whoever can access the database, he is able to modify the booking details.

Product Backlog

Sprint 1 Backlog

Module 1			
<p>User story 1</p> <p>User story name Create Account</p> <p>User story statement As an admin, I want to create an Account to get myself registered in the Hotel Management System.</p> <p>Acceptance Criteria Account has been created successfully.</p> <ul style="list-style-type: none"> Admin can use this account for interaction with the Hotel <p>Failure Scenario Unable to sign up.</p> <ul style="list-style-type: none"> Enter valid Details (pop up) 	<p>Sub user story 1.1 Create Account by Phone no. As an admin, I want to create an account by phone to get myself registered in the system.</p> <p>Acceptance Criteria</p> <ul style="list-style-type: none"> Account has been created successfully. Admin can use this account for interaction with the Hotel <p>Failure Scenario Unable to sign up</p> <ul style="list-style-type: none"> Enter valid Details (pop up) <p>Sub user story 1.2 Create Account by email. As an admin, I want to create an account by email to get myself registered in the system.</p> <p>Acceptance Criteria Account has been created successfully.</p> <ul style="list-style-type: none"> Admin can use this account for interaction with the Hotel <p>Failure Scenario Unable to sign up</p> <ul style="list-style-type: none"> Enter valid Details (pop up) 	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> Connect SQLite db Create Table UserAccounts Create Attributes (id, email, password, phone no.) Create front end authentication form Create form for signing up by email Create form for signing up by phone Add records to database If username already exist, throw error If email already exist, throw error If phone no. already exist, throw error If terms are not agreed, throw error If record is added into database correctly, account is created. 	<p>Status Completed within planned time.</p>

<p>User story 2 User story name Sign up User story statement As an admin, I want to sign in so that I can have access to my account. Acceptance Criteria User has been logged in successfully Failure Scenario Unable to login due to corresponding failure for log in</p> <ul style="list-style-type: none"> • Incorrect username entered • Incorrect password entered. 	<p>Sub user story 2.1 Log in by Phone no. As an admin, I want to log in by phone so that I can have access to my account. Acceptance Criteria User has been logged in successfully Failure Scenario Unable to login due to corresponding failure for log in</p> <ul style="list-style-type: none"> • Incorrect phone No entered • Incorrect password entered <p>Sub user story 2.2 Log in by email. As an admin, I want to log in by email so that I can have access to my account. Acceptance Criteria User has been logged in successfully Failure Scenario Unable to login due to corresponding failure for log in</p> <ul style="list-style-type: none"> • Incorrect email entered • Incorrect password entered 	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect to SQLite db. • Create Instance of UserAccounts • Create form for log in • Retrieve (id, password from form) • If ID is not in username, check id in email • If ID is not in email, check id in phone • If ID is not is phone, throw error User doesn't exist • If ID is in email, username or phone, match password • If password doesn't match throw error • Create Session of the user if password matches • Delete User session is user logs out 	<p>Status Completed within planned time.</p>
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Module 2			
User story 3 User story name Add Room User story statement As an admin, I want to add a room in records so that I can book a room. Acceptance Criteria The room has been added successfully. Failure Scenario Room details are not added in records due to Database failure.		Corresponding Tasks (Technical Details) <ul style="list-style-type: none"> • Connect to Sqlite db • Create Table Room • Add attributes(id, capacity, floor) • Create Front end Form • Create Instance • Add Instance to database • If room is already in the database, throw error. 	Status Completed within planned time.
User story 4 User story name Update Room User story statement As an admin, I want to update the room details so that I can manage better records. Acceptance Criteria <ul style="list-style-type: none"> • Details of the room have been updated successfully. • Updated room can be booked. Failure Scenario “Error in updating room details” (popup).		Corresponding Tasks (Technical Details) <ul style="list-style-type: none"> • Connect to SQLite db. • Access Table Room • Create Front end form • If room exist, update the record • If room doesn't exist, throw error 	Status Completed within planned time.

User story 5 User story name Remove Room User story statement As an admin, I want to remove a room in records so that I can manage to book again. Acceptance Criteria The room has been removed successfully. Failure Scenario “Cannot remove room” (pop up)		Corresponding Tasks (Technical Details) <ul style="list-style-type: none"> • Connect to SQLite db. • Create Front end form • If room exist, delete the record • If room doesn't exist, throw error 	Status Completed within planned time.
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Sprint 2 Backlog

<p>User story 6</p> <p>User story name Add Services</p> <p>User story statement As an admin, I want to add services so that I can allocate service in the booking.</p> <p>Acceptance Criteria Services have been added successfully.</p> <ul style="list-style-type: none"> • These services are now available for customers to avail. <p>Failure Scenario</p> <ul style="list-style-type: none"> • Service details are not added in records due to Database failure. Service cannot be availed. 	<p>Sub user story 6.1</p> <p>Add Room Services As an admin, I want to add room services so that I can get services to make customer booking.</p> <p>Acceptance Criteria Room Services have been added successfully</p> <ul style="list-style-type: none"> • These services are now available for customers to avail. <p>Failure Scenario Room Services details are not added in records due to Database failure. Service cannot be availed.</p> <ul style="list-style-type: none"> • Error in adding service (pop up) <p>Sub user story 6.2</p> <p>Add Food Services As an admin, I want to add food services so that I can get services to make customer booking.</p> <p>Acceptance Criteria Food Services have been added successfully.</p> <ul style="list-style-type: none"> • These services are now available for customers to avail. <p>Failure Scenario Food Services details are not added in records due to</p>	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Create Table services 	<p>Status Completed within planned time.</p>
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<p>User story 7</p> <p>User story name Update Services</p> <p>User story statement As an admin, I want to edit services so that I can keep updated services in record.</p> <p>Acceptance Criteria Services have been updated or edited successfully.</p> <p>Failure Scenario 'Cannot edit service' (pop up)</p>	<p>Sub user story 7.1</p> <p>Update Room Services As an admin, I want to update room services so that I can keep updated services in record.</p> <p>Acceptance Criteria</p> <ul style="list-style-type: none"> Room Services have been edited successfully. <p>Failure Scenario</p> <ul style="list-style-type: none"> 'Cannot edit room service' (pop up) <p>Sub user story 7.2</p> <p>Update Food Services As an admin, I want to update food services so that I can keep updated services in record.</p> <p>Acceptance Criteria</p> <ul style="list-style-type: none"> Food Services have been edited successfully. <p>Failure Scenario</p> <ul style="list-style-type: none"> 'Cannot edit food service' (pop up) 	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> Connect SQLite db. 	<p>Status Completed within planned time.</p>
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<p>User story 8 User story name Remove Services User story statement As an admin, I want to remove services so that I can discard those services which are not useful. Acceptance Criteria</p> <ul style="list-style-type: none"> Services have been removed successfully. <p>Failure Scenario</p> <ul style="list-style-type: none"> Failure of removal of service from record cause to offer an unavailable service. 'Cannot remove service' (pop up) 	<p>Sub user story 8.1 Remove Room Services As an admin, I want to remove room services so that I can discard those services which are not useful. Acceptance Criteria</p> <ul style="list-style-type: none"> Room Services have been removed successfully. <p>Failure Scenario</p> <ul style="list-style-type: none"> Failure of removal of Room service from record cause to offer an unavailable service. <p>Sub user story 8.2 Remove Food Services As an admin, I want to remove food services so that I can discard those services which are not useful. Acceptance Criteria Food Services have been removed successfully. Failure Scenario Failure of removal of food service from record cause to offer an unavailable service.</p>	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> Connect SQLite db. 	<p>Status Completed within planned time.</p>
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Module 3 (View Packages)			
User story 9 User story name View Services User story statement As an admin, I want to view services so that I can keep checking on services to offer Acceptance Criteria <ul style="list-style-type: none"> Services interface have been displayed successfully. Failure Scenario <ul style="list-style-type: none"> 'Error in viewing services' (pop up) 		Corresponding Tasks (Technical Details) <ul style="list-style-type: none"> Connect SQLite db. 	Status Completed within planned time.

User story 10 User story name View Rooms User story statement As an admin, I want to view Rooms so that I can check free rooms and allocate them to the booking process. Acceptance Criteria <ul style="list-style-type: none"> The services interface has been displayed successfully Failure Scenario: <ul style="list-style-type: none"> “Error in viewing room details” (pop up) 		Corresponding Tasks (Technical Details) <ul style="list-style-type: none"> Connect SQLite db. 	Status Completed within planned time.
Module 4 (Manage Bookings)			

<p>User story 11</p> <p>User story name Make Booking</p> <p>User story statement As an admin, I want to make a booking so that I can provide rooms to the customer for staying.</p> <p>Acceptance Criteria</p> <ul style="list-style-type: none"> • Booking has been done successfully <p>Failure Scenario:</p> <ul style="list-style-type: none"> • “Error in making booking” (pop up) 		<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. 	<p>Status Completed within planned time.</p>
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Sprint 3 Backlog

Module 4 (Manage Bookings)			
<p>User story 12</p> <p>User story name View Booking</p> <p>User story statement As an admin, I want to view a booking so that I can assure the details of booking.</p> <p>Acceptance Criteria Booking has been viewed successfully.</p> <p>Failure Scenario “Error in viewing booking” (pop up).</p>	<p>Sub user story 12.1</p> <p>Search By Customer Name As an admin, I want to search booking by customer name so that I can view the details of booking.</p> <p>Acceptance Criteria Booking has been viewed successfully by name.</p> <p>Failure Scenario “Error in viewing booking” (pop up).</p> <p>Sub user story 12.2</p> <p>Search By Date As an admin, I want to search booking by date so that I can view the details of booking.</p> <p>Acceptance Criteria Booking has been viewed by date successfully.</p> <p>Failure Scenario “Error in viewing booking by date” (pop up).</p>	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Get Table Booking • Retrieve All Bookings which are active • Show booking list on web front-end • If booking is selected, show booking details on front-end • If booking is searched by Name, Check If name is Invalid, throw error • If booking is searched by Date, Check If date is Invalid, throw error • If Searched and query is valid, retrieve queried object from database and send list on front end • If Searched query is clear, show all bookings 	<p>Status Completed within planned time.</p>

<p>User story 13 User story name Drop Booking User story statement</p> <p>As an admin, I want to drop booking so that I can give free rooms to provided customers.</p> <p>Acceptance Criteria Booking has been canceled successfully.</p> <p>Failure Scenario Invalid information entered “error in cancelation”.</p>		<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Get Table Booking • Get Booking Object • Show Booking Object • Check If booking doesn't exist, throw error • If booking exist, Drop Booking • send message to front-end booking dropped. 	<p>Status Completed within planned time.</p>
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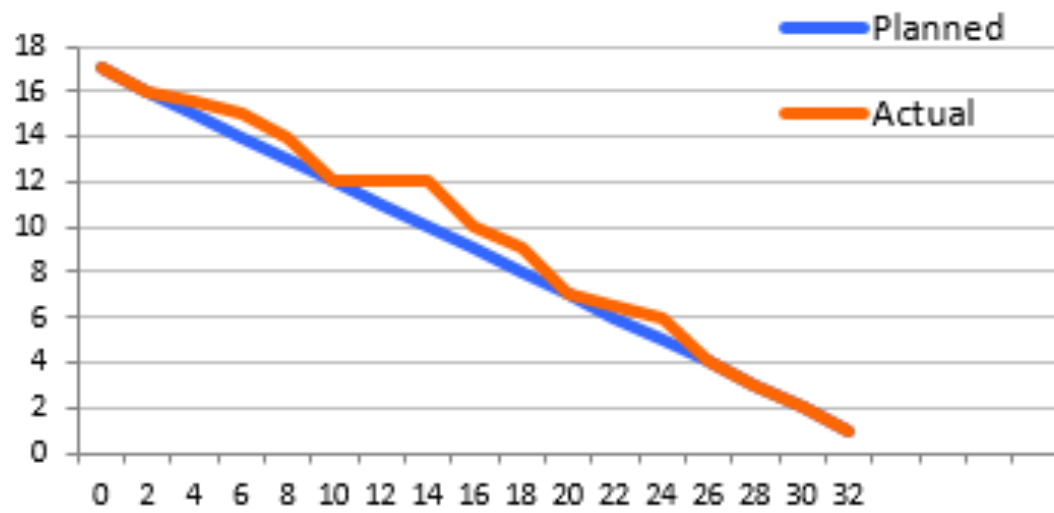
<p>User story 14</p> <p>User story name Edit Booking</p> <p>User story statement As an admin, I want to edit Booking so that I can change packages I choose while booking.</p> <p>Acceptance Criteria Booking has been edited successfully.</p> <ul style="list-style-type: none"> • Packages are changed according to requirements. <p>Failure Scenario “Failed to update booking” (pop up).</p>		<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Get Table Booking • Get object from table • Show data on front end • If Updating fields are incorrect, throw error • If Fields are valid, update booking • Show Message on front end, booking is updated. 	<p>Status Completed within planned time.</p>
<p>Module 5 (Manage Payment)</p>			

<p>User story 15 User story name Add payment User story statement As an admin, I want to Add payment so that customers can pay their bill.</p> <p>Acceptance Criteria Bill has been prepared successfully.</p> <ul style="list-style-type: none"> • Users can pay the bill according to the services availed. <p>Failure Scenario “Failure in making payment”(pop up).</p>	<p>Sub user story 15.1 Add payment by Credit Card As an admin, I want to Add payment by Credit Card so that customers can pay their bill.</p> <p>Acceptance Criteria Bill has been prepared for credit card successfully.</p> <ul style="list-style-type: none"> • Users can pay the bill according to the services availed. <p>Failure Scenario “Failure in making payment” (pop up).</p> <p>Sub user story 15.2 Add payment by Cash As an admin, I want to Add payment by Cash so that customers can pay their bill.</p> <p>Acceptance Criteria Bill has been</p>	<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Create Table PaymentByCard • Create Table Payment • Get Table Booking • Get Booking Object • If PaymentByCash, Update Values on Payment and Store the instance in booking.payment • If PaymentByCard, Create Object of PaymentByCard • Create Object Payment • Update Payment.ByCard with PaymentByCard • Update Other Payment Fields • Update booking.payment with Payment • If Fields are invalid, throw error • If paid, show message on front-end ‘Booking Successful’ 	<p>Status Completed within planned time.</p>
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Module 6 (Reports)			
<p>User story 16 User story name Booking Report</p> <p>User story statement As an admin, I want to generate reports so that I can have a record of all the bookings.</p> <p>Acceptance Criteria Successful generation of reports.</p> <ul style="list-style-type: none"> • Reports show the details of billing according to selected packages. <p>Failure Scenario “Error in report generation” (pop up).</p>		<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Get Table Bookings • Retrieve From and To Date from front end • If Invalid, throw error • If Valid Show bookings • Calculate total bookings • Calculate Dropped Bookings • Calculate Active Booking • Show Stats On Front-End 	<p>Status Completed within planned time.</p>

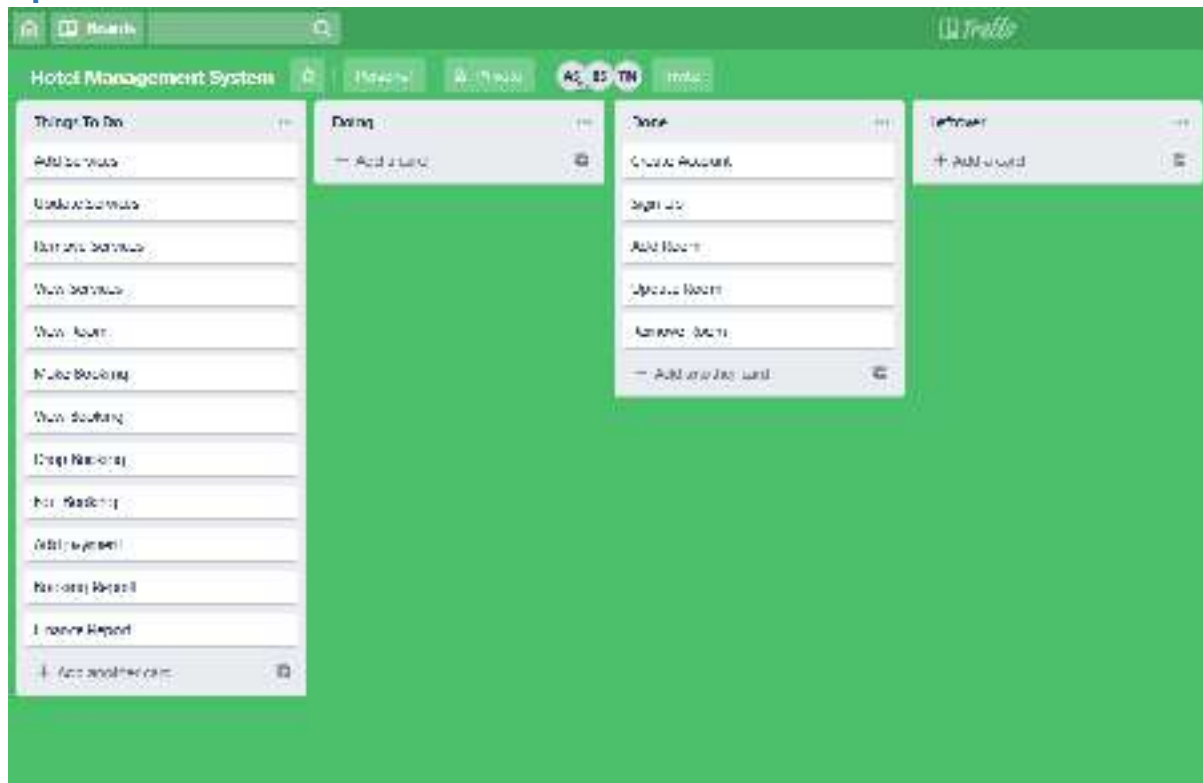
<p>User story 17</p> <p>User story name Finance Report</p> <p>User story statement As an admin, I want to generate reports so that I can have a record of all the finances.</p> <p>Acceptance Criteria Successful generation of financial reports.</p> <ul style="list-style-type: none"> • Reports show the details of billing on selected intervals of time (weekly or monthly).. <p>Failure Scenario “Error in report generation” (pop up).</p>		<p>Corresponding Tasks (Technical Details)</p> <ul style="list-style-type: none"> • Connect SQLite db. • Get Table Bookings • Retrieve From and To Date from front end • If Invalid, throw error • If Valid Show Payments • Calculate total Payment • Calculate Dropped Payment • Calculate Loss Show Stats On Front-End 	<p>Status Completed within planned time.</p>
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Product Burndown Chart

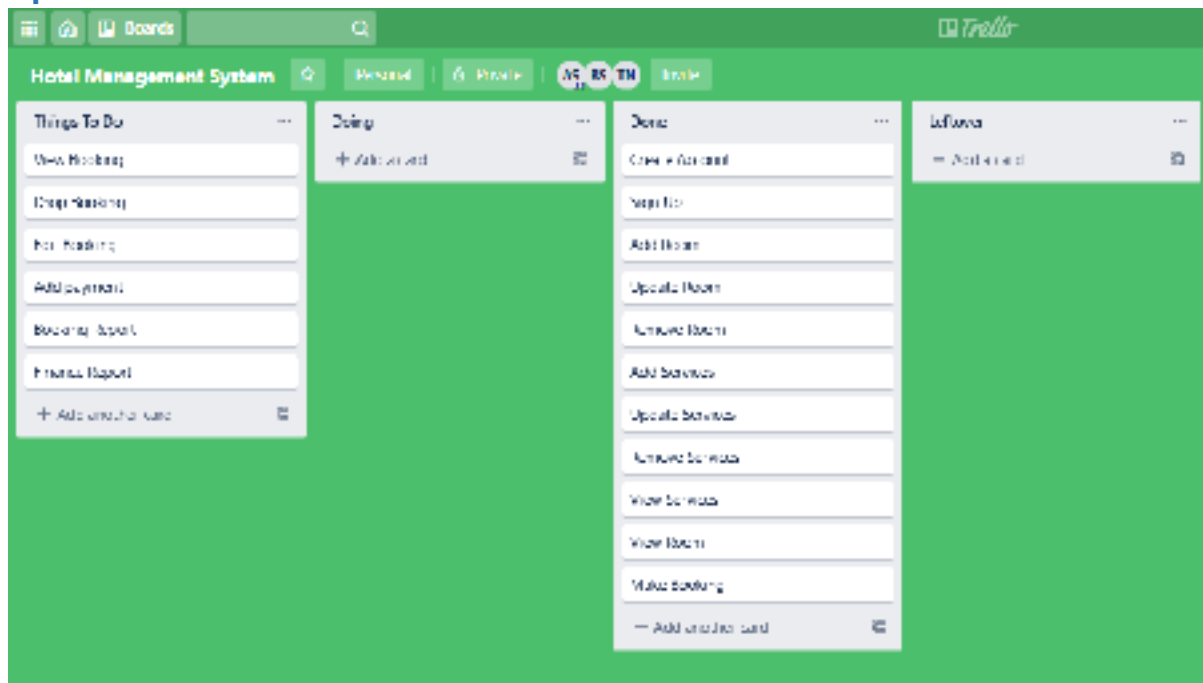


Trello Snapshots

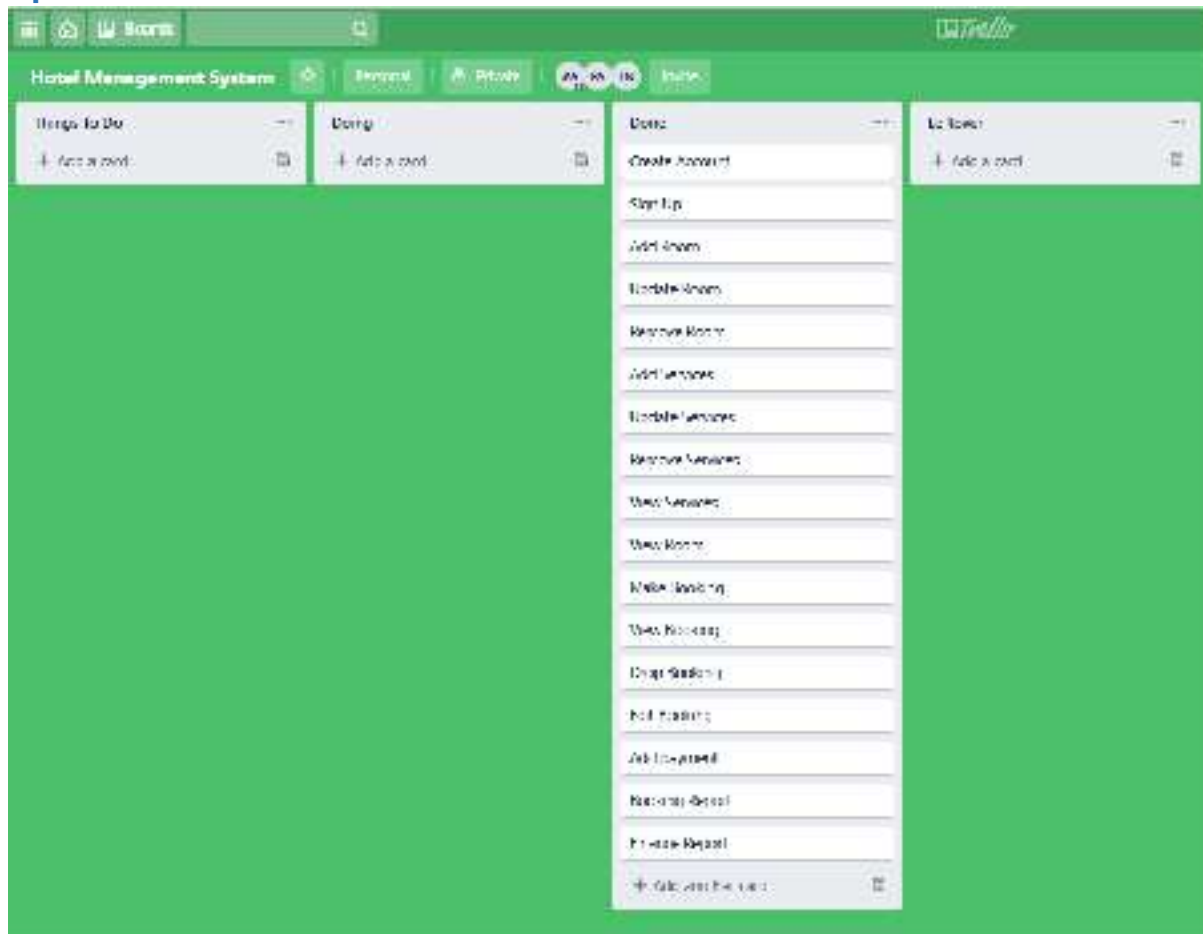
Sprint 1



Sprint 2



Sprint 3

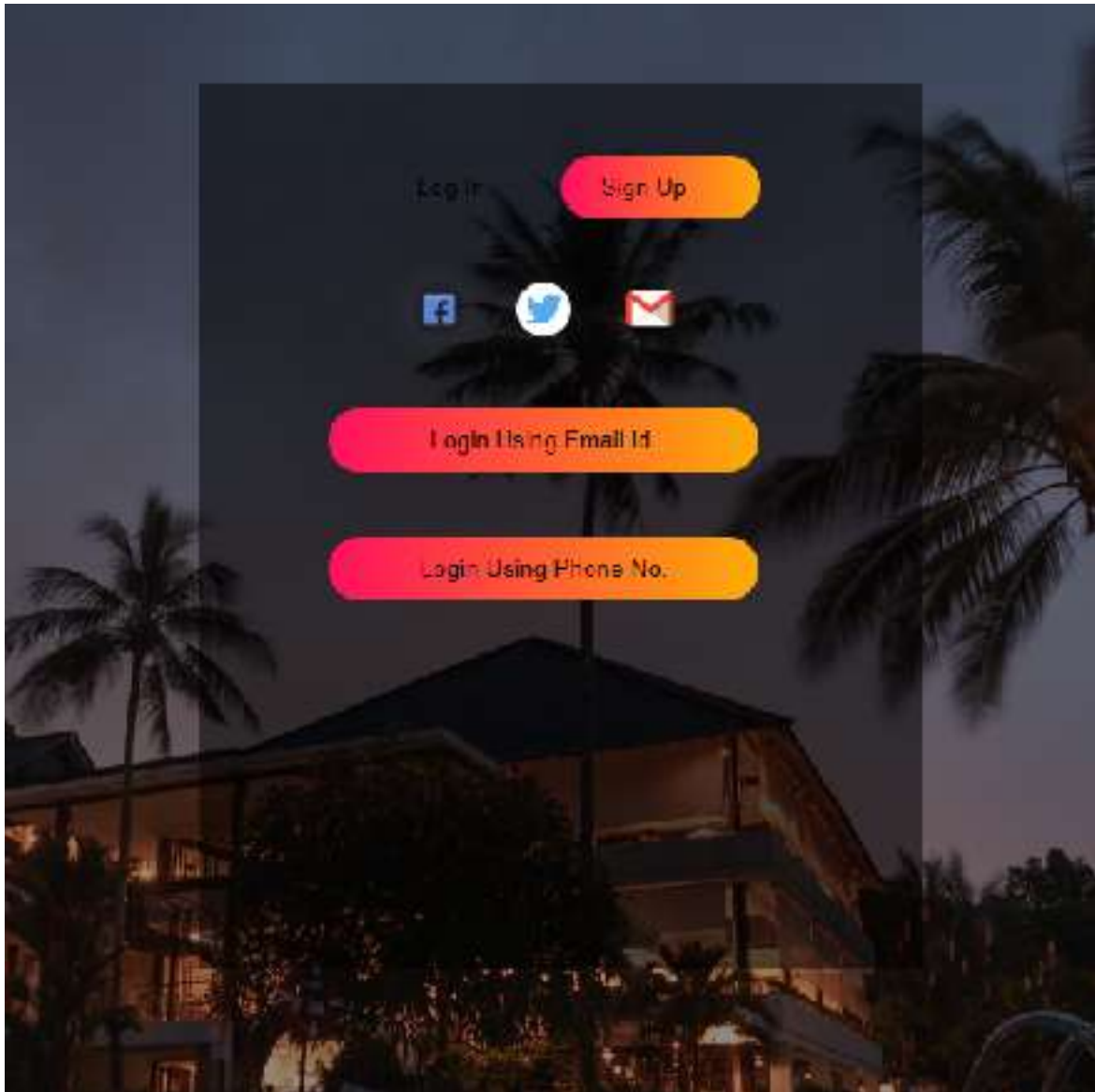


Graphical User Interface (GUI)

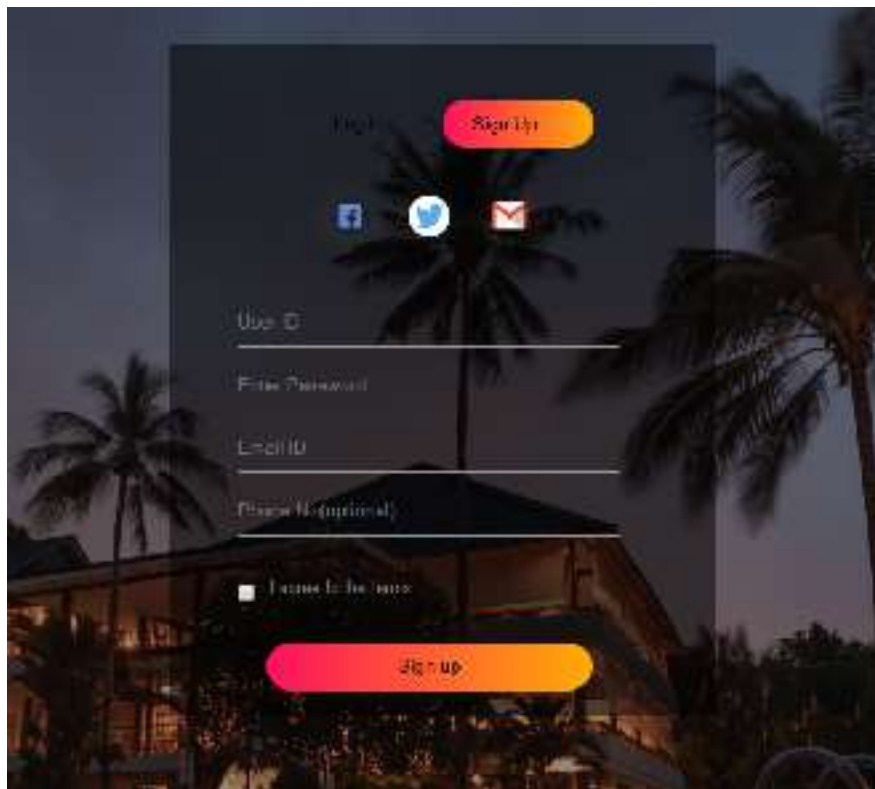
UI DESIGNS

User Story 1

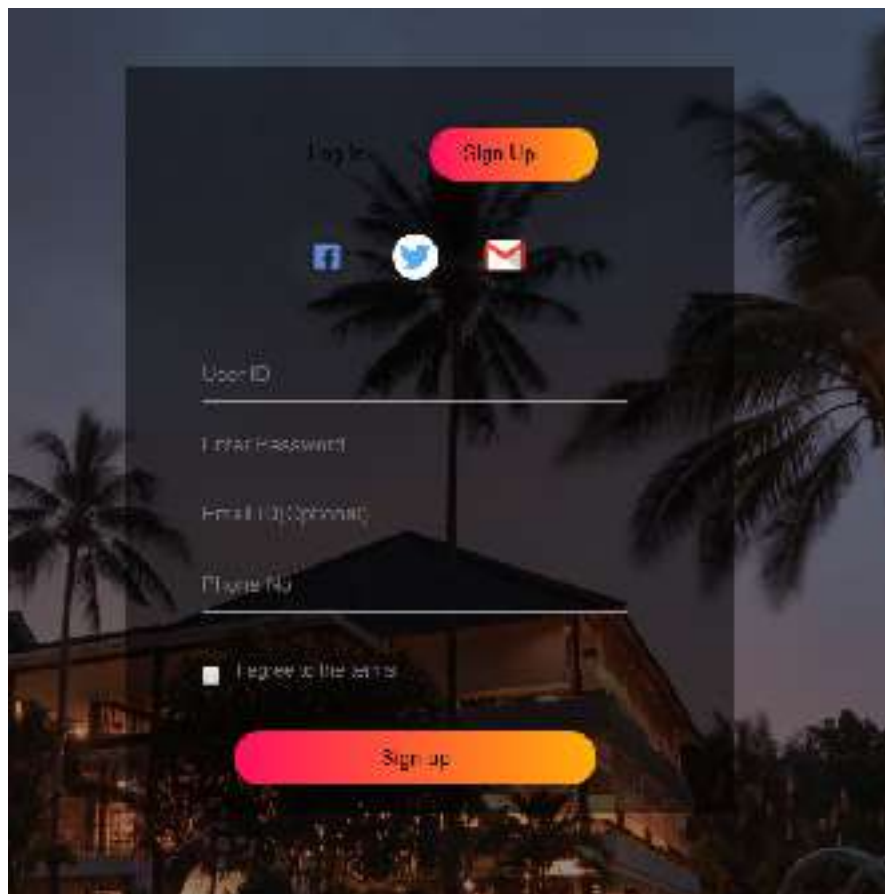
Sign up Form



1.1 Sign up Using Email

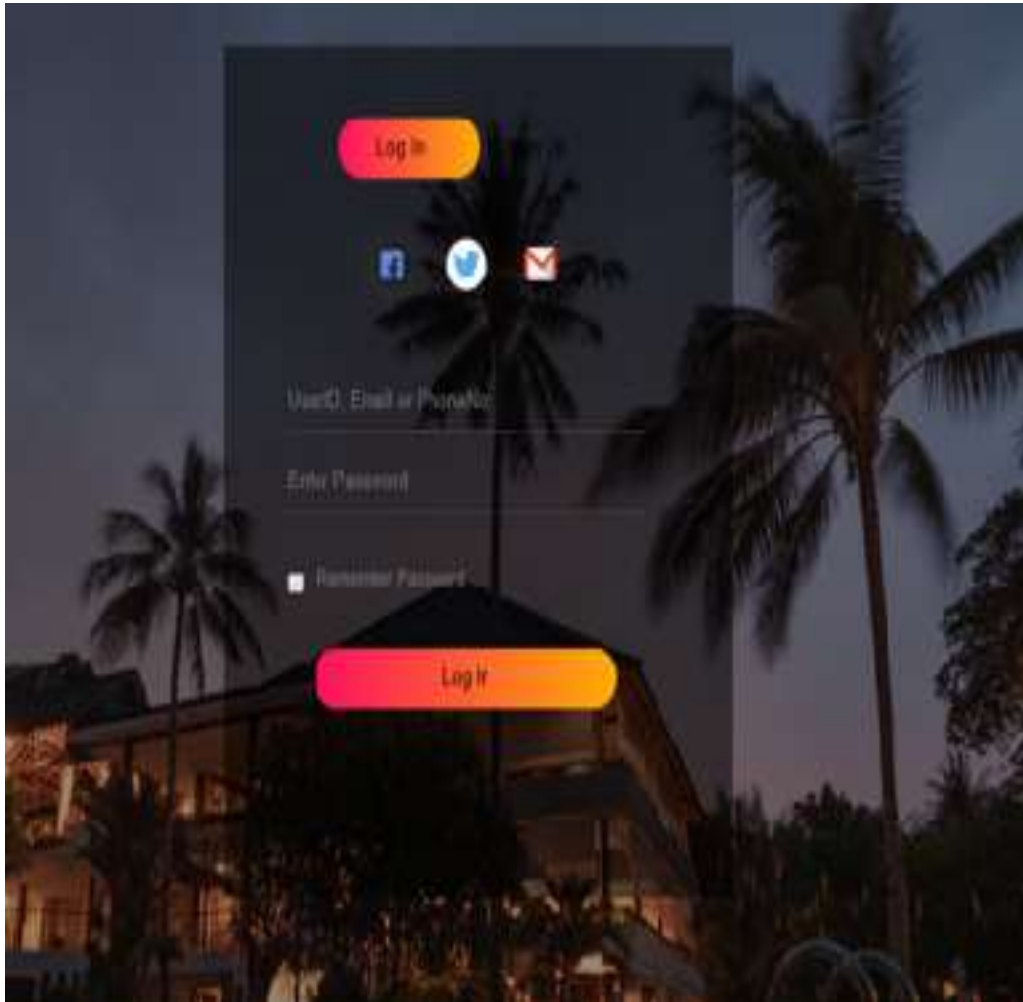


1.2 Sign up Using Phone



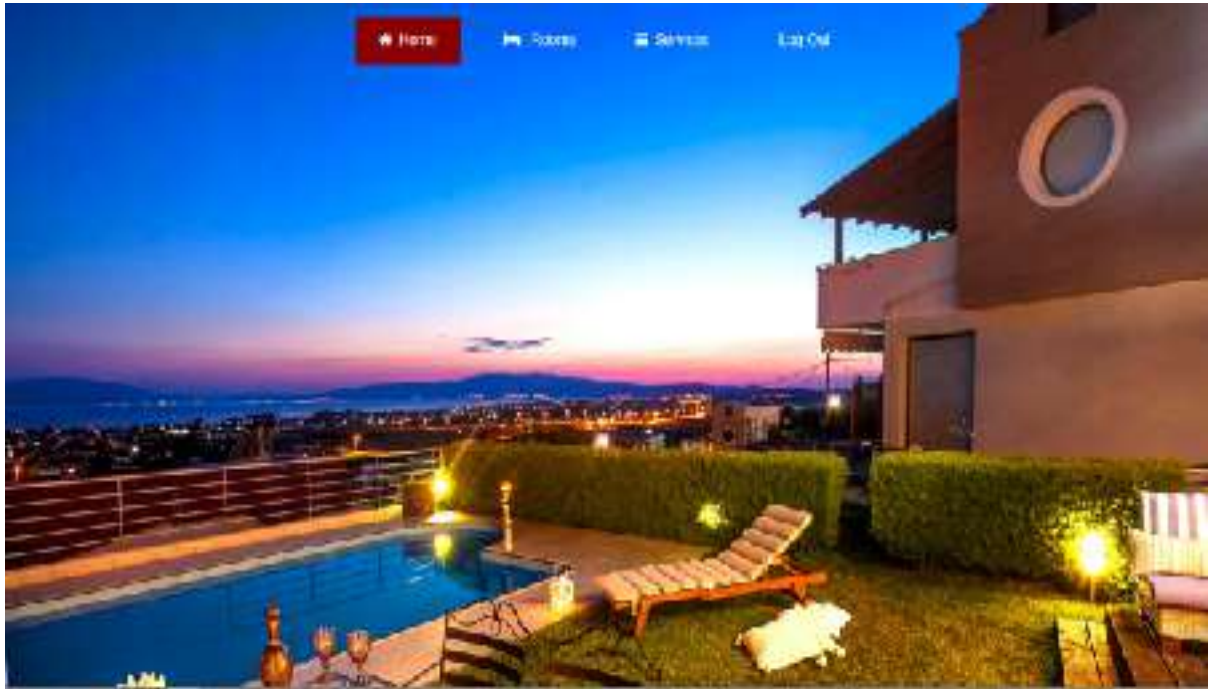
User Story 2

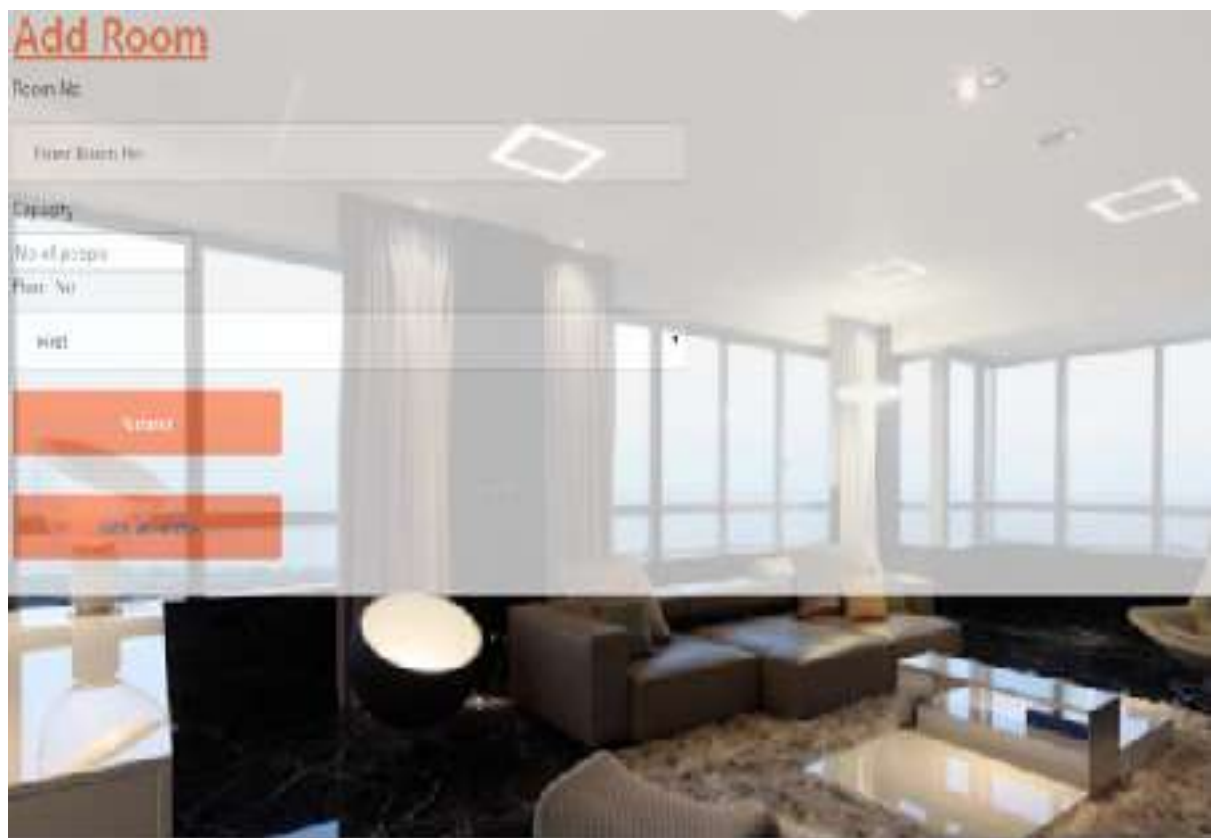
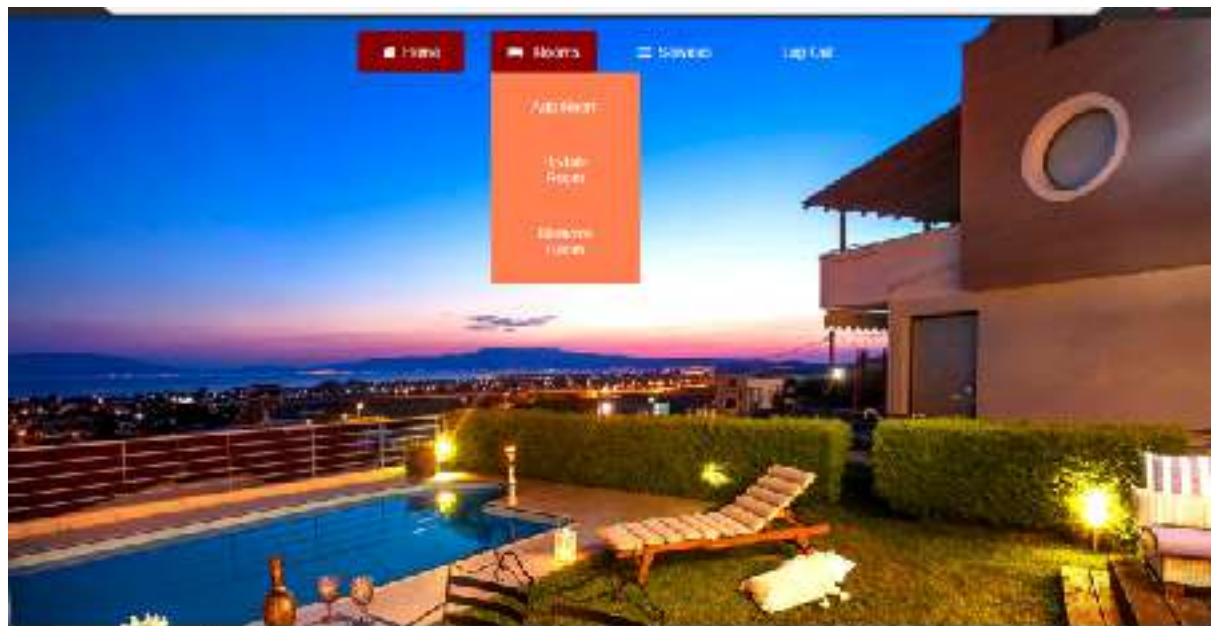
Log In Form



User Story 3

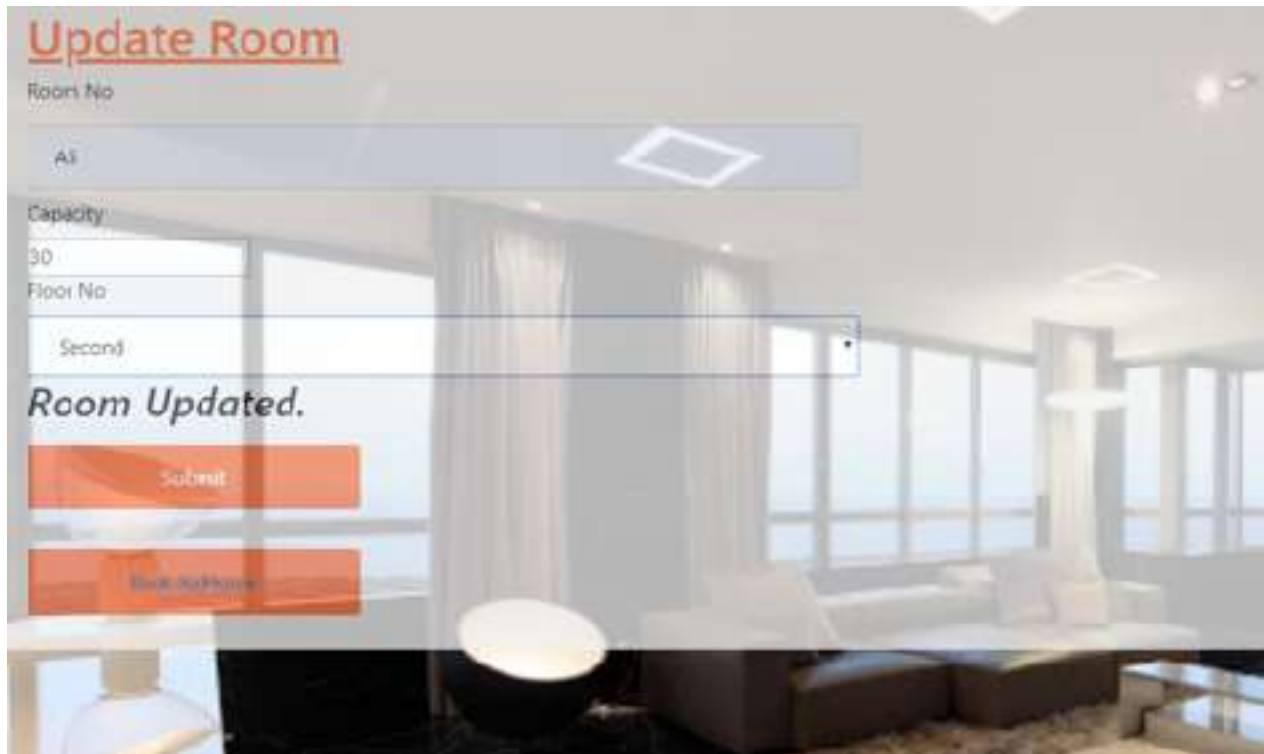
Add Room





User Story 4

Update Room



Update Room

Room No

A5

Capacity

30

Floor No

Second

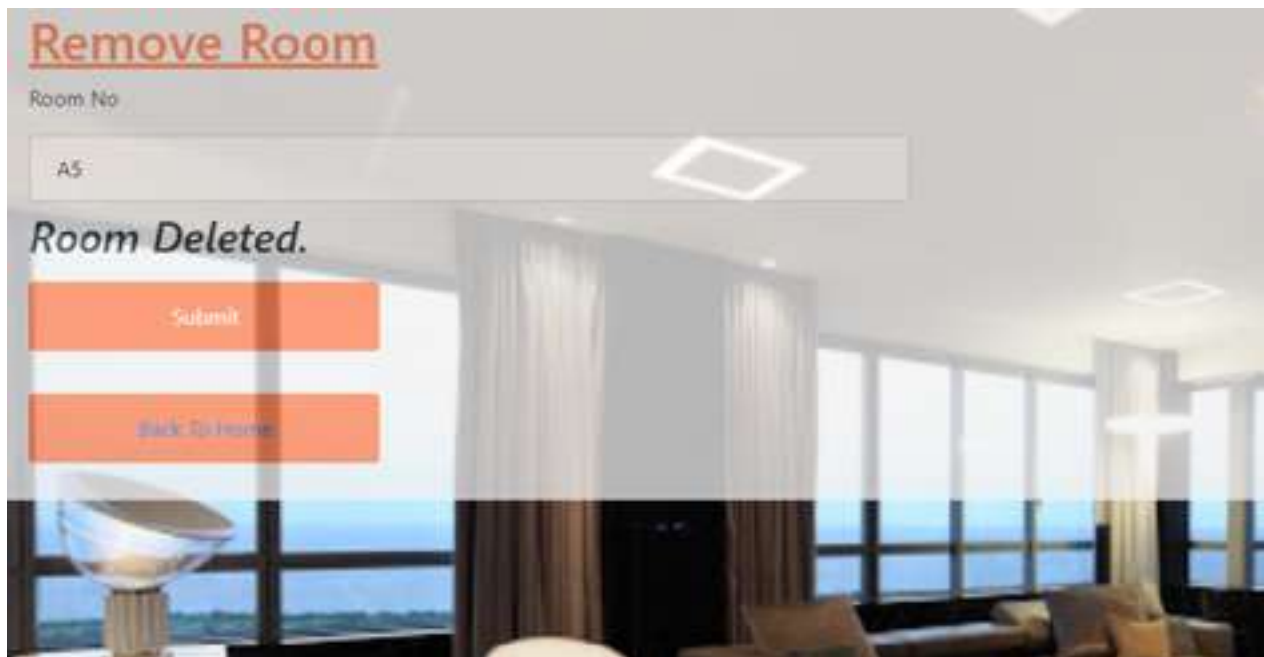
Room Updated.

Submit

Back To Home

User Story 5

Delete Room



Remove Room

Room No

A5

Room Deleted.

Submit

Back To Home

User Story 6

Add Services



User Story 7

Update Services



User Story 8

Update Services



User Story 9

View Services





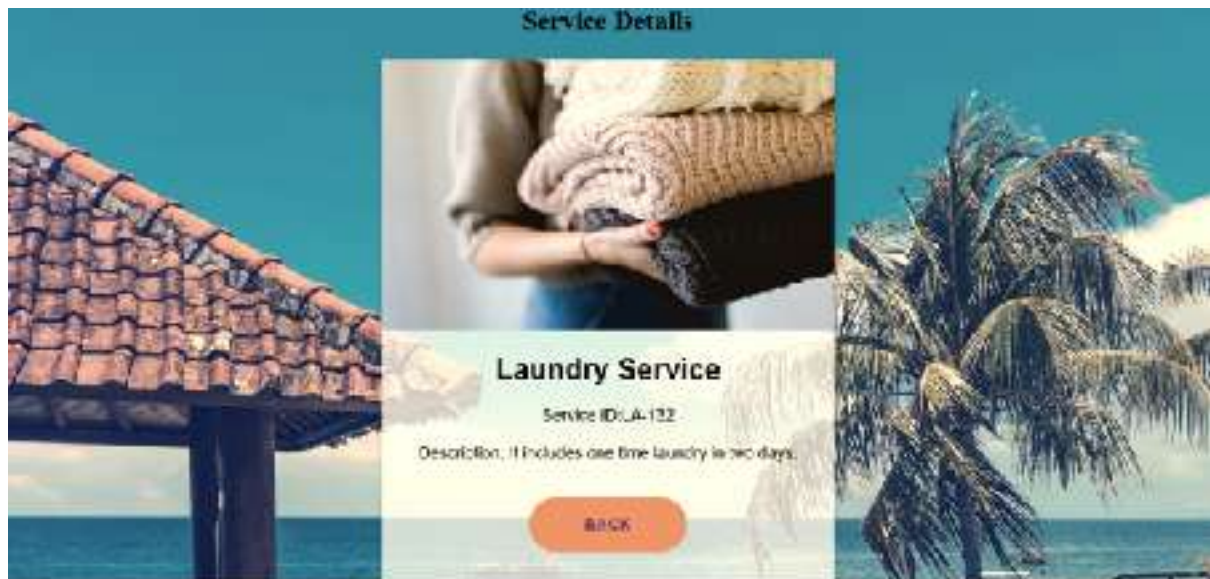
Sub User Story 9.1

Food Service



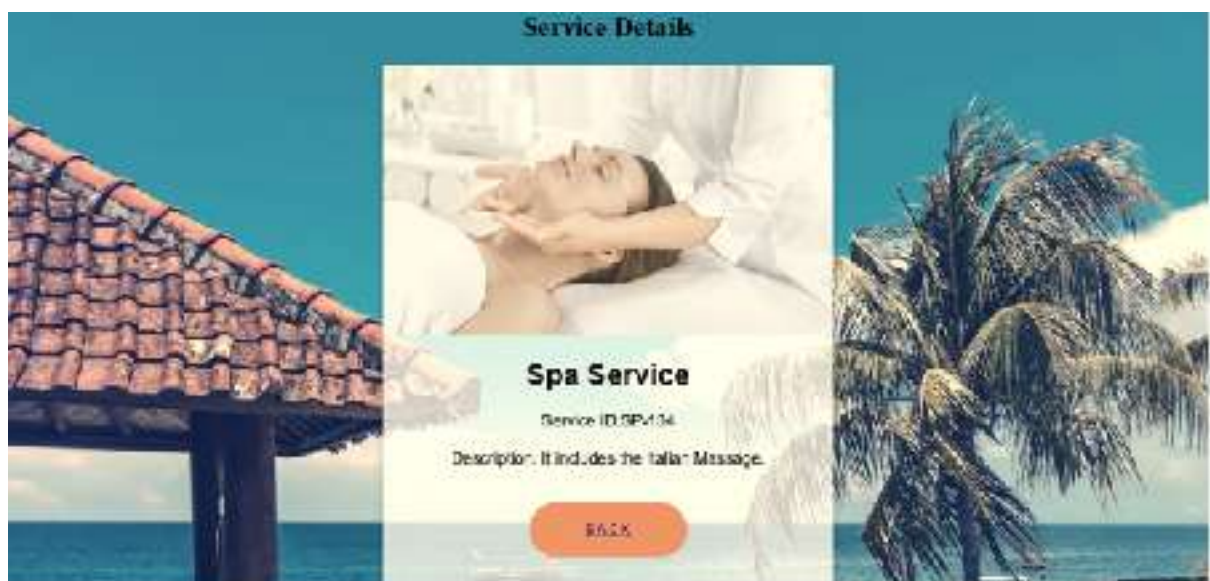
Sub User Story 9.2

Laundry Service



Sub User Story 9.3

Spa Service

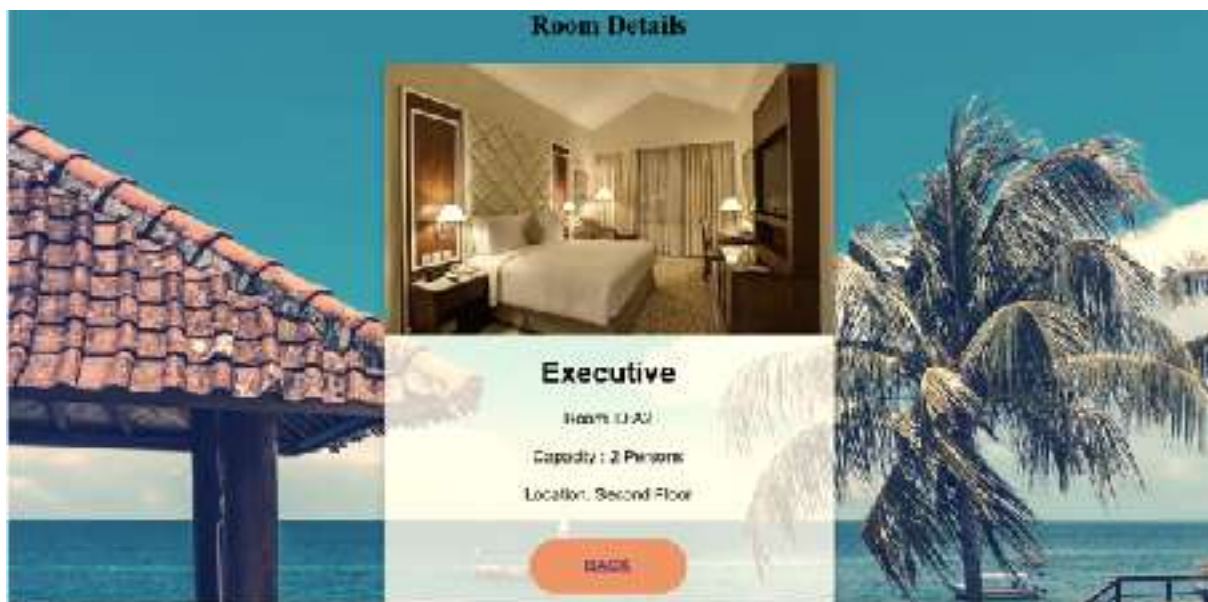


User Story 10

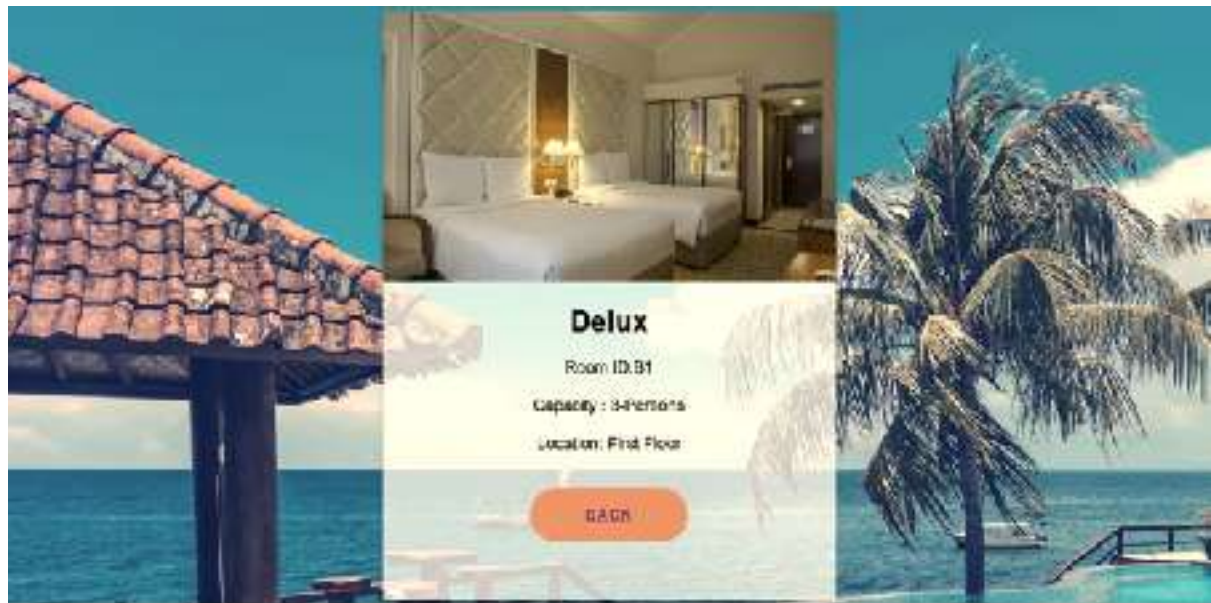
View Rooms



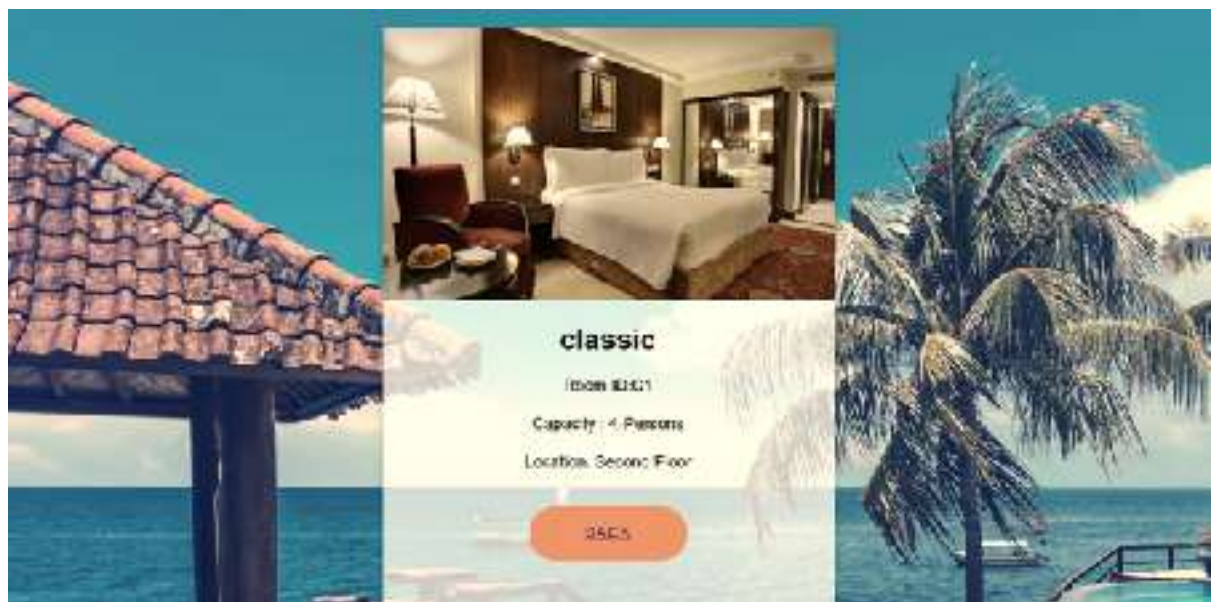
Executive Rooms



Deluxe Rooms



Classic Rooms



User Story 11

Make Booking

1. Enter Details



Make Your Reservation

Customer Name:

Room No: Room Type:

Check-in Date: Check-out Date:

Discount:

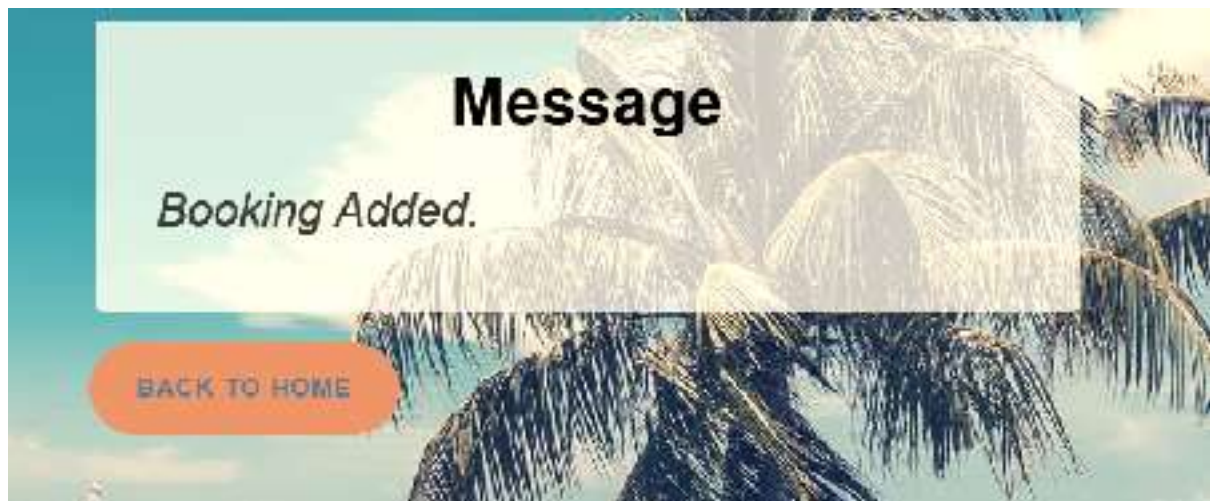
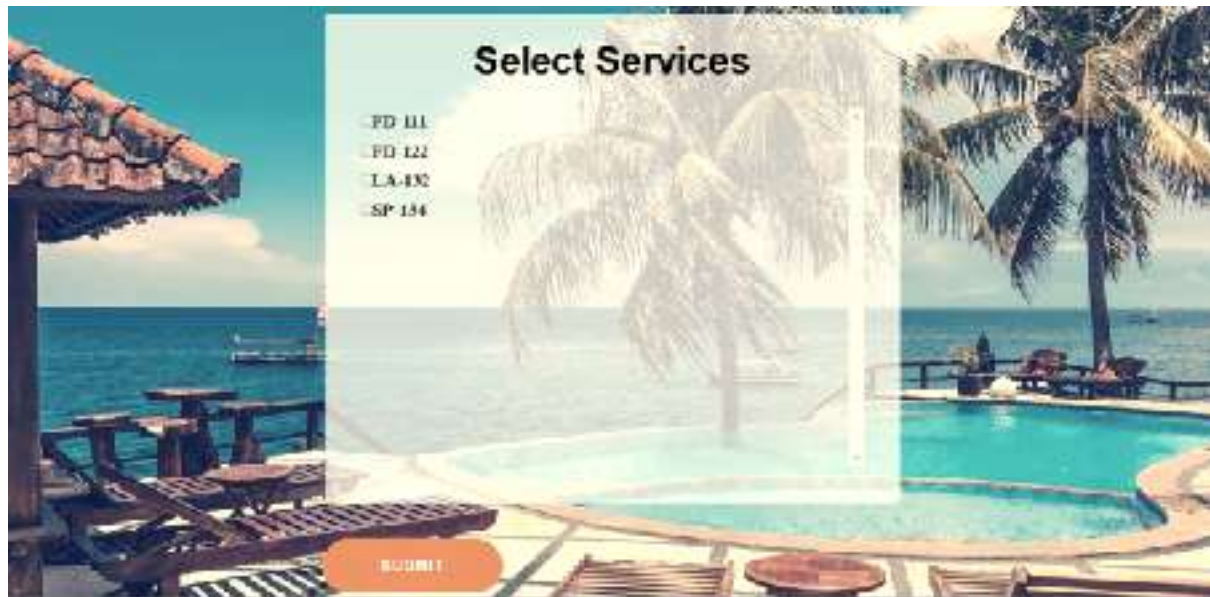
2. Select Rooms (1 to Many Relationship)



Select Room For Booking

☐ RA2
☐ RA3
☐ RA4
☐ RB1
☐ RB2

3. Select Services (Many to Many)



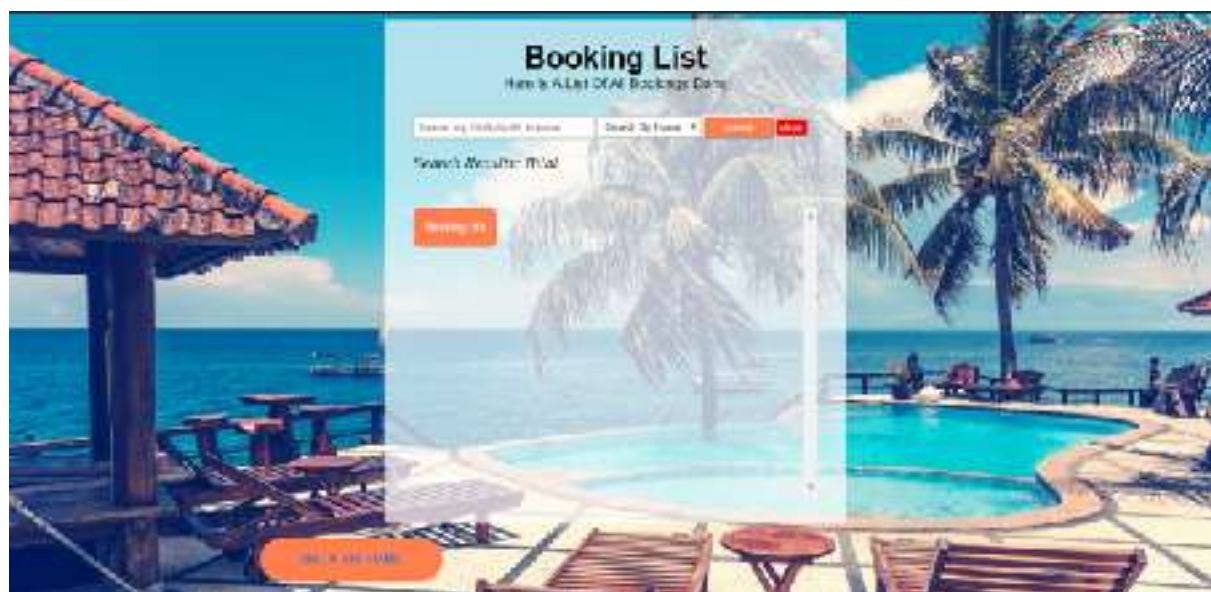
User Story 12

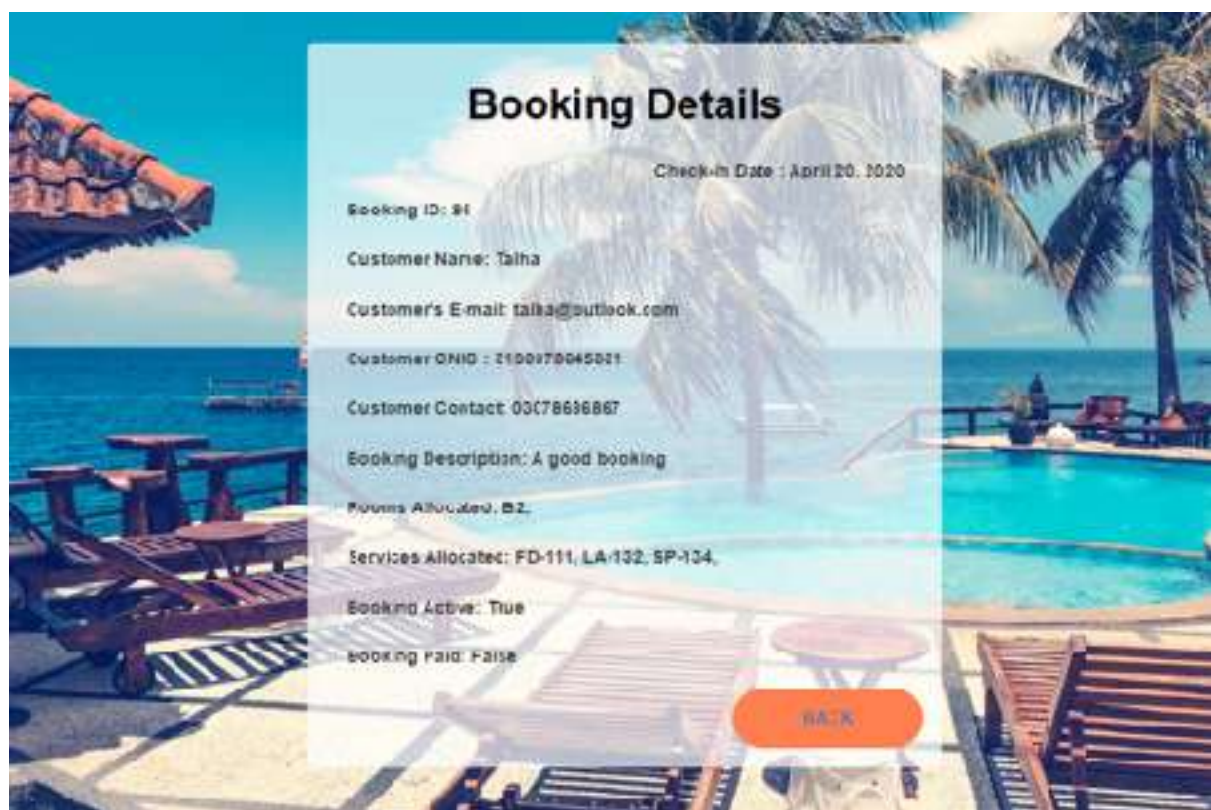
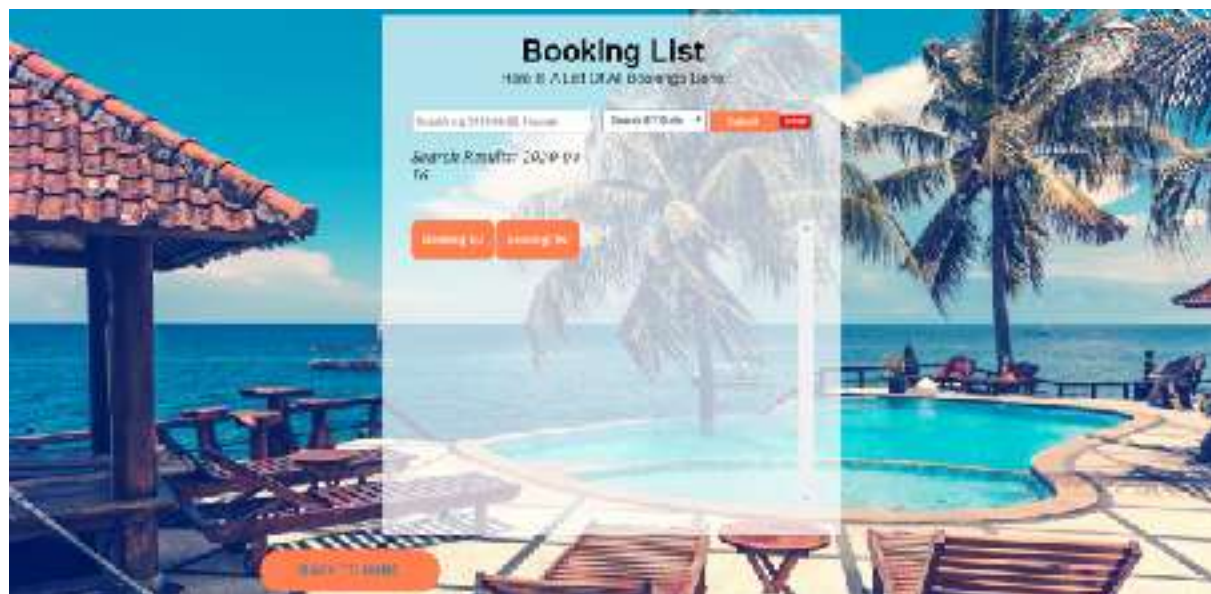
View Bookings

12.1 Search by Name

12.2 Search by Date

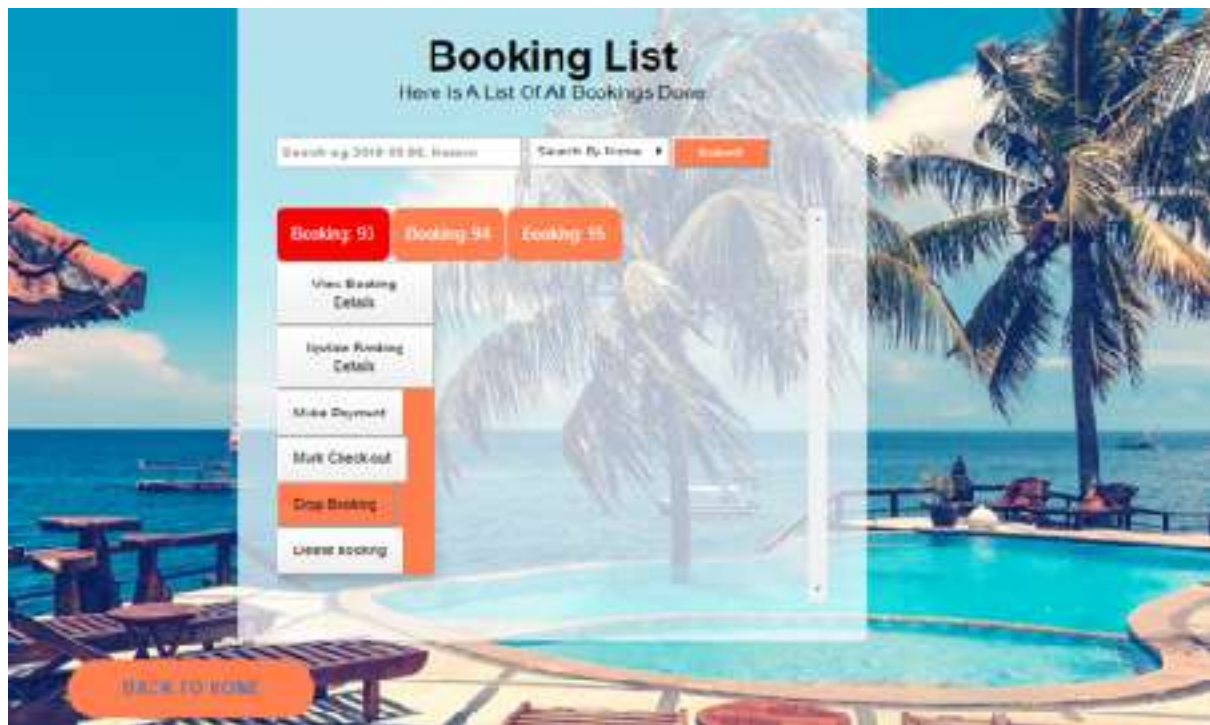






User Story 13

Drop Booking



User Story 14

Update/ Edit Booking



The screenshot shows a mobile application interface for updating a booking. The background is a scenic view of a beach with a swimming pool, lounge chairs, and a palm tree. Overlaid on this is a semi-transparent white form titled "Update Booking". The form contains several input fields for user details, a section for selecting rooms and services, and two large orange buttons at the bottom labeled "UPDATE" and "BACK".

Update Booking

Full Name:

CREATED BY: EDITOR:

EMAIL: PHONE:

ADDRESS:

Rooms: A4 B7 B2

Services: FD-111 FD-122 FD123 LA-132 SP-134

UPDATE

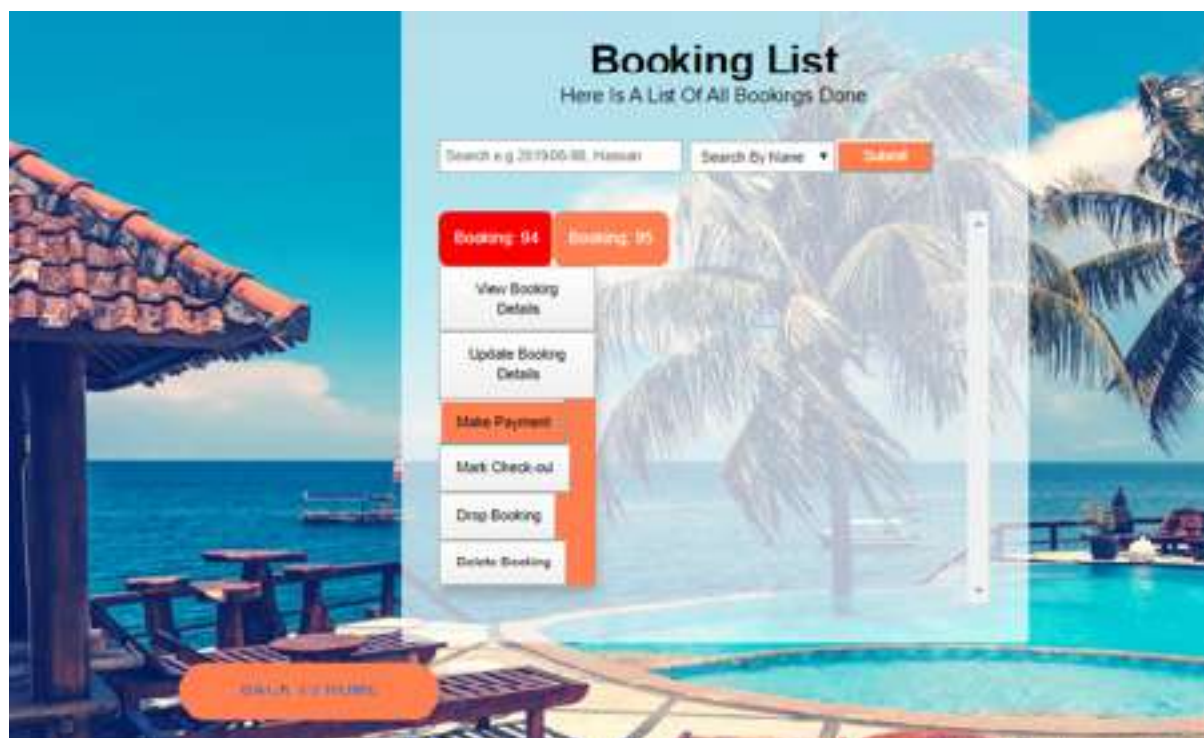
BACK

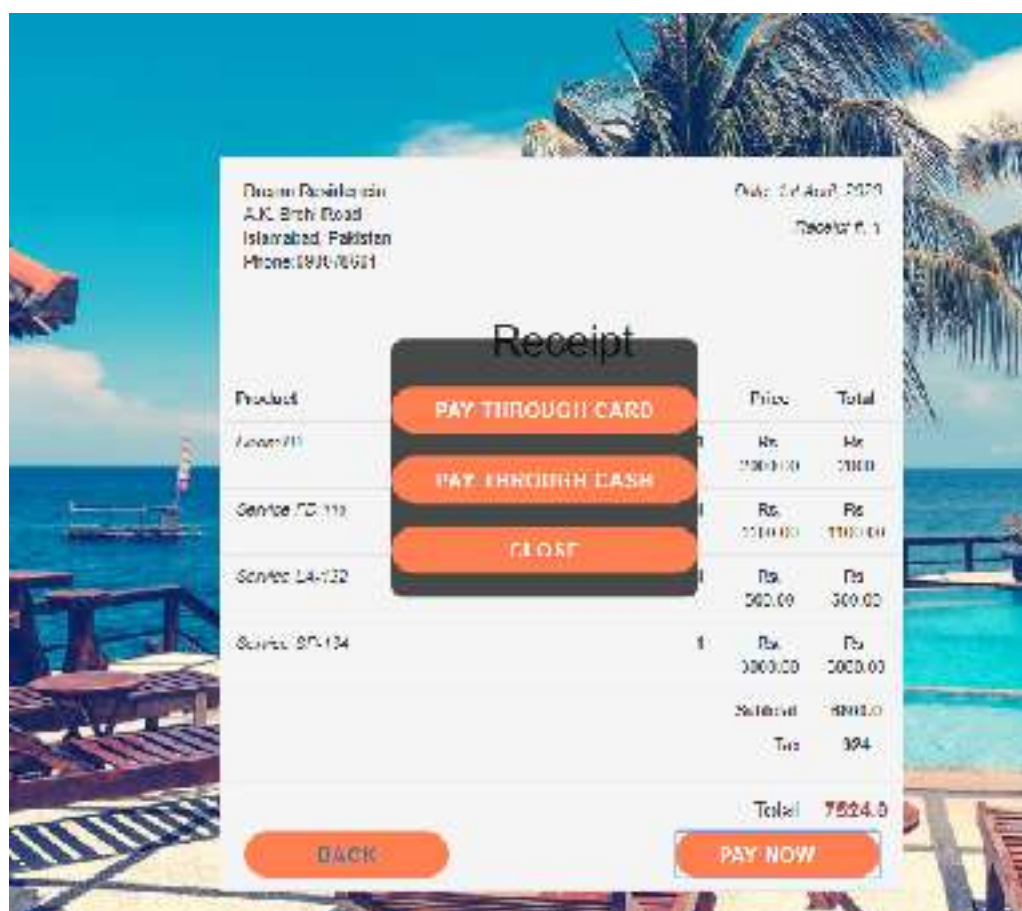
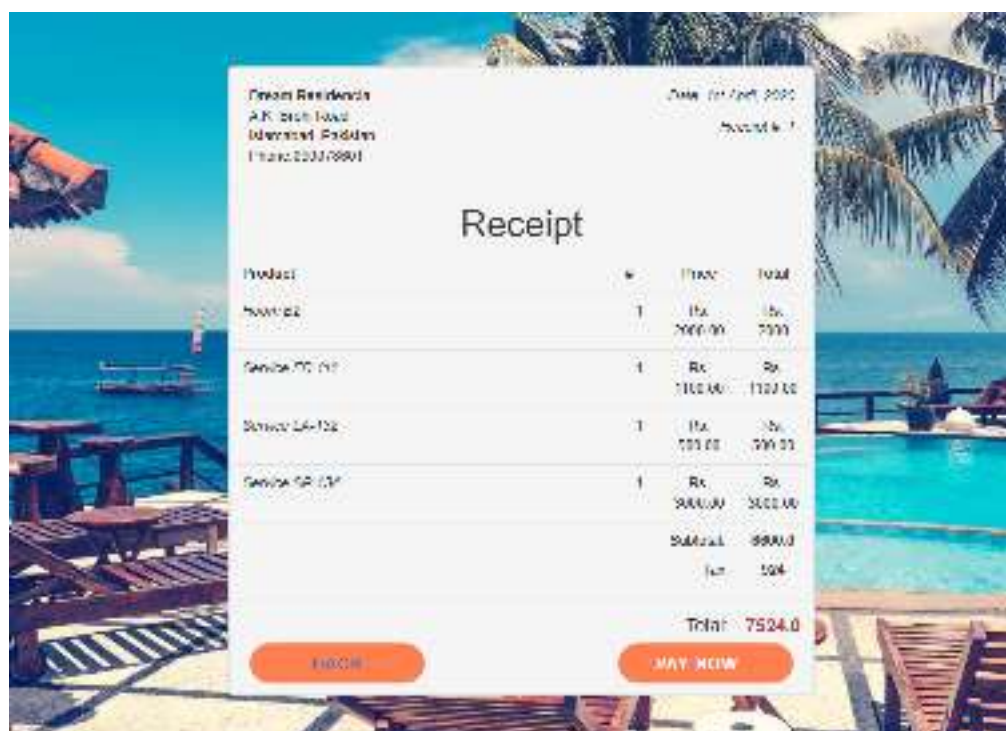
User Story 15

Add Payment

15.1 Pay by card

15.2 Pay by cash





Dream Residence
A.K. Brolu Road
Islamabad, Pakistan
Phone:0900/0001

Date: 1st April, 2020
Receipt #: 7

Enter Amount
Receipt

Enter Amount

ENTER

CLOSE

Product		Price	Total
Room 02		Rs. 2000.00	Rs. 2000
Service RD 111		Rx. 1100.00	Rx. 1100.00
Service L A-132		Rn. 500.00	Rn. 500.00
Service SA-114	1	Rs. 3000.00	Rs. 3000.00
		Subtotal	8600.0
		Tax	624
		Total	7524.0

BACK

PAY NOW

Make Payment For booking

Billing Address

Full Name

Name

Email

123@example.com

Address

street 24 Islamabad

City

Islamabad

Country

Pakistan

Zip

60001

Payment

Accepted Cards

visa

master

amex

Discover

Name on Card

Taha Hazz

Credit card number

1111-2222-3333-4444

Exp Month

September

Exp Year

2018

MAKE PAYMENT

BACK

User Story 16

Booking Report

DreamRahimul
 A.C. 3rd Road
 Islamabad, Pakistan
 Phone 350974501

Date: April 20, 2020

Bookings Report

Date From: 10/04/2020
 Date To: 20/04/2020
 Submit

Name	Check-IN	Check-OUT	Email	Contact	Status
Das	April 15, 2020	April 20, 2020	bbblek100@gmail.com	0300130802	Dropped
Taha	April 15, 2020	None	whu@outlook.com	0300781772	Active
Azma	April 15, 2020	None	amir@outlook.com	03107002107	Active

Bookings Analysis

Total Active Bookings : 2
 Total Dropped-Out Bookings: 1
 Total Finished Bookings: 0
 Total: 3

BACK TO HOME

User Story 17

Finance Report

DreamRahimul
 A.C. 3rd Road
 Islamabad, Pakistan
 Phone 350974501

Date: April 20, 2020

Finance Report

Date From: 10/04/2020
 Date To: 20/04/2020
 Submit

Name	Check-IN	Check-OUT	Total Amount	Final Amount	Status
Das	April 15, 2020	April 20, 2020	0.00		Dropped
Taha	April 15, 2020	None	1500.00	1500.00	Active
Azma	April 15, 2020	None	1500.00	1500.00	Active

Finance Analysis

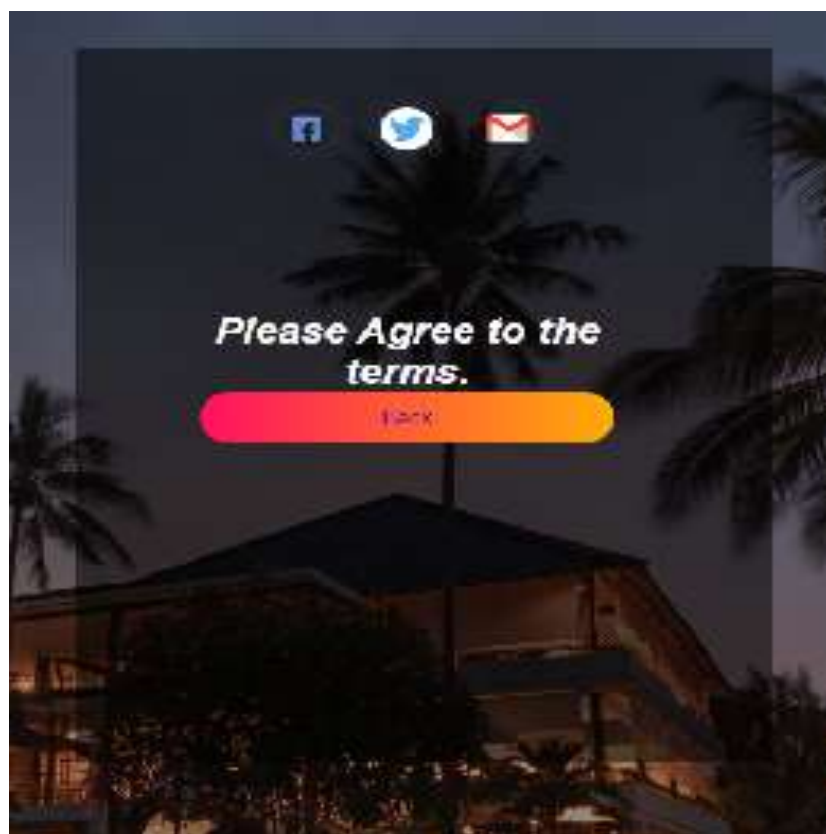
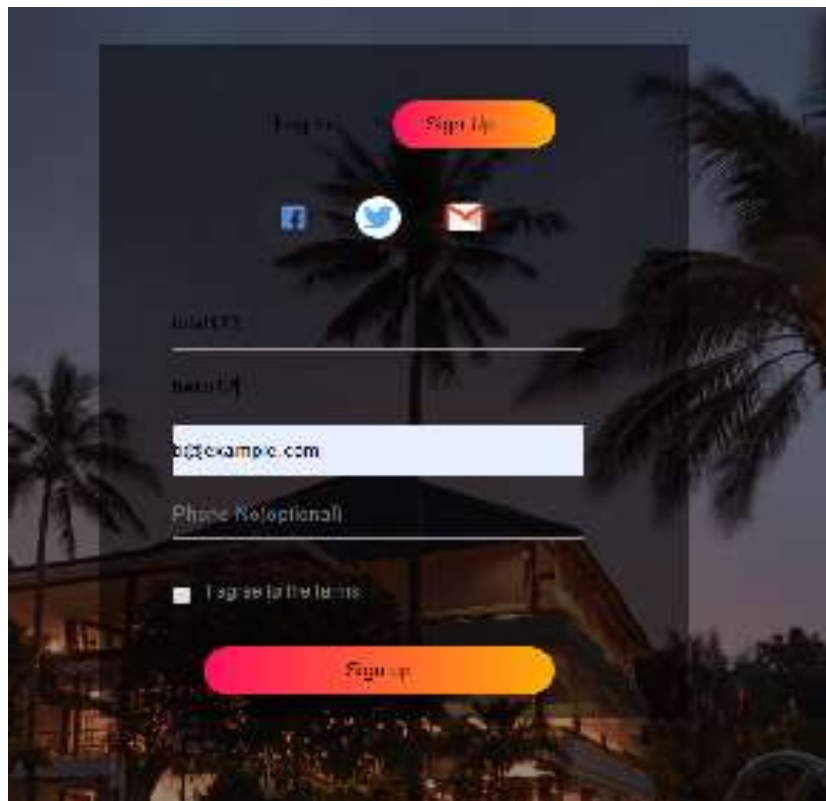
Total Amount: Rs. 30780.00
 Total Earnings: Rs. 30780.00
 Loss: Rs. 0.00

BACK TO HOME

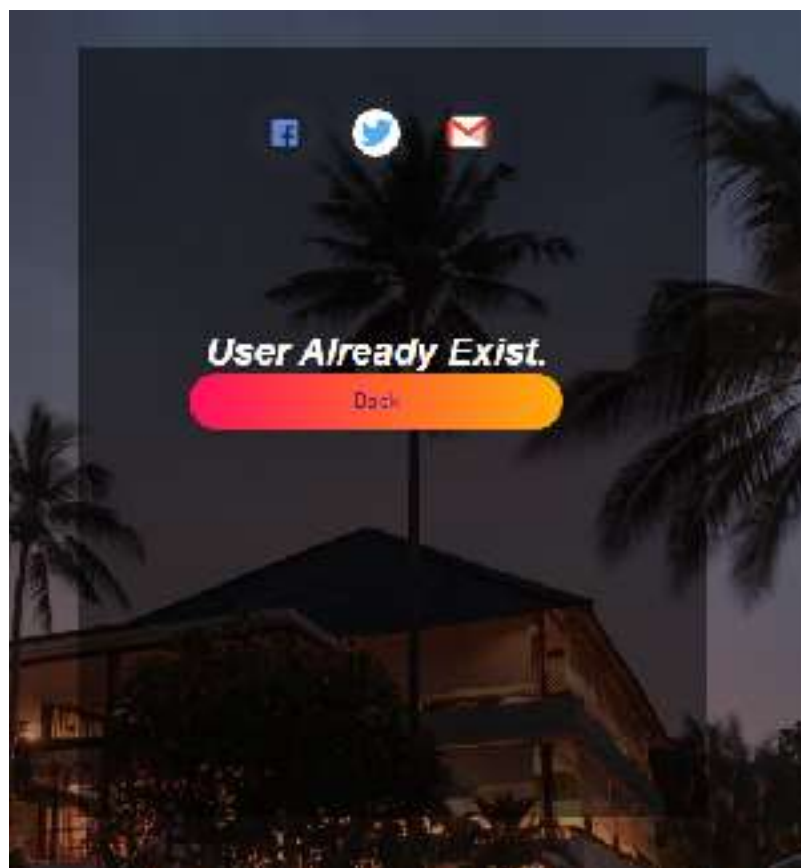
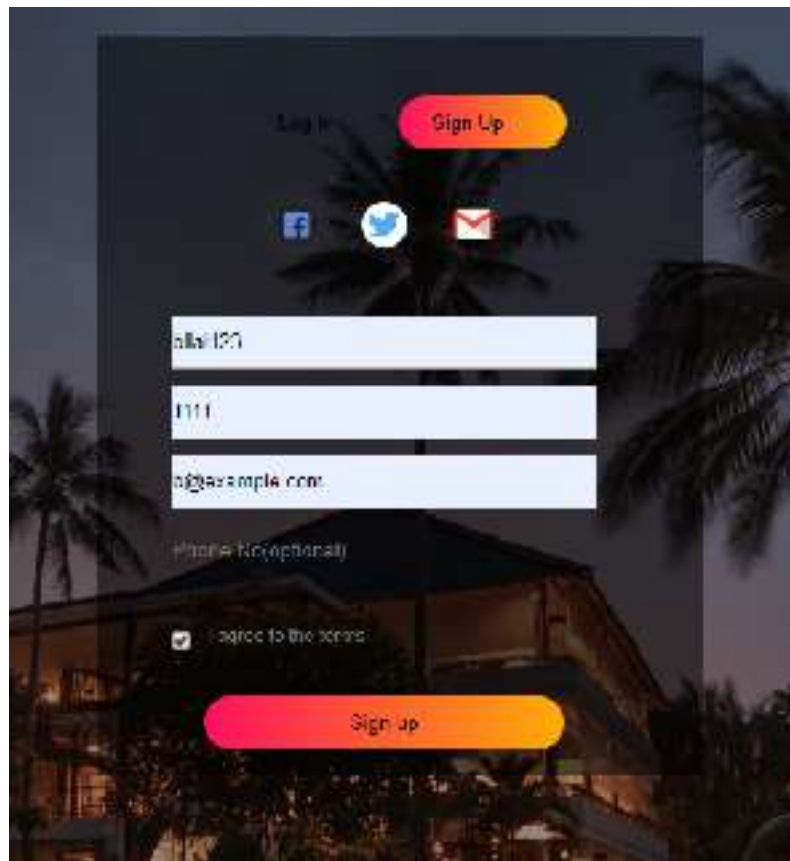
TEST CASES

User Story 1

Uncheck terms box so Account is not created



User Already Exist



Email Already Exists

Log In Sign Up

Facebook Twitter Email

Username

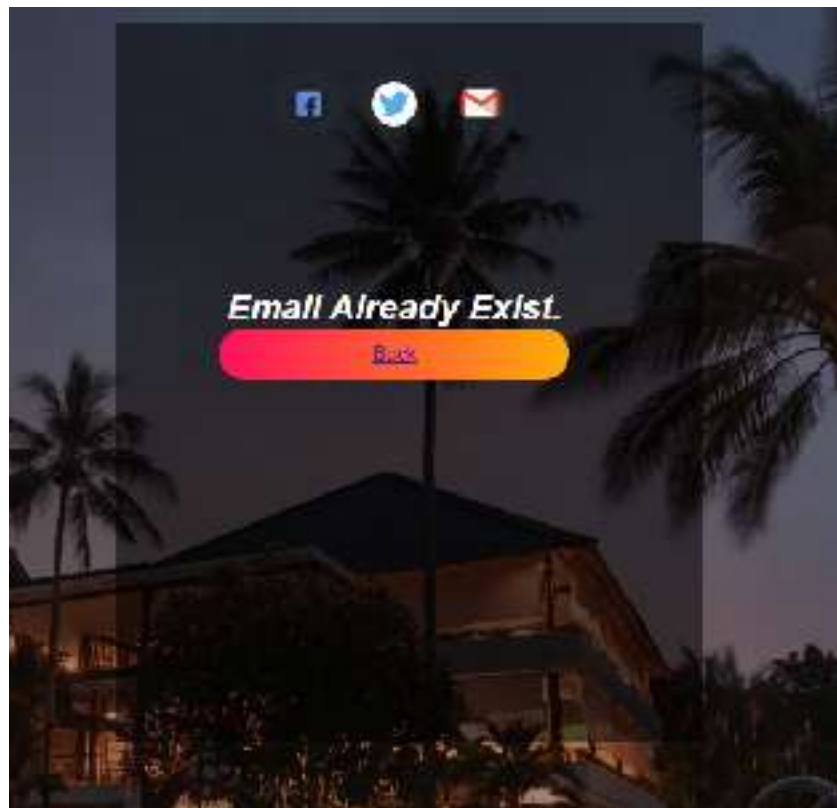
1111

b@example.com

Phone No (optional)

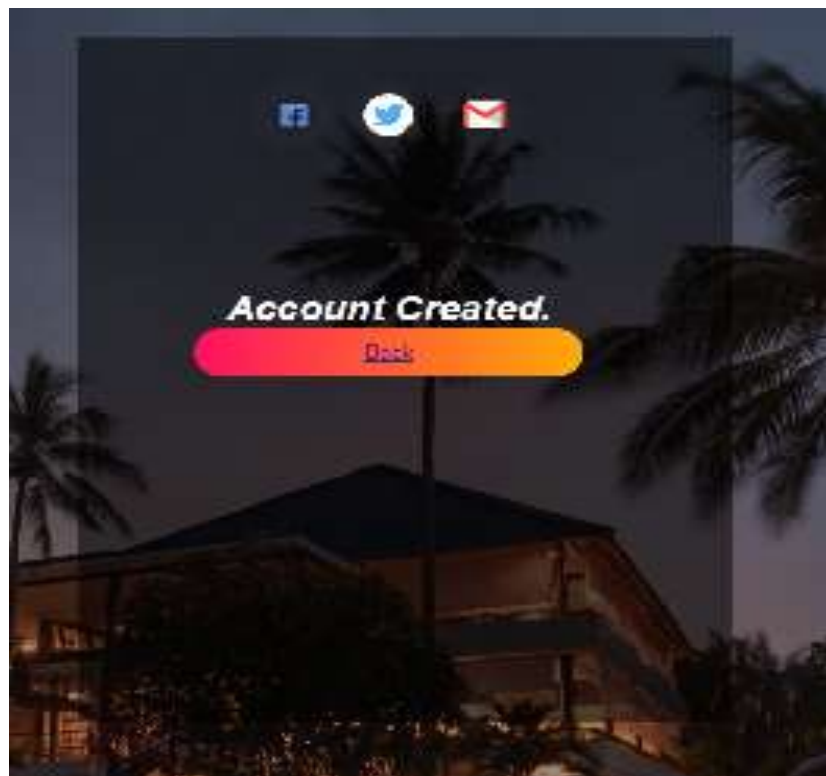
☒ I agree to the terms.

Sign up



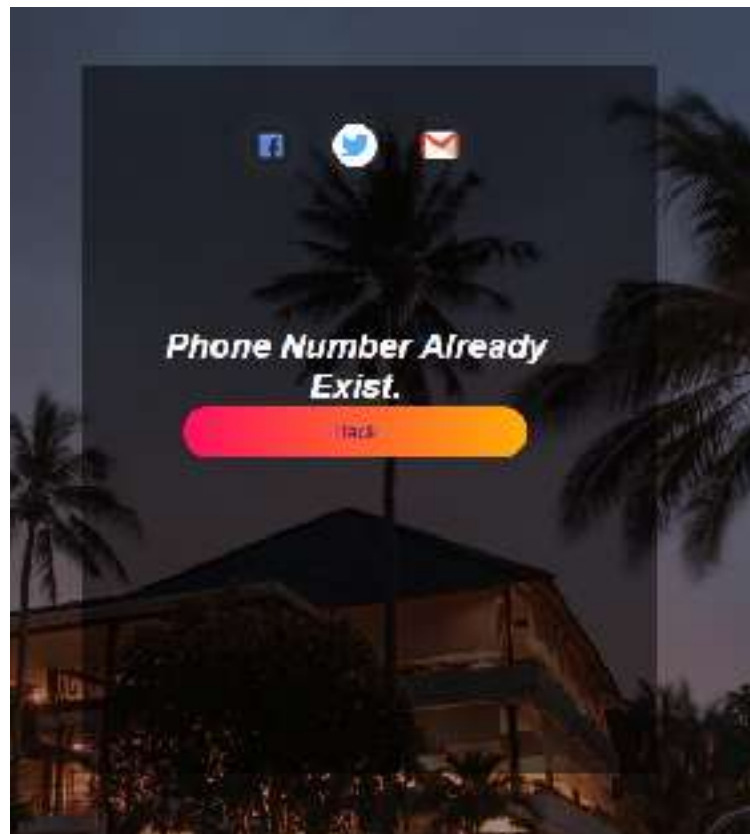
Account Creation Using Phone No.

A screenshot of a sign-up form with a dark background featuring palm trees and a building at night. At the top, there are three social media icons: Facebook, Twitter, and Email. Below them, there is a "Sign Up" button. The form contains the following fields: "Phone No." with the value "094129145", "City" with the value "1111", "Email ID (Optional)" with the value "09854321098", and a checkbox labeled "I agree to the terms:". At the bottom, there is a red button with the text "Sign up".

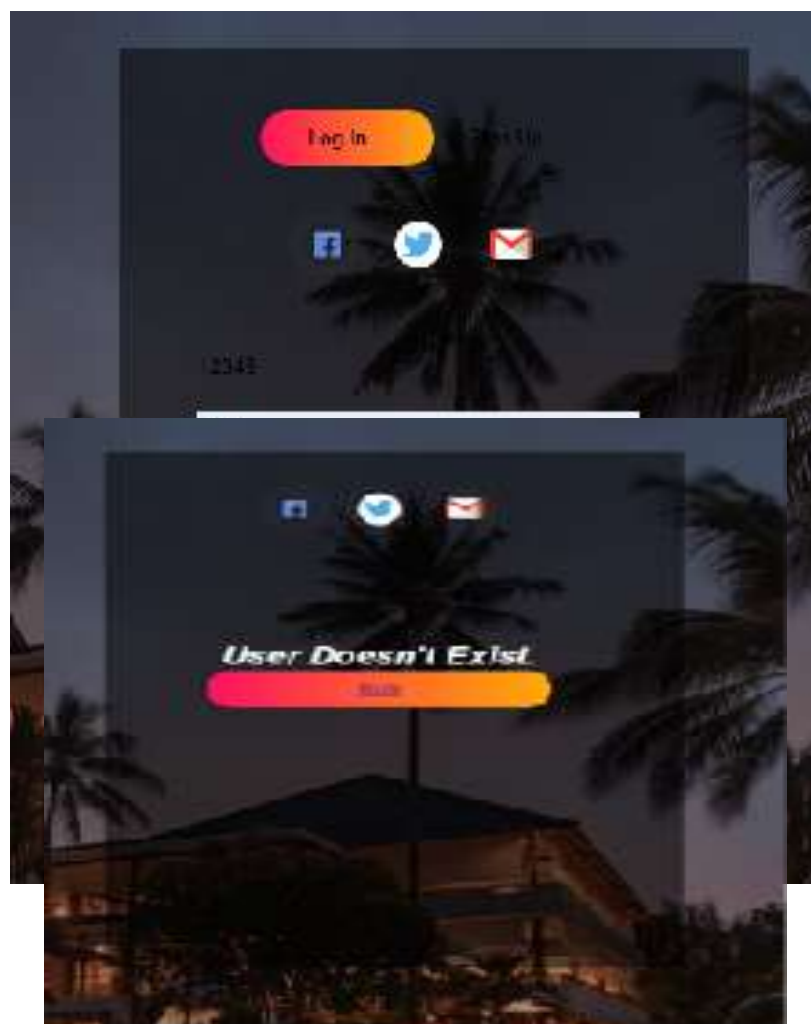


Phone Already Exist.

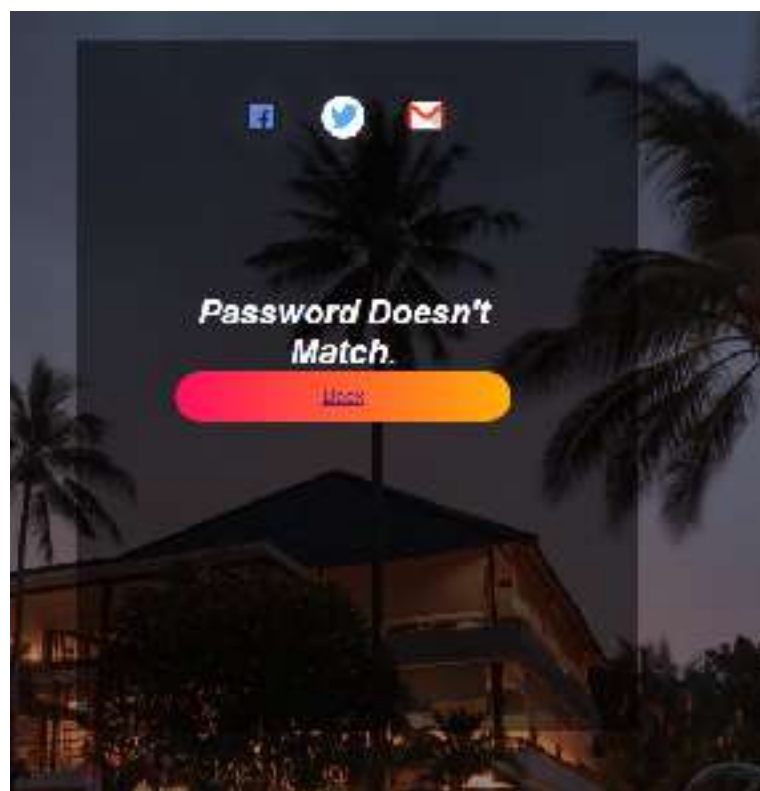
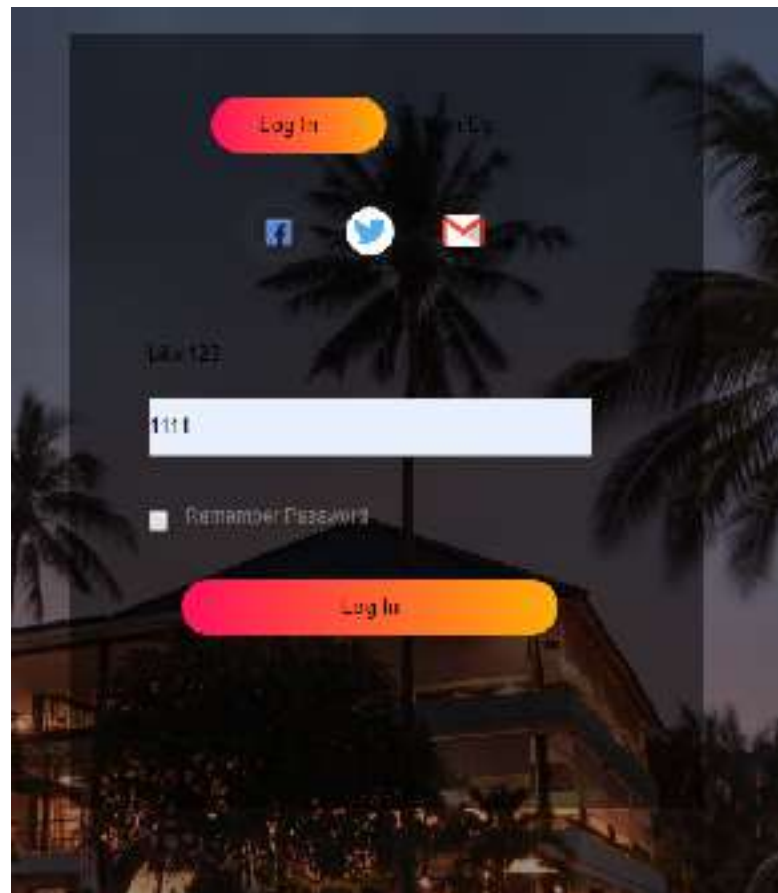
A sign-up form on a dark background with palm trees and a building at night. At the top, there are two buttons: "Log In" and "Sign Up". Below these are three social media icons: Facebook, Twitter, and Email. The form includes a "Name" label, a text input field containing "1111", an "Email ID(Optional)" label, and another text input field. At the bottom, there is a checkbox labeled "I agree to the terms" which is checked, and a "Sign up" button with a red-to-orange gradient.



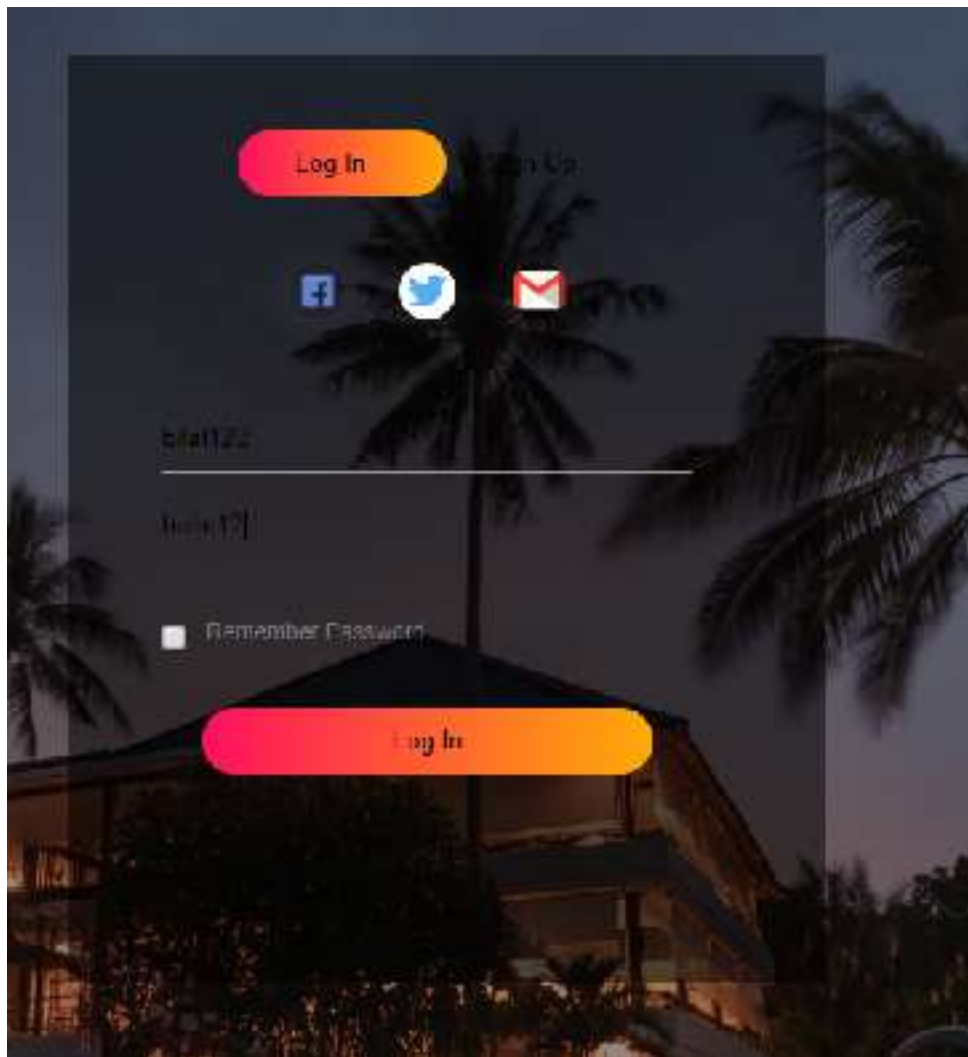
User Story 2
User Doesn't Exist



User Exist but password doesn't match

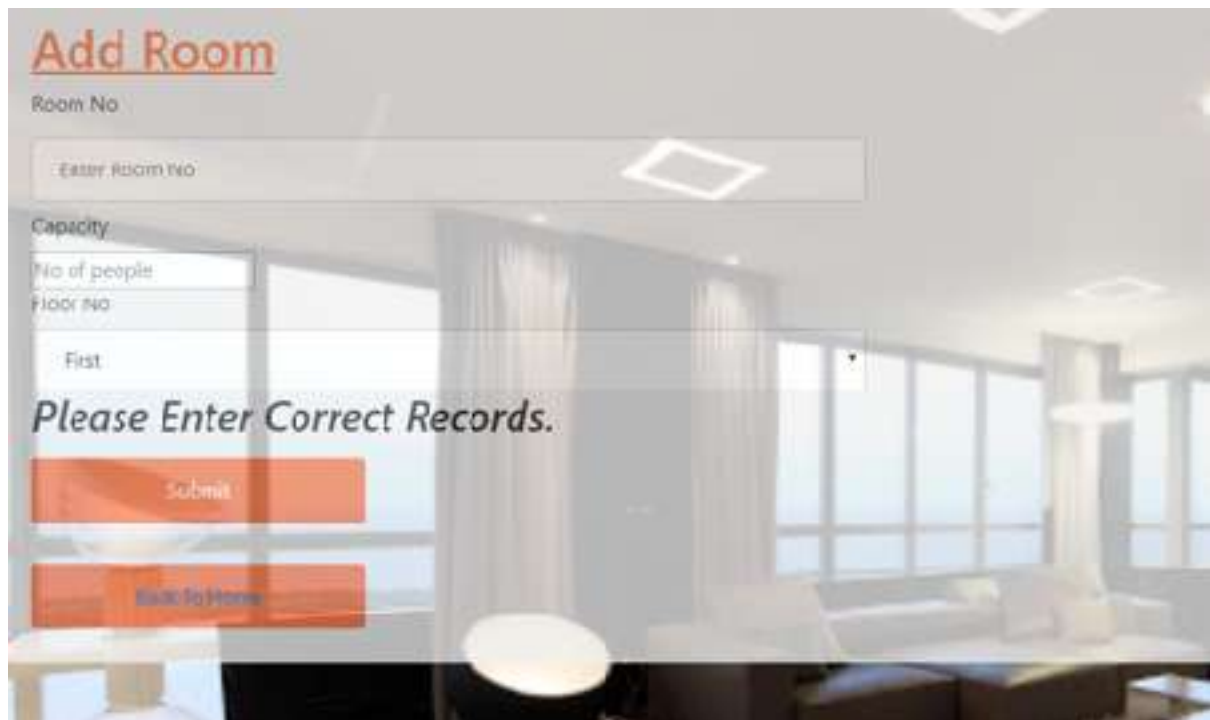


User Logged In



User Story 3

Enter correct record to add a room



The screenshot displays a web application interface for adding a room. The background is a blurred image of a modern office interior with large windows and contemporary furniture. The form is titled "Add Room" in a large, bold, orange font. Below the title, there are four input fields: "Room No" (with a placeholder "Enter Room No"), "Capacity" (with a placeholder "No of people"), "Floor No", and "First". A red error message, "Please Enter Correct Records.", is prominently displayed in the center of the form. At the bottom of the form, there are two orange buttons: "Submit" and "Back To Home".

Add Room

Room No
Enter Room No

Capacity
No of people

Floor No

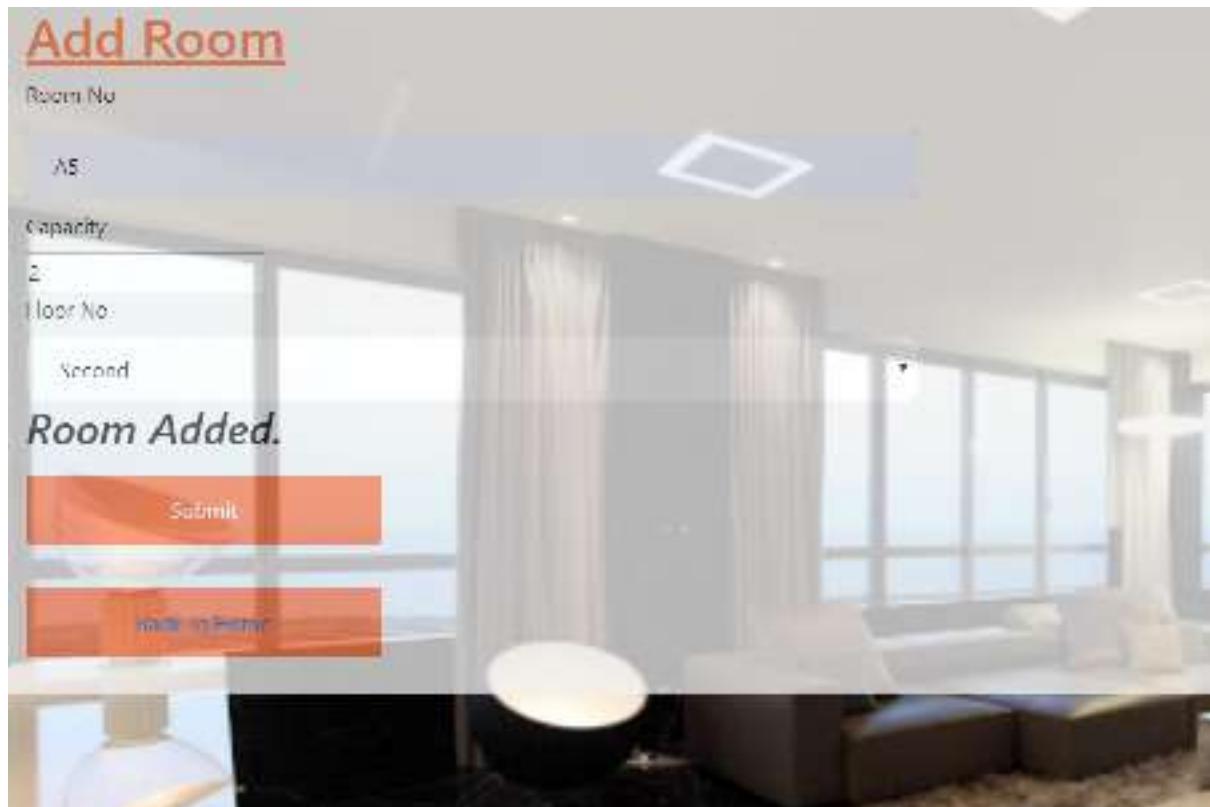
First

Please Enter Correct Records.

Submit

Back To Home

Room Added



Add Room

Room No
A5

Capacity
2

Floor No
Second

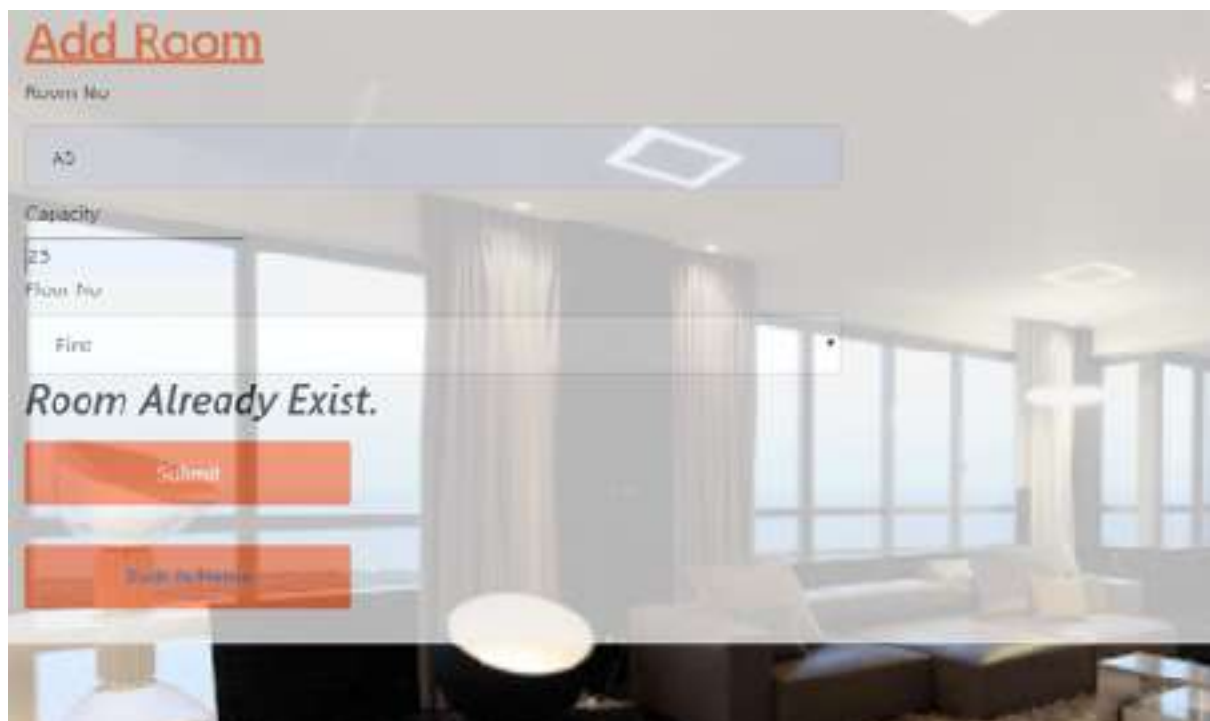
Room Added.

Submit

Back to Home

The screenshot shows a web form titled 'Add Room' overlaid on a background image of a modern living room. The form fields are filled with 'A5' for Room No, '2' for Capacity, and 'Second' for Floor No. A green message 'Room Added.' is displayed below the form. Two orange buttons, 'Submit' and 'Back to Home', are at the bottom of the form.

Room Already Exist



Add Room

Room No
A5

Capacity
25

Floor No
First

Room Already Exist.

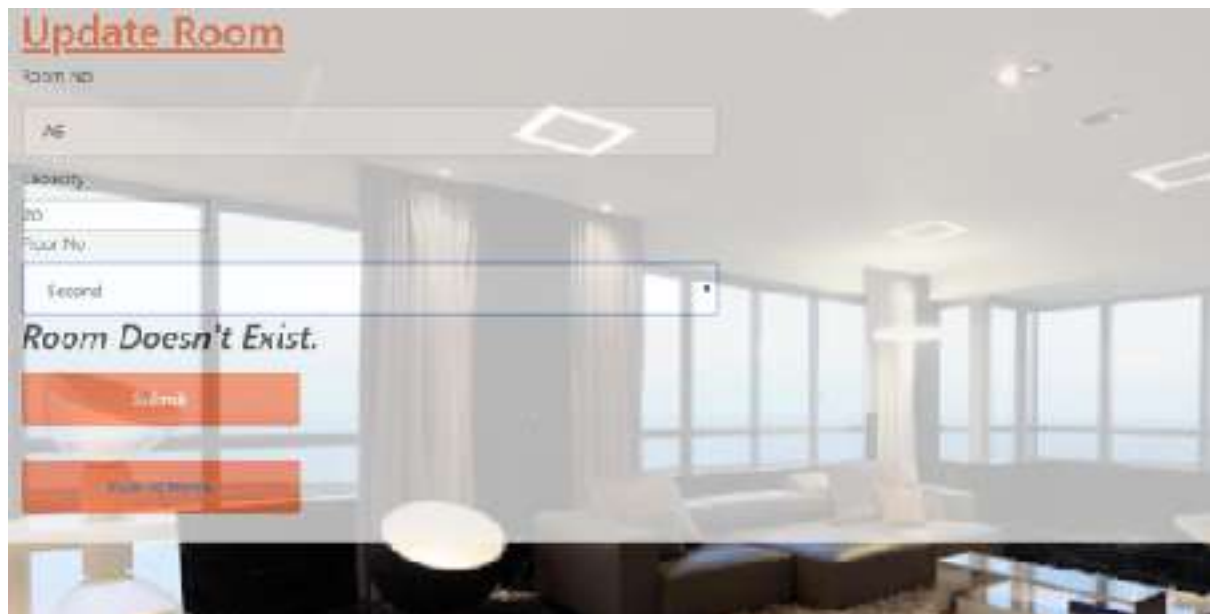
Submit

Back to Home

This screenshot shows the same 'Add Room' form, but with an error message 'Room Already Exist.' displayed in green. The form fields contain 'A5' for Room No, '25' for Capacity, and 'First' for Floor No. The 'Submit' and 'Back to Home' buttons remain at the bottom.

User Story 4

Room Doesn't Exist



User Story 5

Room Doesn't Exist

1 Room Doesn't Exist



User Story 6

Enter Id to ADD Service



Service Already Exist



Service Added



User Story 7

Service Doesn't Exist to Update



Service Updated



User Story 8

Service Doesn't Exist to Remove



Service Deleted



User Story 11

Phone No. Length must be greater than 11 digits



Make Your Reservation

My Reservation Details

DATE IN
1/01/2002

12

Enter your Email

0000-0000

Booked for

Invalid CNIC NO.(Length Must be 13 Digits)

BOOK NOW

Select Room For Booking

☐ A3

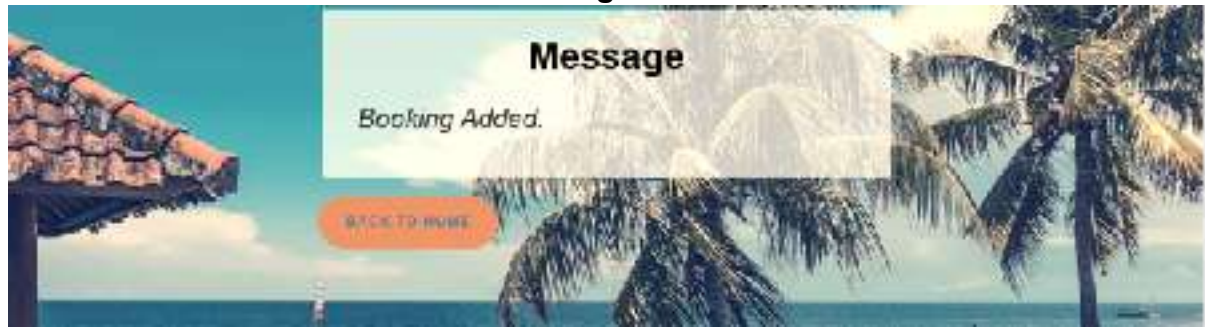
☐ A4

☐ B1

☐ C1

Please Select At Least 1 Room.

Booking Added.

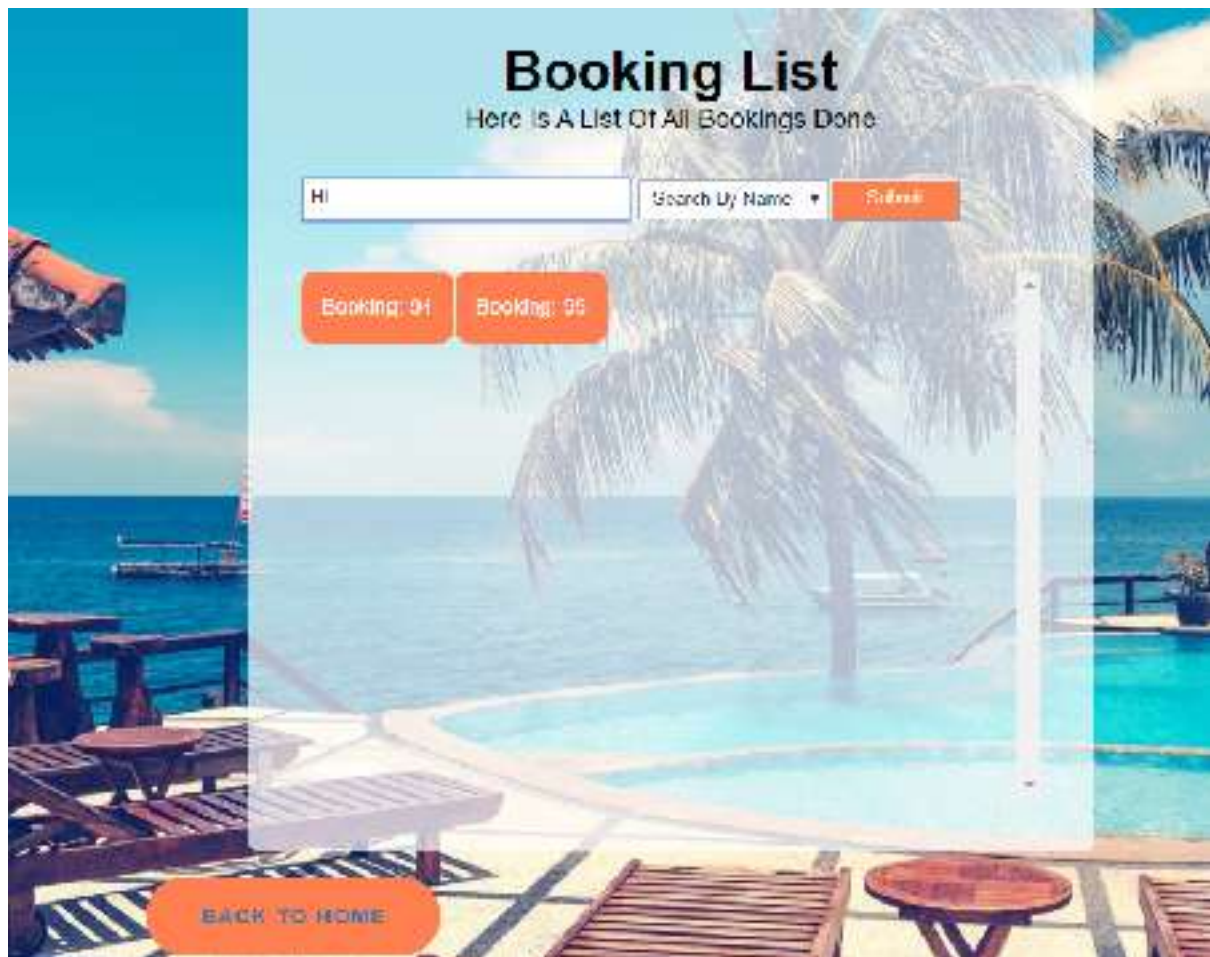


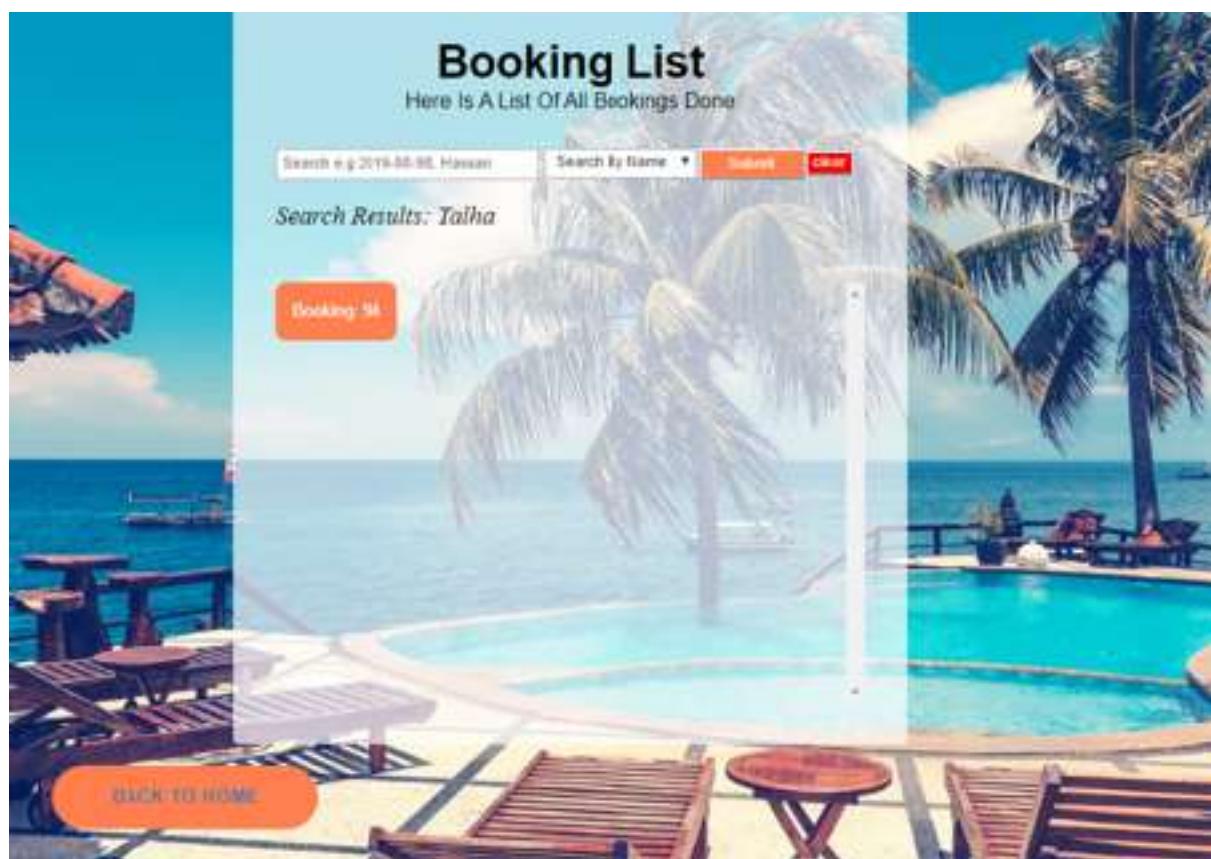
User Story 12

Sub User Story 12.1

Search Booking By Name

- If name not found, throw message.
- Show records that contains the search text

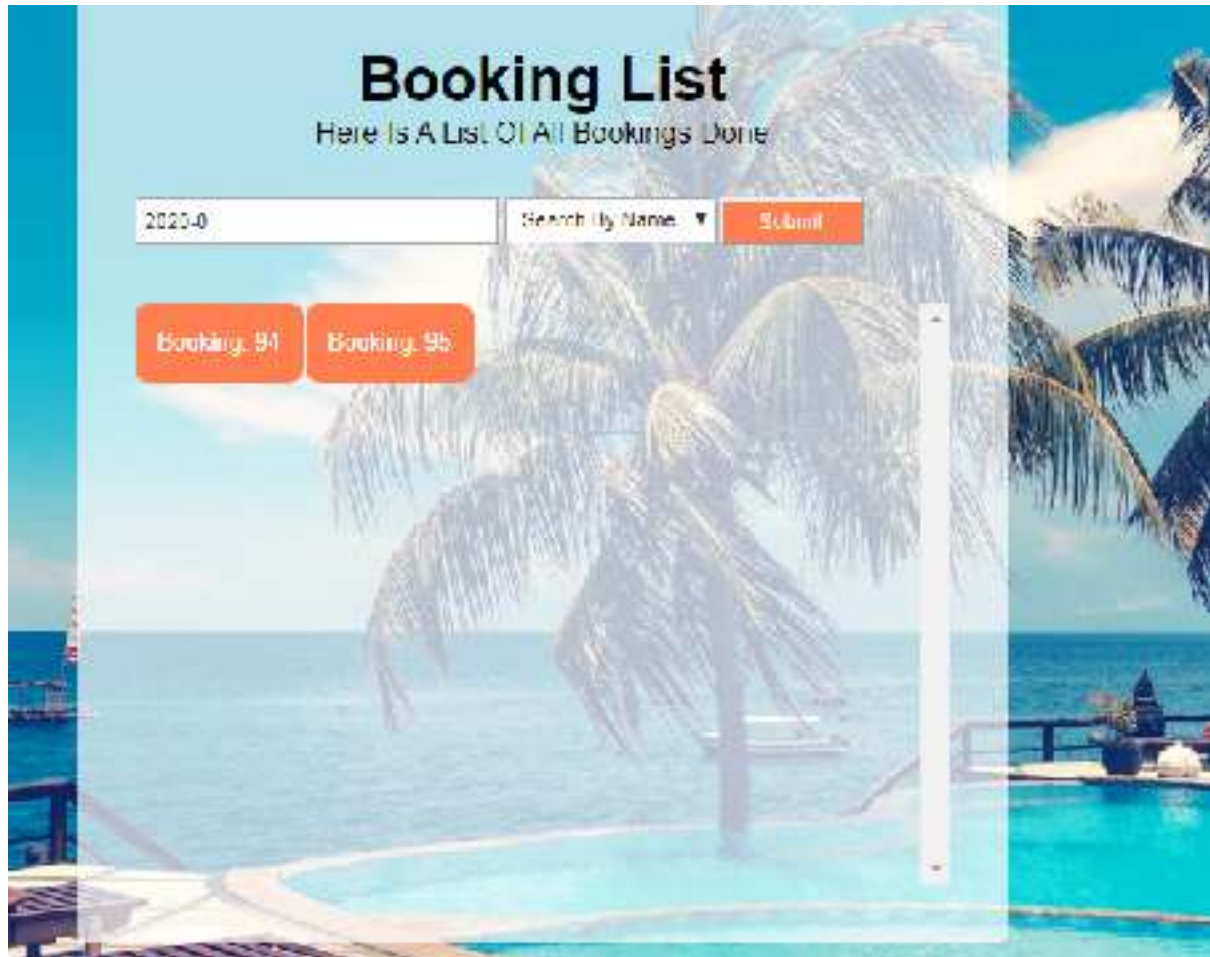


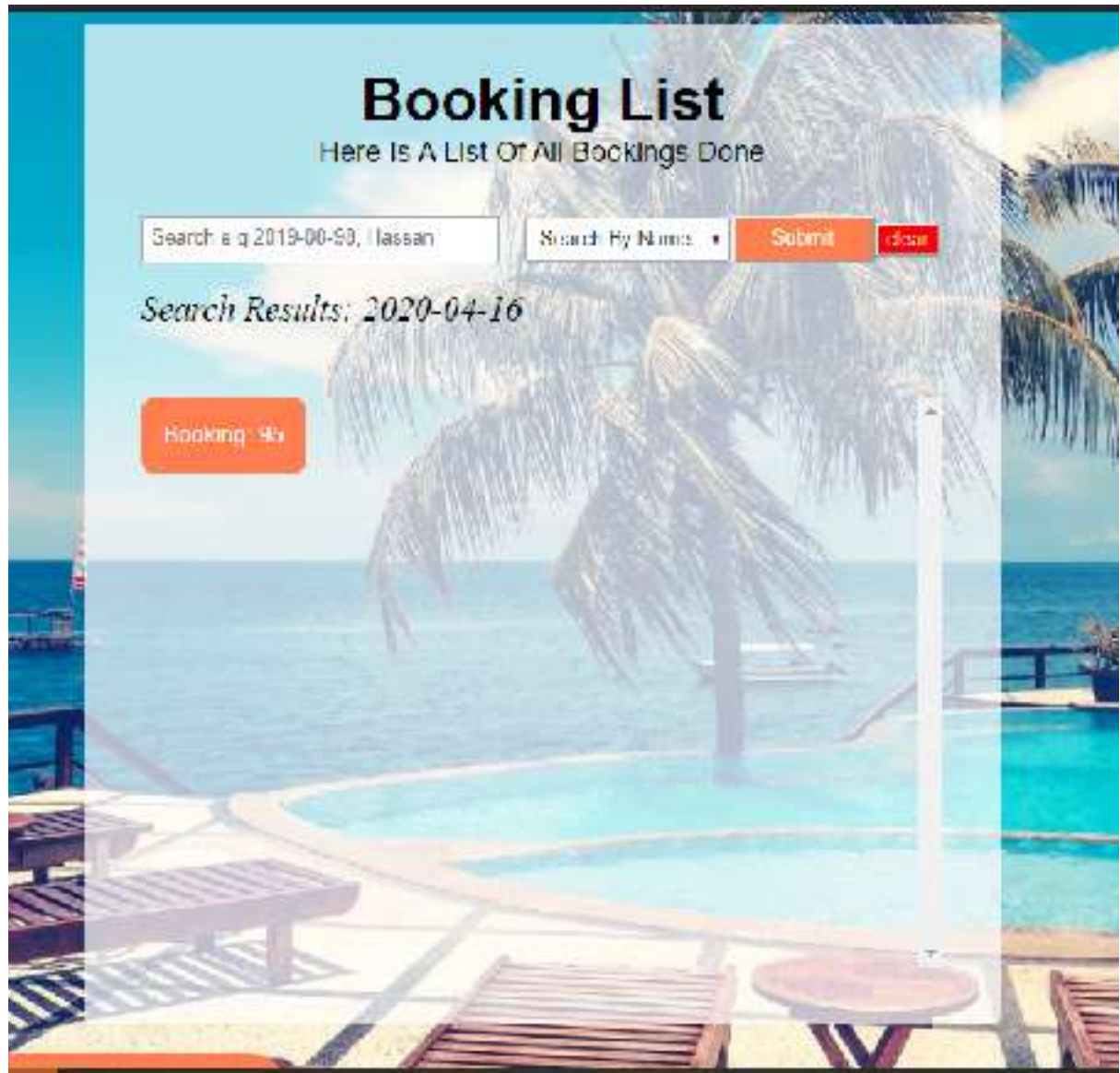


Sub User Story 12.2

Search Booking Date

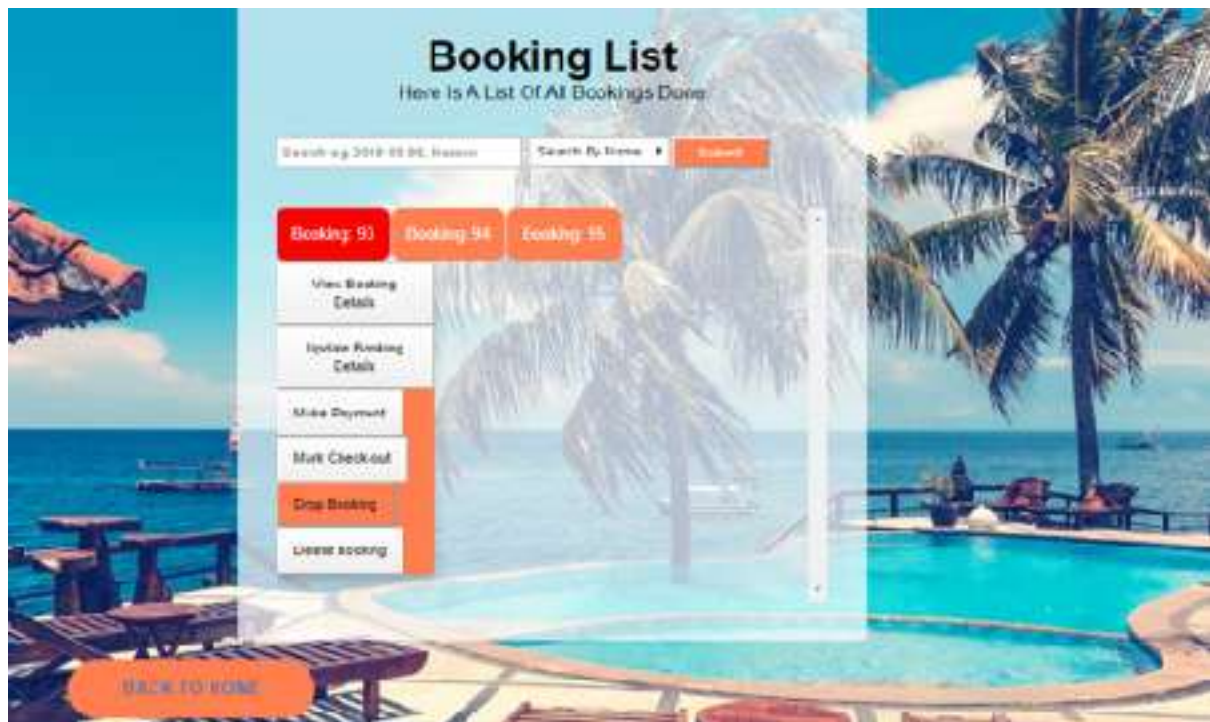
- If format is incorrect, throw error message
- Shows record that was checked-in on the given date





User Story 13

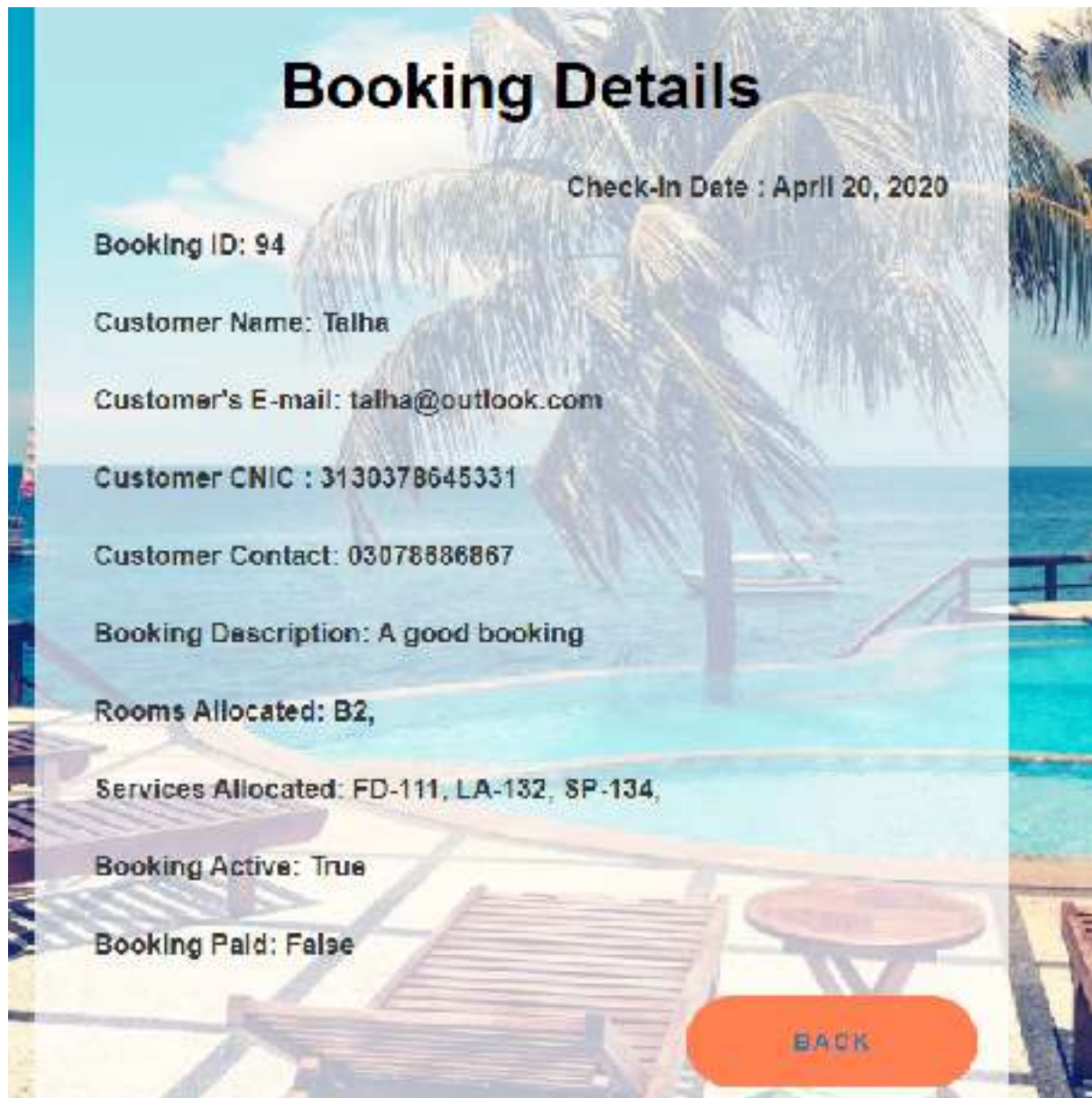
Drop Booking

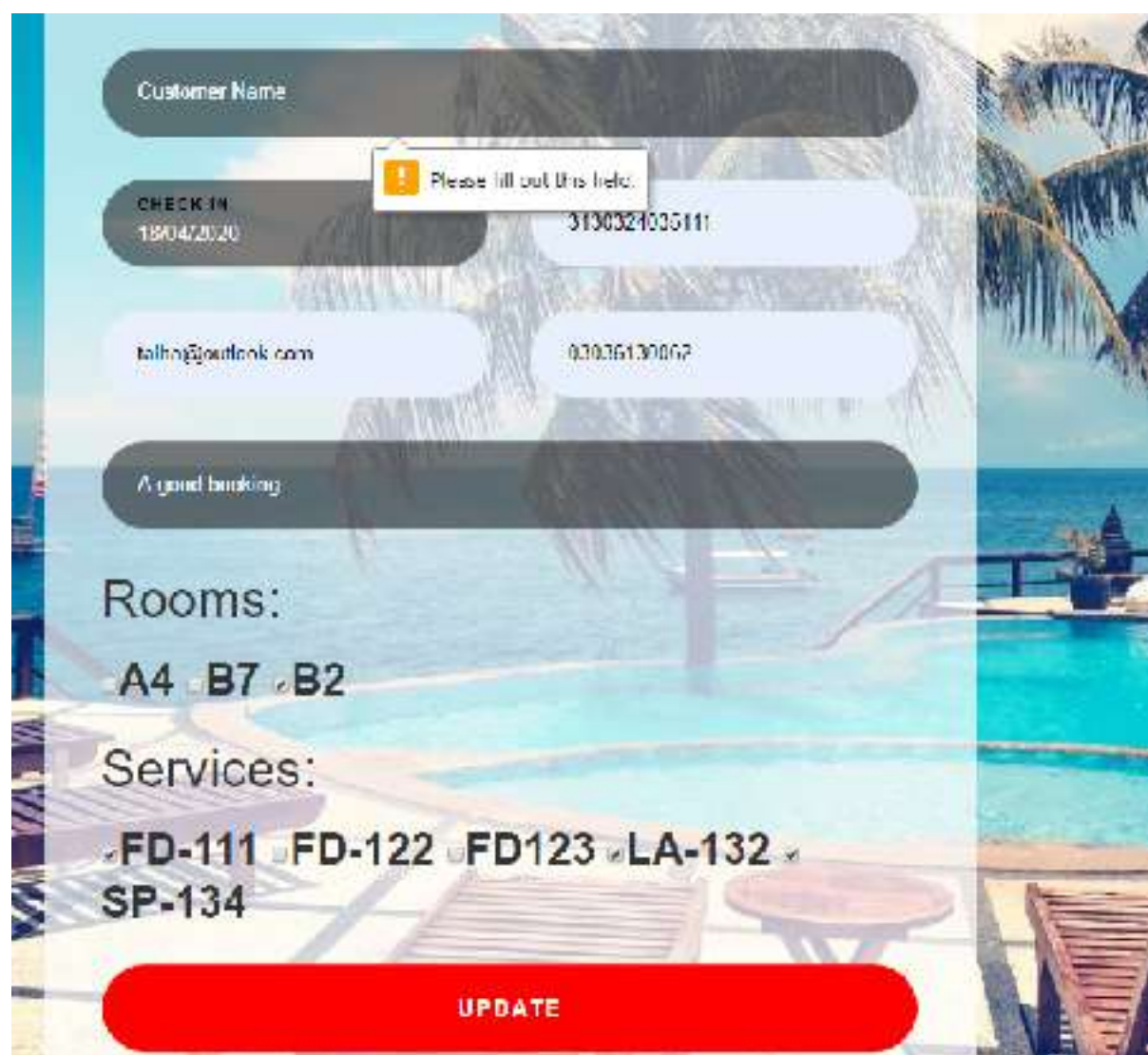


User Story 14

Update Booking

- Before updating





Customer Name

CHECK IN
18/04/2020

3130324035111

313036130062

talha@outlook.com

A good booking

Rooms:

A4 B7 B2

Services:

FD-111 FD-122 FD123 LA-132 ✓
SP-134

UPDATE

Talha

CHECK IN: 15/04/2020

CHECK OUT: 31/03/2020

talha@nutlink.com

Enter your Phone

Please fill out this field

A good booking

Rooms:

☒ A4 ☒ B7 ☐ B2

Services:

☒ FD-111 ☒ FD-122 ☒ FD123 ☒ LA-132 ☐ SP-134

UPDATE

- After updating



Booking Details

Check-In Date : April 18, 2020

Booking ID: 94

Customer Name: Talha

Customer's E-mail: talha@outlook.com

Customer CNIC : 3130378645331

Customer Contact: 08009787787

Booking Description: A good booking

Rooms Allocated: B7,

Services Allocated: FD-122, LA-132, 3P-134,

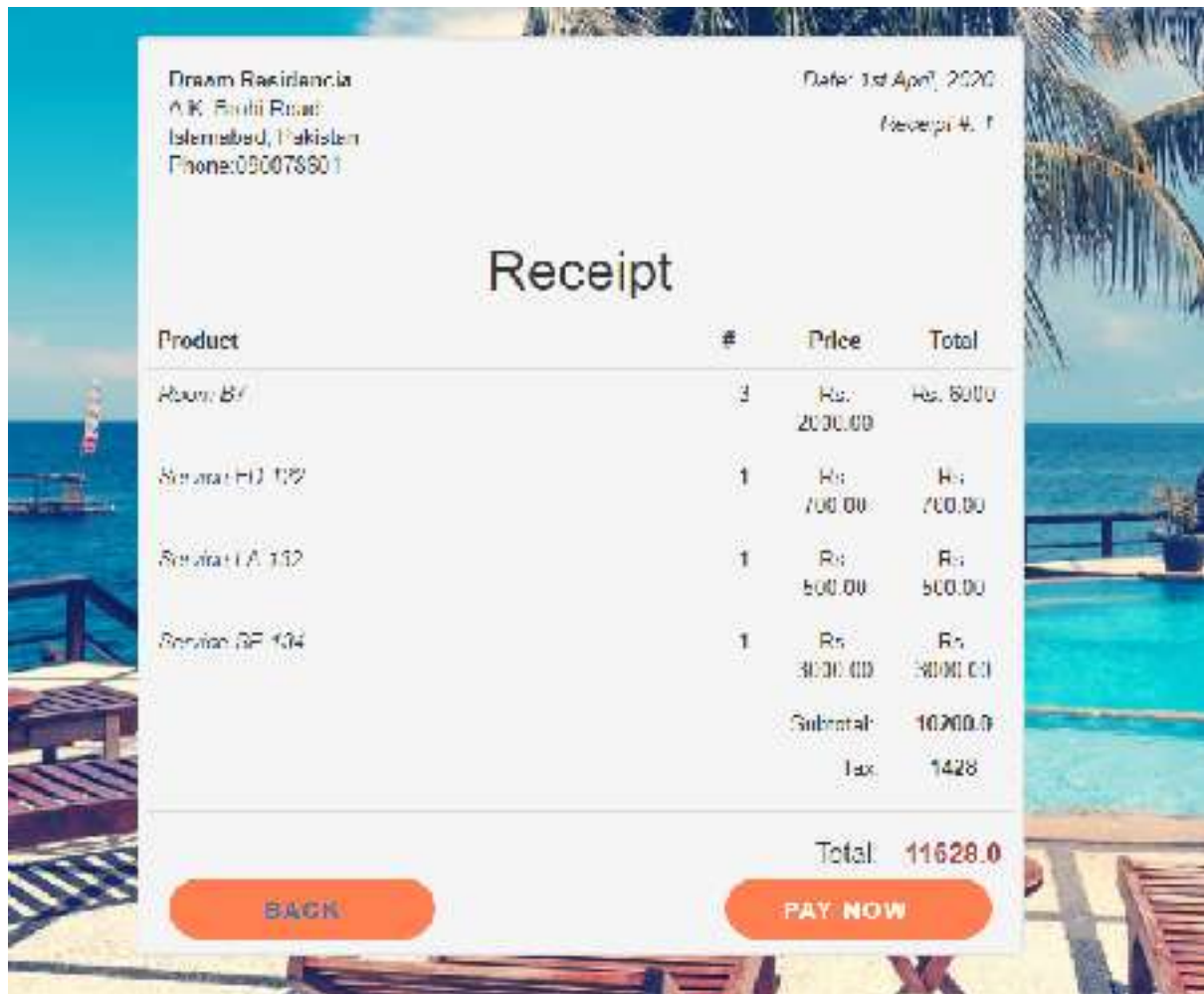
Booking Active: True

Booking Paid: False

BACK

User Story 15

Payment



Sub User Story 15.1

Payment by Cash

- Do not Accept Invalid or Negative Amount

Dream Residencia
A.K. Drohi Road
Islamabad, Pakistan
Phone:090070001

Date: 1st April, 2020
Receipt #: 1

Enter Amount
Receipt

10

Value must be greater than or equal to 0.

ENTER

CLOSE

Product	Price	Total
Room B7	Rs. 2000.00	Rs. 6000
Service FD-122	Rs. 700.00	Rs. 700.00
Service LA-122	Rs. 500.00	Rs. 500.00
Service SP-121	Rs. 3000.00	Rs. 3000.00
Subtotal:		10200.0

Dream Residencia
A.K. Drohi Road
Islamabad, Pakistan
Phone:090070001

Date: 1st April, 2020
Receipt #: 1

Enter Amount
Receipt

11020

ENTER

CLOSE

Product	Price	Total
Room B7	Rs. 2000.00	Rs. 6000
Service FD-122	Rs. 700.00	Rs. 700.00
Service LA-122	Rs. 500.00	Rs. 500.00
Service SP-121	Rs. 3000.00	Rs. 3000.00
Subtotal:		10200.0



Sub User Story 15.2

Payment by Card

- Error, Invalid Email
- Error, Invalid Zip
- Error, Invalid Card Number
- Error, Invalid Year

A screenshot of a mobile application interface for making a payment. The title 'Make Payment For booking' is at the top. The form is divided into two main sections: 'Billing Address' on the left and 'Payment' on the right. The 'Billing Address' section includes fields for 'Full Name', 'Email', 'Address', 'City', 'Country', and 'Zip'. The 'Payment' section includes a list of 'Accepted Cards' (Visa, Mastercard, American Express), a 'New Card?' section with a 'Name' field, a 'Credit card number' field, an 'Exp Month' dropdown, and an 'Exp Year' dropdown. At the bottom, there are two orange buttons: 'MAKE PAYMENT' and 'BACK'. A small disclaimer is visible at the bottom left of the form area.

Make Payment For booking

Billing Address

Full Name

Phone

Country

City

State

Zip

Address

Amount **£**

Order **1000**

Payment

Accepted Cards

Payment Method

Card Number

Exp. Month

Exp. Year

Next Payment

Back

Make Payment For booking

Billing Address

Full Name

Email

Address


City

Country

Zip

Payment

Accepted Cards:



Name on Card

Credit card number

Exp Month

Exp Year

Please keep the field less than 15 character or more (you are currently using 6 characters).

MAKE PAYMENT
BACK

Make Payment For booking

Billing Address

Full Name

Email

Address


City

Country

Zip

Payment

Accepted Cards:



Name on Card

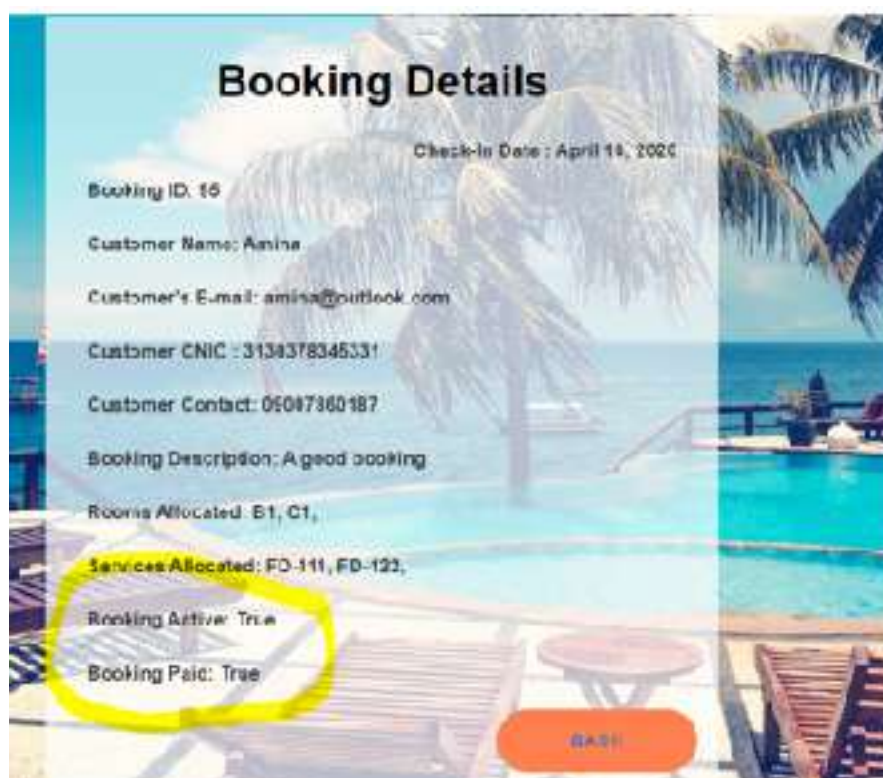
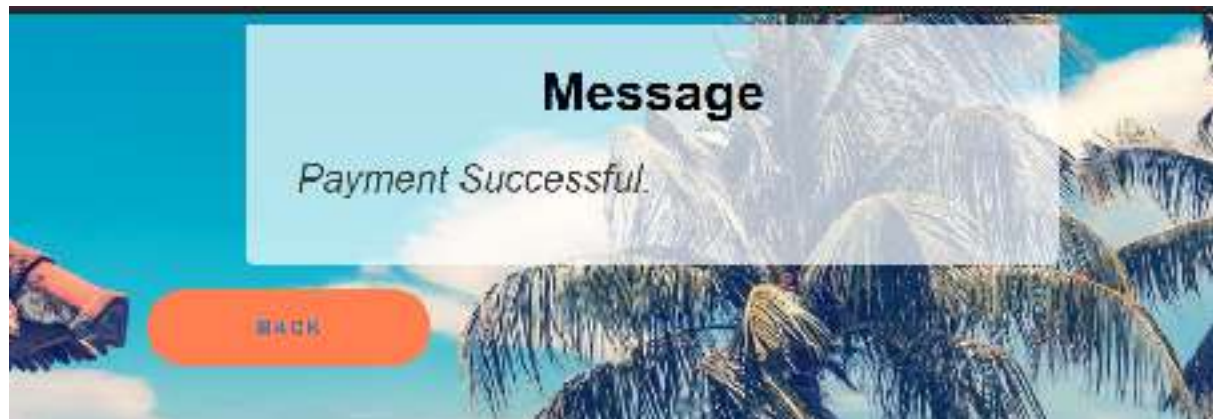
Credit card number

Exp Month

Exp Year

Value must be greater than or equal to 1580.

MAKE PAYMENT
BACK



User Story 16

Booking Report

- Date From Must be Filled
- Date To Must be Filled

Dream Bookbrella
 A/L, 5th Road
 Islamabad, Pakistan
 Phone: 030070001

Log In

Bookings Report

Date From:

 Date To:

Please fill out this field.

Bookings Analysis

Total Active Bookings :
 Total Dropped-Out Bookings :
 Total Finished Bookings :
 Total :

Dream Bookbrella
 A/L, 5th Road
 Islamabad, Pakistan
 Phone: 030070001

Log In

Bookings Report

Date From:

 Date To:

Please fill out this field.

Bookings Analysis

Total Active Bookings :
 Total Dropped-Out Bookings :
 Total Finished Bookings :
 Total :

Dream Bookbrella
 A/L, 5th Road
 Islamabad, Pakistan
 Phone: 030070001

Log In

Bookings Report

Date From:

 Date To:

Please fill out this field.

Bookings Analysis

Total Active Bookings :
 Total Dropped-Out Bookings :
 Total Finished Bookings :
 Total :

Breem Parkhouse
 A.E. 3rd Road
 Islamabad, Pakistan
 Phone 350978801

Date: April 20, 2020

Bookings Report

Date From

Date To

Name	Check IN	Check OUT	Email	Contact	Status
Dia	April 15, 2020	April 20, 2020	ibbale50@gmail.com	0300100842	Dropped
Taha	April 15, 2020	None	taha@outlook.com	99029761787	Active
Amlia	April 15, 2020	None	amline@outlook.com	0301022167	Active

Bookings Analysis

Total Active Bookings : 2
 Total Dropped-Out Bookings: 1
 Total Finished Bookings: 0
 Total: 3

User Story 17

Finance Report

- Date From Must be Filled
- Date To Must be Filled

Devi's Bookends
A.A. Erbil Road
Manshab, Pakistan
Phone: 030010001

Finance Report

Date From: Date To:

Finance Analysis

Total Amount: Rs.
Total Earnings: Rs.
Loss: Rs.

Devi's Bookends
a.E. Field Road
Manshab, Pakistan
Phone: 030010001

Finance Report

Date From: Date To:

Finance Analysis

Total Amount: Rs.
Total Earnings: Rs.
Loss: Rs.

Devi's Bookends
A.C. Erbil Road
Manshab, Pakistan
Phone: 030010001

Finance Report

Date From: Date To:

Name	Check-In	Check-Out	Total Amount	Final Amount	Status
Blue	April 15, 2019	April 26, 2019	£ 00		Stripped
Yellow	April 15, 2019	None	11620.00	11620.00	Actual
Orange	April 15, 2019	None	15757.00	15757.00	Actual

Finance Analysis

Total Amount: Rs. 30780.00
Total Earnings: Rs. 30780.00
Loss: Rs. 0.00

Boundary Value and Equivalent Class Partitions

Rooms

room-id:

1) Equivalence Class Partitions:

- a. It will not let the user type more than 10 values

Invalid EC	Valid EC	Invalid EC
Length<2	2<=Length<=10	Length>10

2) Boundary Value Test

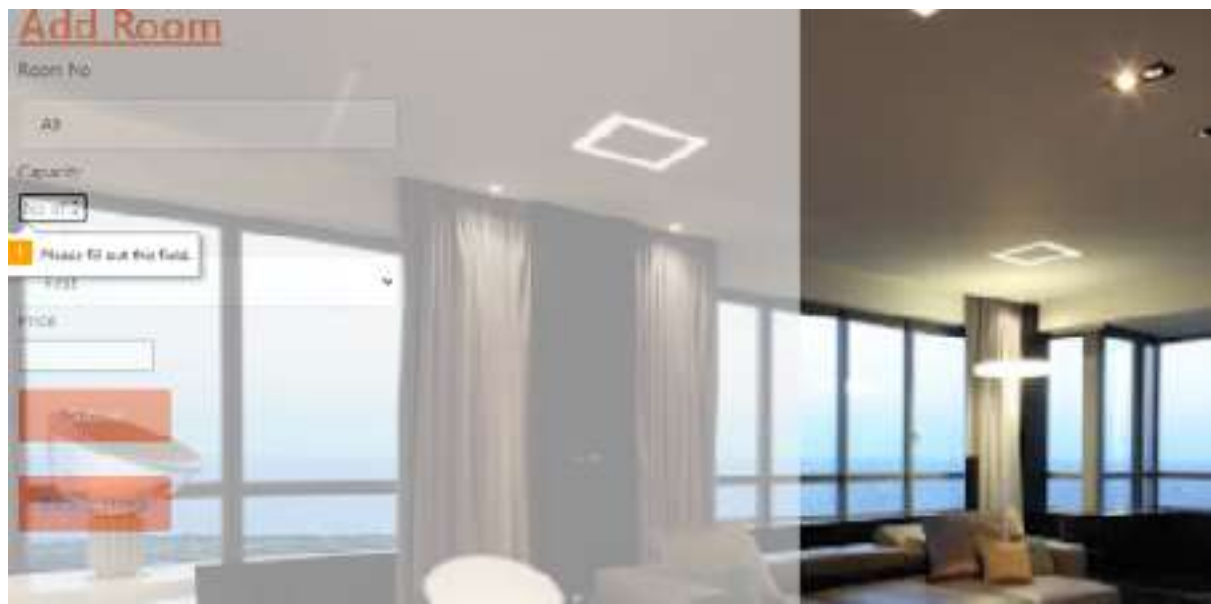
- a. It will not let the user type more than 10 values so Maximum test is not needed.

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
1	2	4	10	11

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed

The screenshot shows a web form titled "Add Room" with a background image of a modern interior. The form contains the following fields and elements:

- Room No:** A text input field containing the value "A". Below it, a yellow error message box states: "Please lengthen this text to 2 characters or more (you are currently using 1 character)." This indicates a minimum length constraint of 2 characters.
- Floor No:** A dropdown menu with "First" selected.
- Price:** A text input field.
- Buttons:** An orange "Submit" button and a blue "Back to Home" button.



Add Room

Room No

A123456789

Capacity

No of

Floor No

First

Price

Submit

Back To Home

capacity:

1) Equivalence Class Partitions:

Invalid EC	Valid EC	Invalid EC
Value<1	1<=Value<=6	Value>6

2) Boundary Value Test

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
0	1	3	6	7

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed **SS-5:** Not Passed





price:

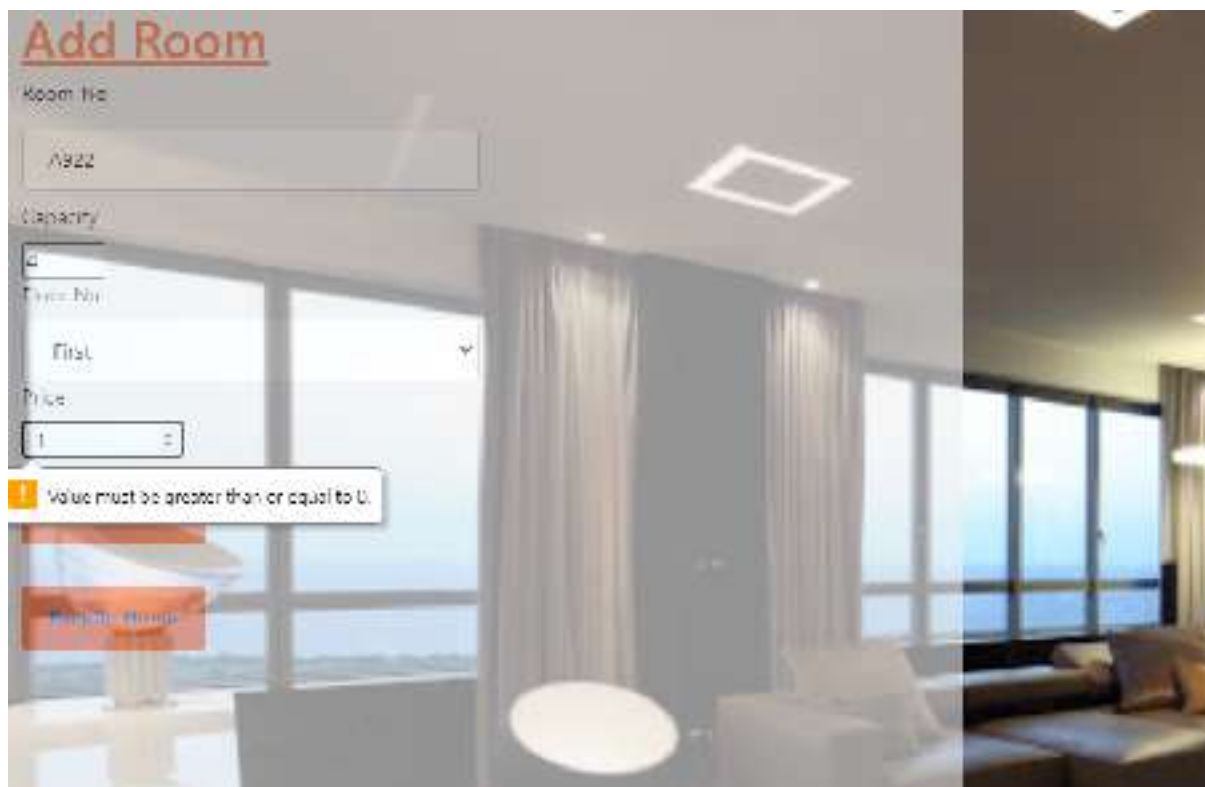
1) Equivalence Class Participation:

Invalid EC	Valid EC	Invalid EC
Value<0	$0 \leq \text{Value} \leq 100000$	Value>100000

2) Boundary Value Test

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
-1	0	1000	100000	100001

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed **SS-5:** Not Passed



Add Room

Room No

A022

Capacity

4

Floor No

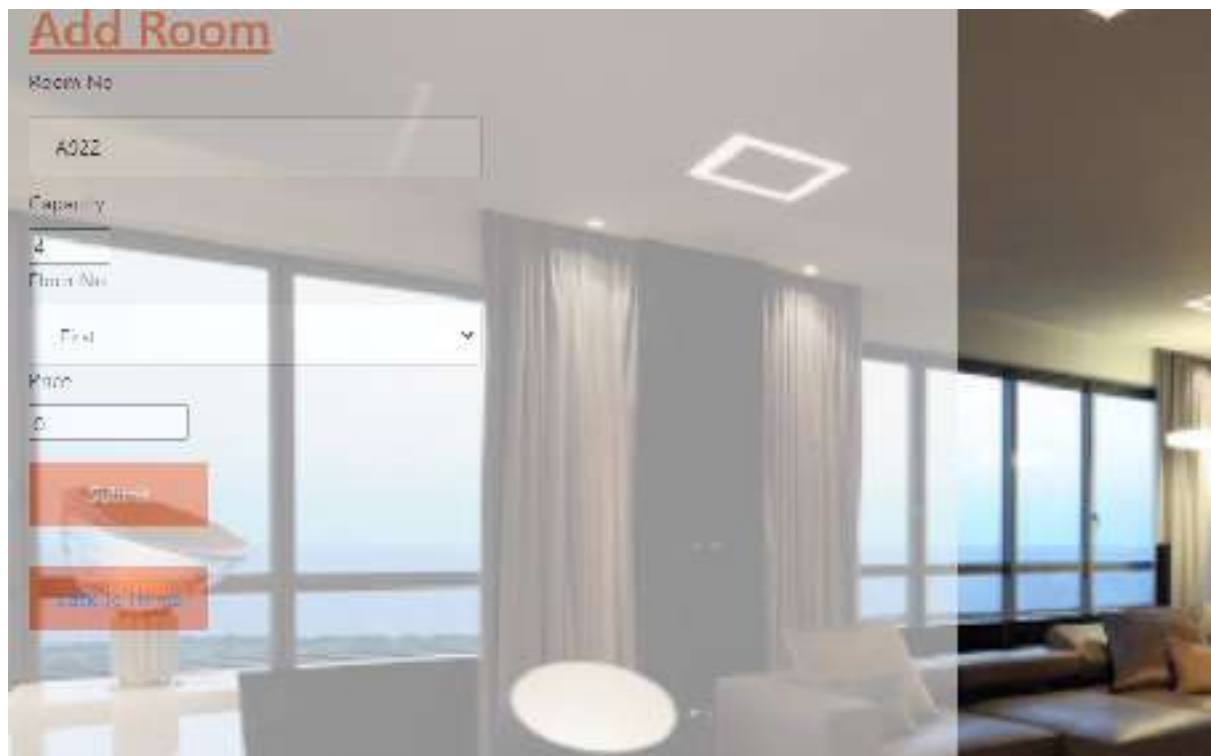
First

Price

0:

Submit

Cancel to Home



Add Room

Room No

A022

Capacity

4

Floor No


First

Price

0000

Submit

Cancel to Home



Add Room

Room No

1922

Capacity

4

Floor No

First

Price

100000

Submit

Cancel



Add Room

Room No

1922

Capacity

4

Floor No

First

Price

100001

Value must be less than or equal to 100000.

Submit

Cancel



Services

service-id:

1) Equivalence Class Partitions:

- a. It will not let the user type more than 10 values

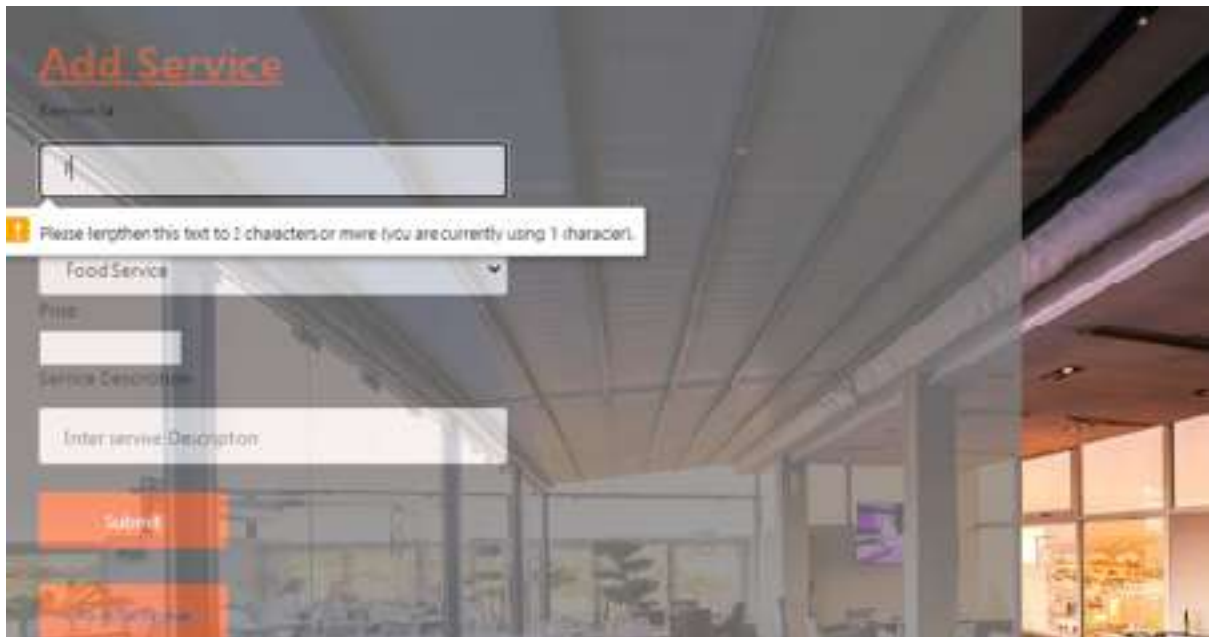
Invalid EC	Valid EC	Invalid EC
Length<2	$2 \leq \text{Length} \leq 10$	Length>10

2) Boundary Value Test

- a. It will not let the user type more than 10 values so Maximum test is not needed.

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
1	2	4	10	11

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed



Add Service

Service Id

Food

Select Service Type

Food Service

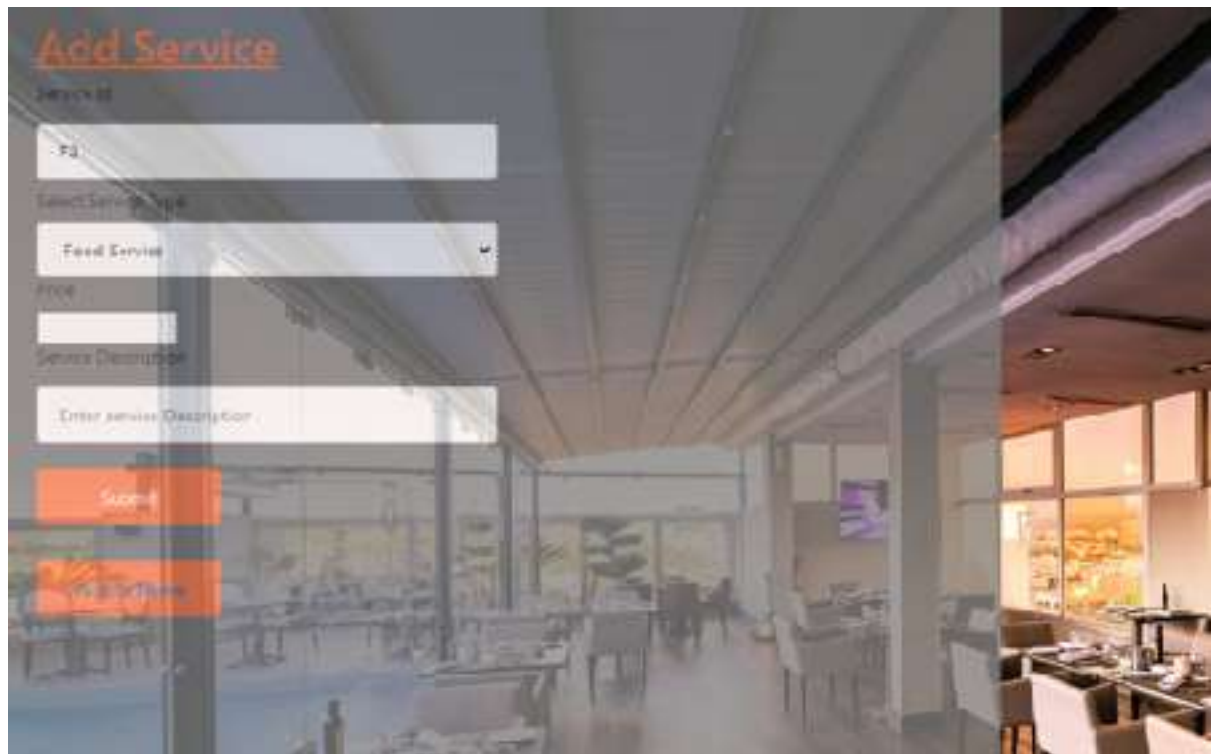
Price

Service Description

Enter service Description

Submit

Cancel & Return



Add Service

Service Id

1234

Select Service Type

Food Service

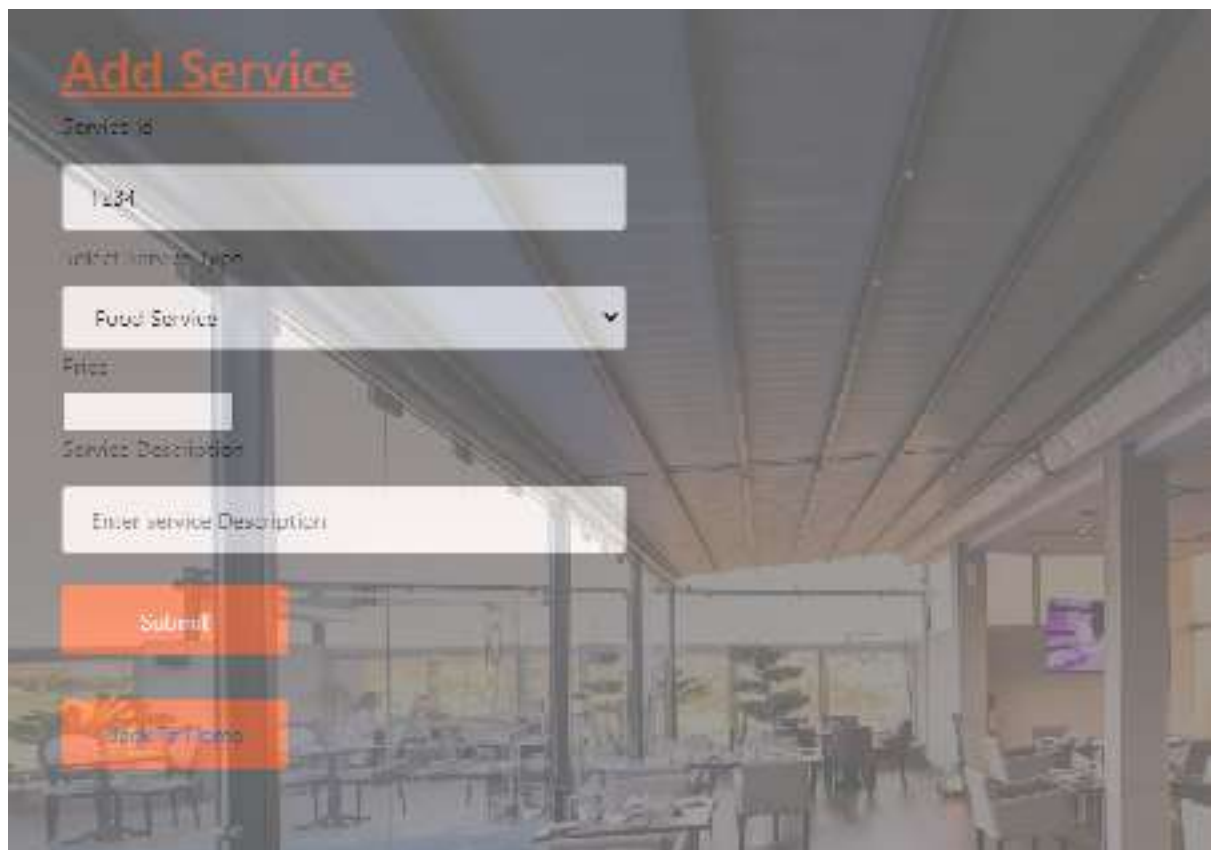
Price

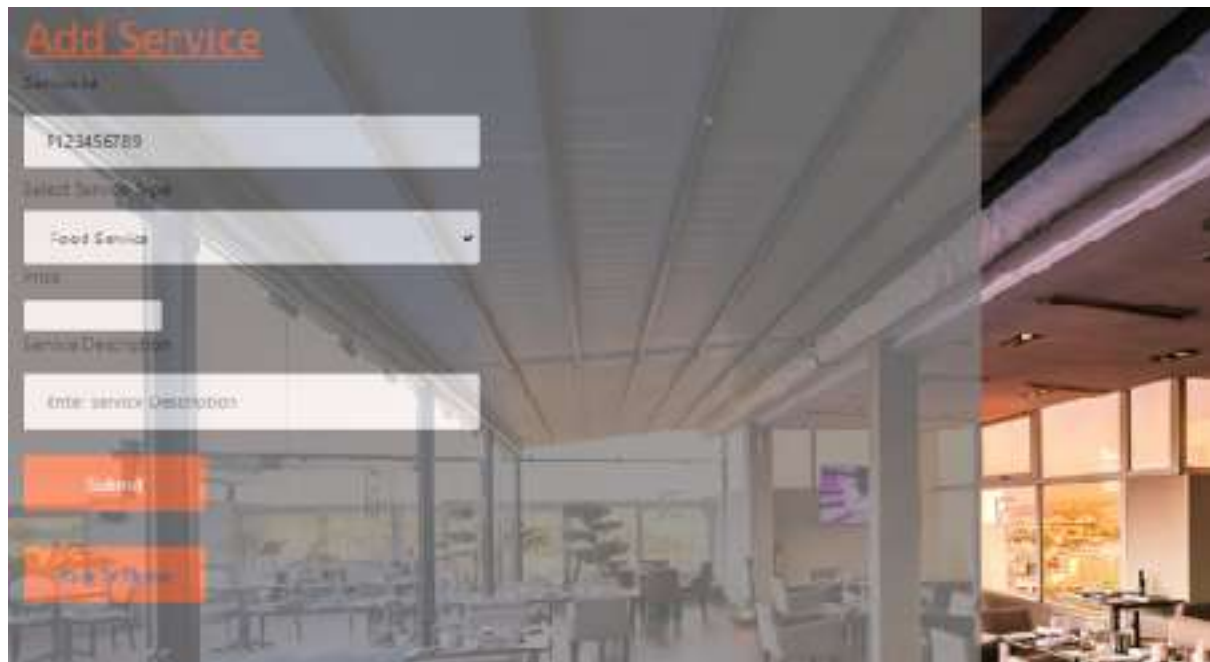
Service Description

Enter service Description

Submit

Cancel & Return





price:

1) Equivalence Class Partitions:

Invalid EC	Valid EC	Invalid EC
Value<0	0<=Value<=100000	Value>100000

2) Boundary Value Test

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
-1	0	1000	100000	100001

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed **SS-5:** Not Passed

Add Service

Service Id

1125

Select Feature Type

Food Service

Price

-

Value must be greater than or equal to 0.

Enter service Description

Submit

Back To Home

Add Service

Service Id

1125

Select Feature Type

Food Service

Price

0

Service Description

Enter service Description

Submit

Back To Home

Add Service

Service ID

P123

Select Service Type

Food Service

Price

1000

Service Description

Enter service Description

Submit

Go Back

Add Service

Service ID

P123

Select Service Type

Food Service

Price

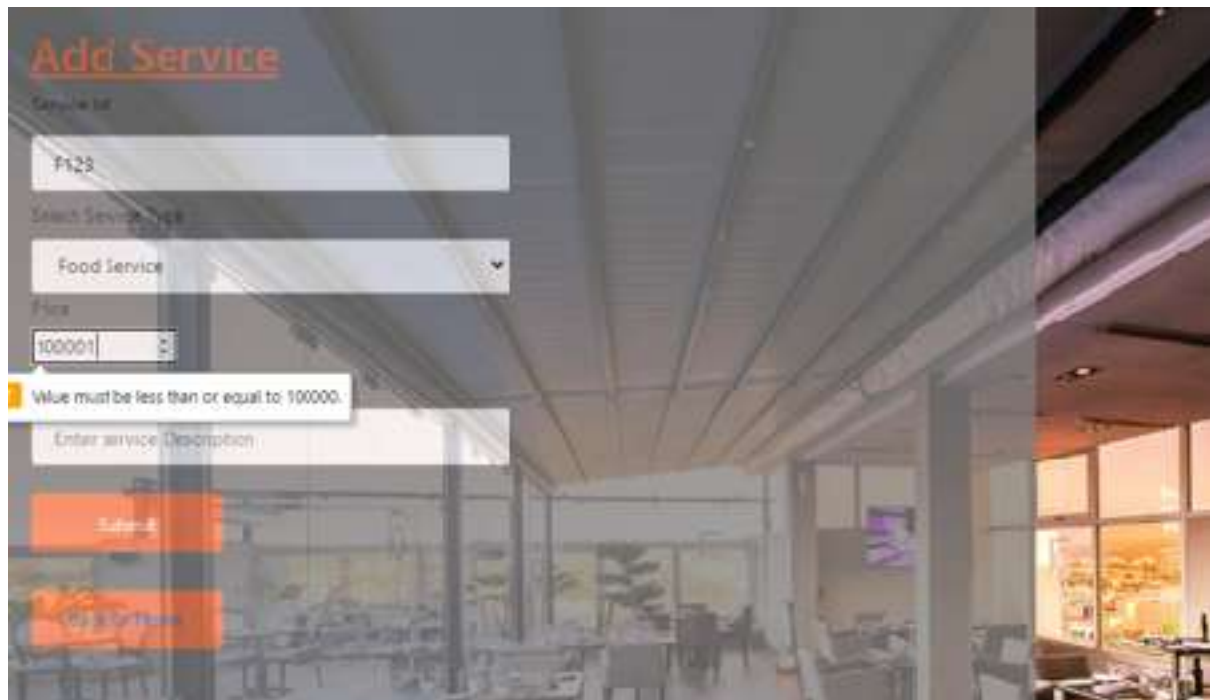
100000

Service Description

Enter service Description

Submit

Go Back



Booking

checkin:

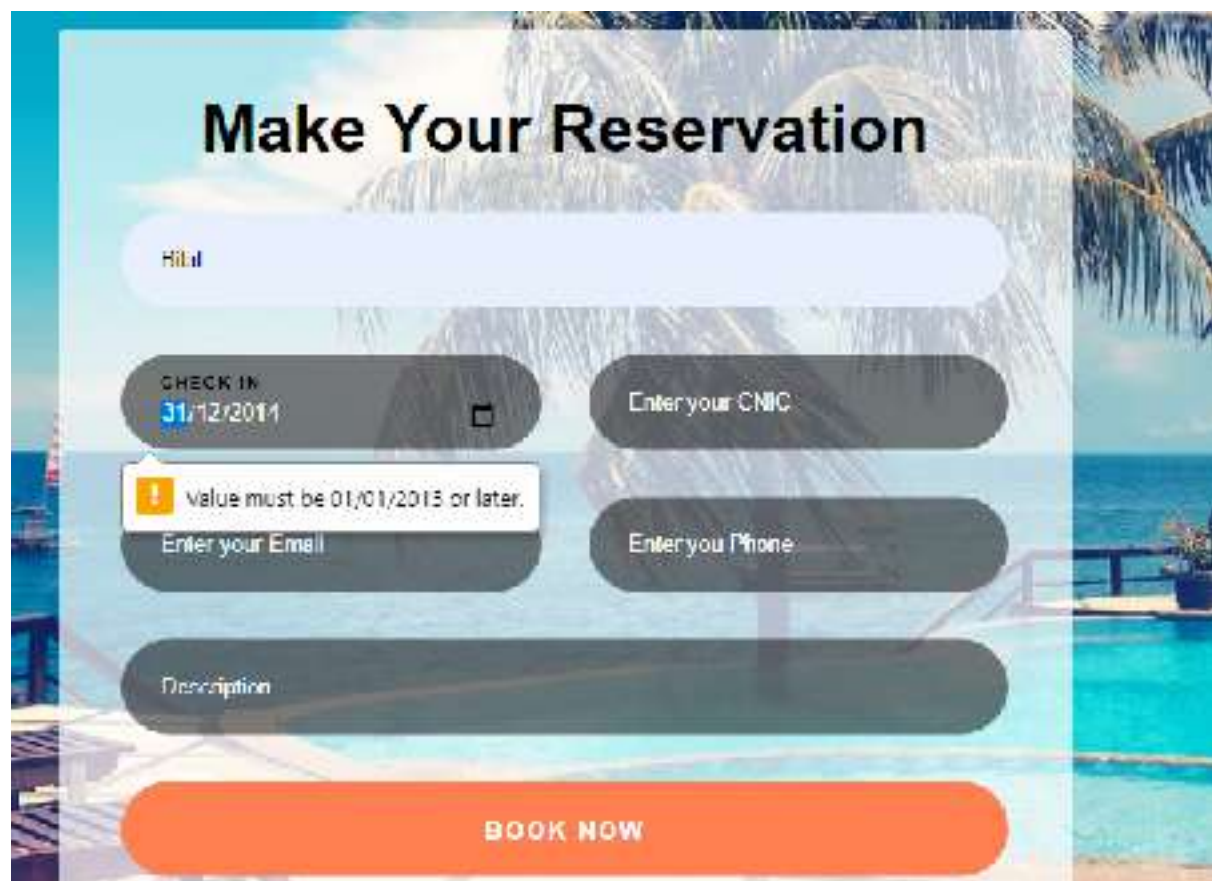
1) Equivalence Class Partitions:

Invalid EC	Valid EC	Invalid EC
date<"2015-1-1"	"2015-1-1"<=Value<="2090-1-1"	Value>"2090-01-02"

2) Boundary Value Test

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
"2014-12-31"	"2015-1-1"	"2020-6-3"	>"2090-1-1"	"2090-01-02"

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed **SS-5:** Not Passed



The image shows a reservation form titled "Make Your Reservation" overlaid on a background of a tropical beach with palm trees and a swimming pool. The form includes a name field with "Hilal", a check-in date field with "31/12/2014" and a calendar icon, a CNIC field with "Enter your CNIC", an email field with "Enter your Email", a phone field with "Enter you Phone", and a description field with "Description". A red "BOOK NOW" button is at the bottom. A yellow error message box is displayed over the check-in date field, stating "value must be 01/01/2015 or later."

Make Your Reservation

Hilal

CHECK IN
31/12/2014

Enter your CNIC

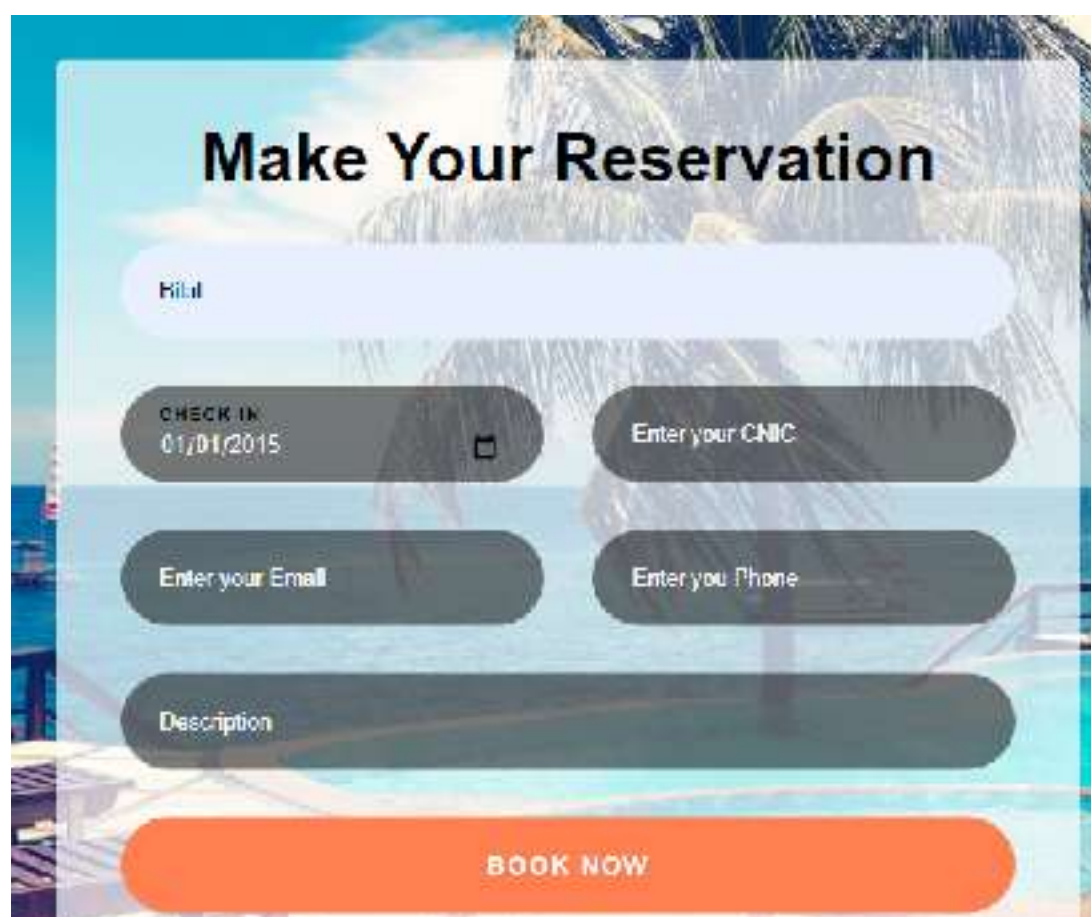
Enter your Email

Enter you Phone

Description

BOOK NOW

value must be 01/01/2015 or later.



The image shows the same reservation form as above, but with the check-in date corrected to "01/01/2015". The error message box is no longer present. The "BOOK NOW" button remains at the bottom.

Make Your Reservation

Hilal

CHECK IN
01/01/2015

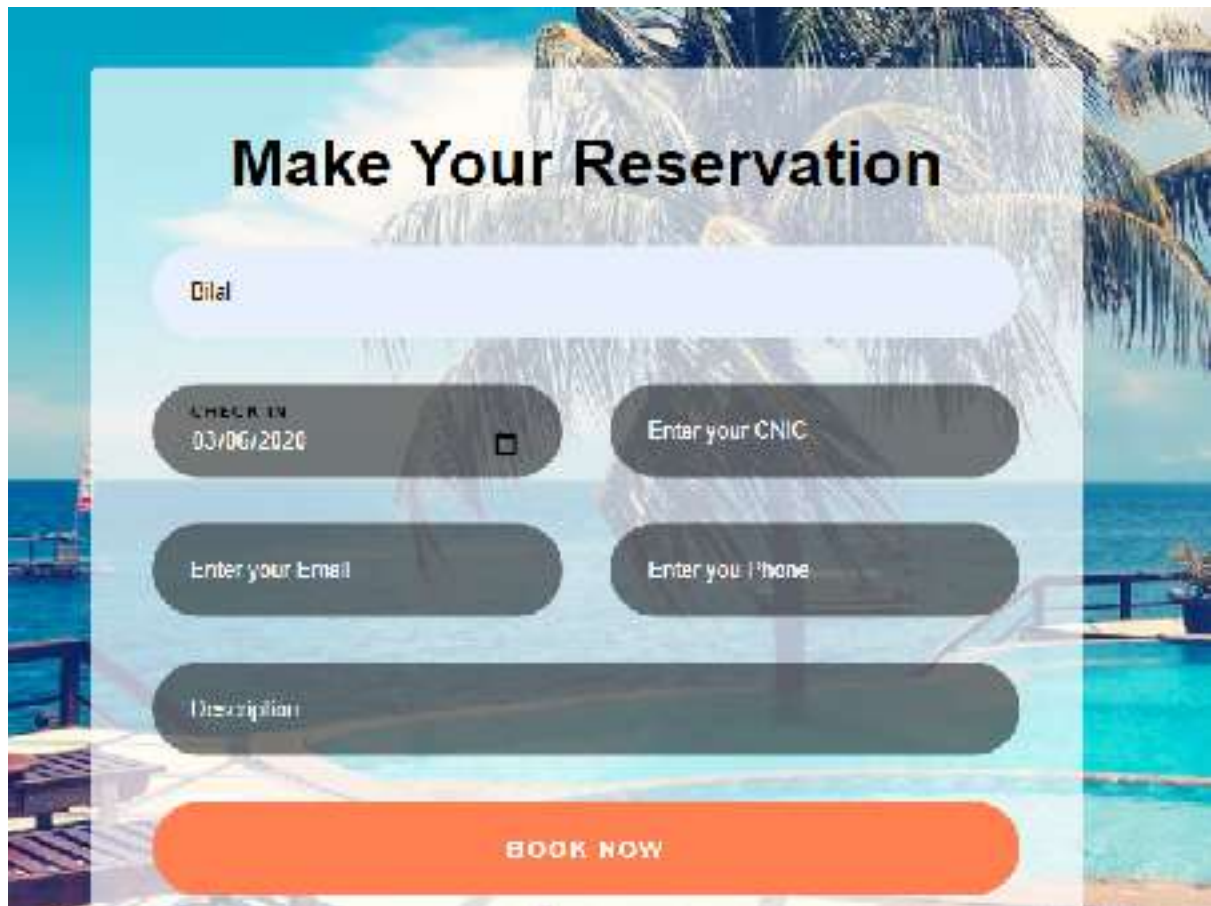
Enter your CNIC

Enter your Email

Enter you Phone

Description

BOOK NOW



Make Your Reservation

01111111111111111111

CHECK IN
03/06/2020

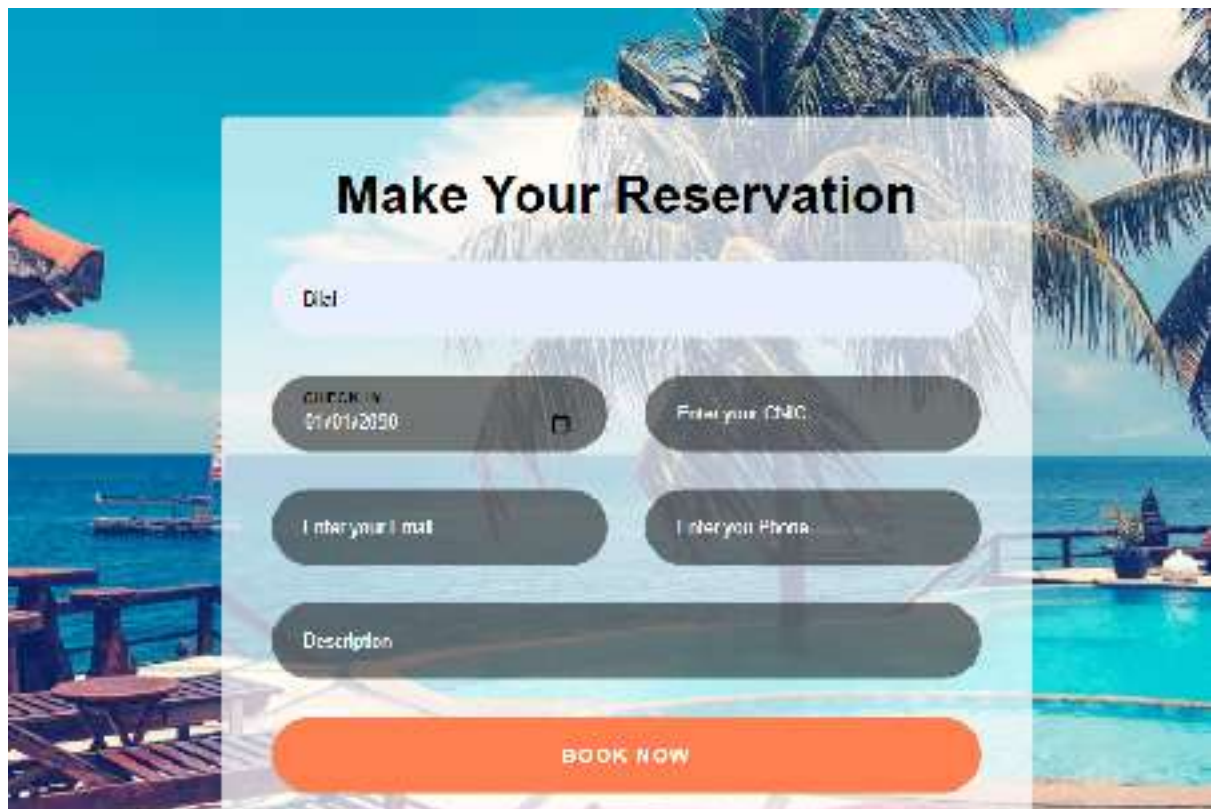
Enter your CNIC

Enter your Email

Enter your Phone

Description

BOOK NOW



Make Your Reservation

01111111111111111111

CHECK IN
01/01/2020

Enter your CNIC

Enter your Email

Enter your Phone

Description

BOOK NOW

Make Your Reservation

Rilal

CHECK IN
02/01/2090

Enter your CNIC

Value must be 01/01/2090 or earlier.

Enter your Email

Enter your Phone

Description

BOOK NOW

cnic:

1) Equivalence Class Partitions:

- a. It will not let the user type more than 15 values

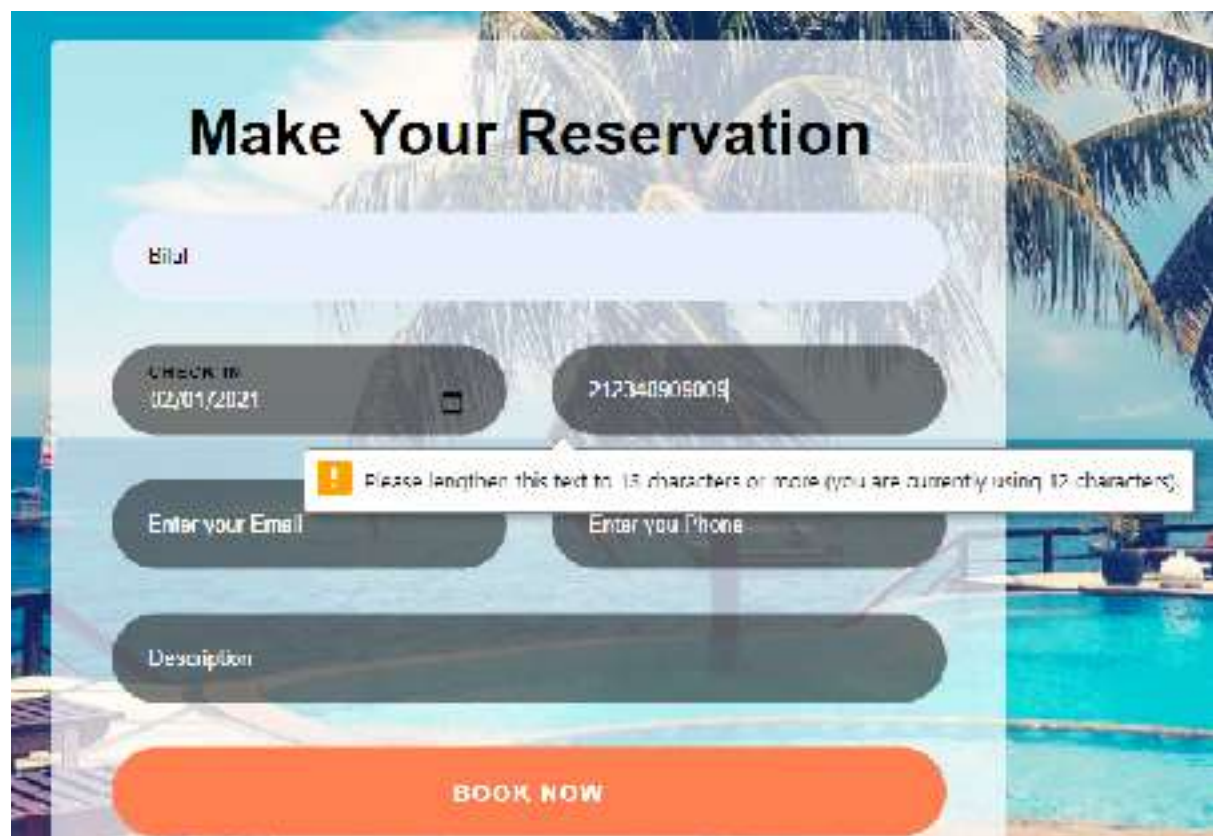
Invalid EC	Valid EC	Invalid EC
Length<13	13<=Length<=15	Length>15

2) Boundary Value Test

- a. It will not let the user type more than 15 values so Maximum test is not needed.

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
12	13	14	15	16

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed



Make Your Reservation

Full

CHECK IN
02/01/2021

212340909009

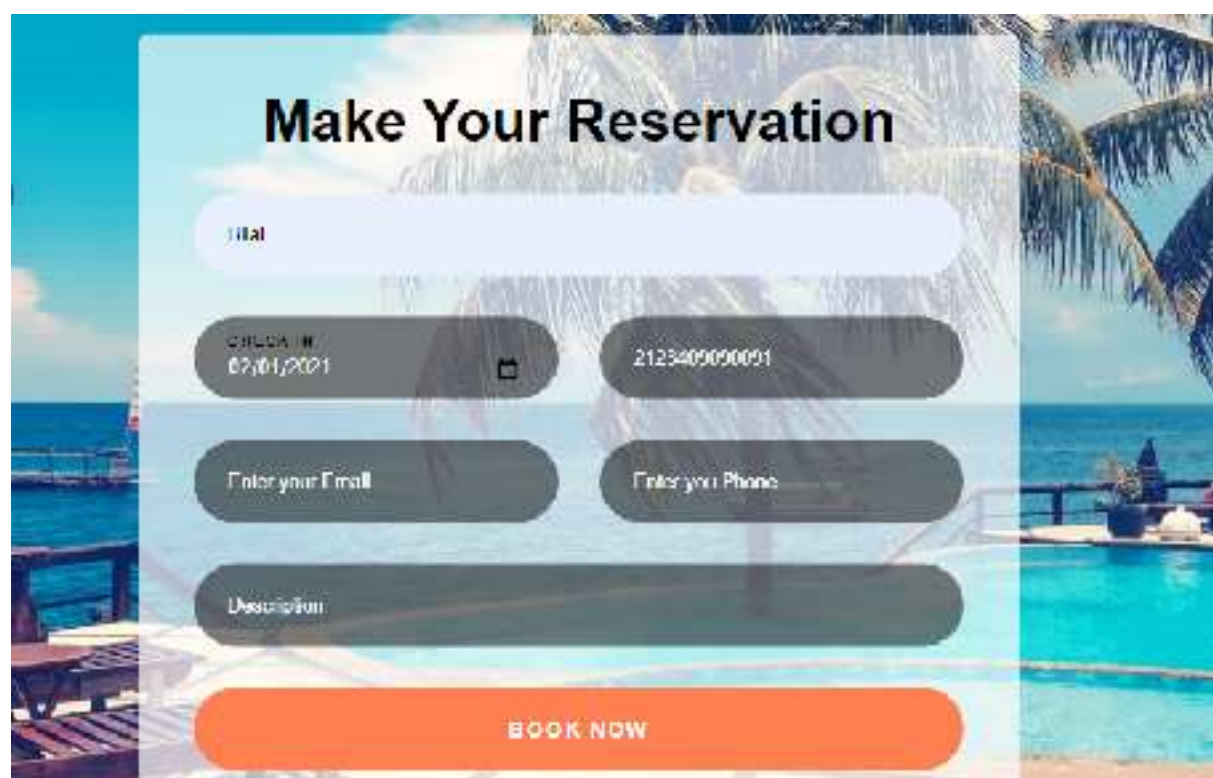
Enter your Email

Enter your Phone

Description

BOOK NOW

Please lengthen this text to 15 characters or more (you are currently using 12 characters).



Make Your Reservation

Full

CHECK IN
02/01/2021

212340909009

Enter your Email

Enter your Phone

Description

BOOK NOW

Make Your Reservation

Bill to

CHECK IN
02/01/2021



21234090900911

Enter your Email

Enter you Phone

Reservation

BOOK NOW

Make Your Reservation

BOOK NOW

Payment card-no:

1) Equivalence Class Partitions:

- a. It will not let the user type more than 19 values

Invalid EC	Valid EC	Invalid EC
Length<16	16<=Length<=19	Length>19

2) Boundary Value Test

- a. It will not let the user type more than 19 values so Maximum test is not needed.

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
15	16	18	19	20

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed

Make Payment For booking

Billing Address

Full Name

Muhammad Rizal Shabbir

Email

muhammadr@gmail.com

Address

House No. 10, Church Road, Atlanta

City

Rahim Yar Khan

Country





Pakistan

Zip

64200

Payment

Accepted Cards

Name on Card

Ali

Credit card number

1111222233334444

Exp Month

September

Exp Year

2015

Please lengthen this text to 15 characters or more (you are currently using 15 characters)

[MAKE PAYMENT](#) [BACK TO HOME](#)

Make Payment For booking

Billing Address

Full Name

Muhammad Rizal Shabbir

Email

muhammadr@gmail.com

Address

House No. 10, Church Road, Atlanta

City

Rahim Yar Khan

Country





Pakistan

Zip

64200

Payment

Accepted Cards

Name on Card

Ali

Credit card number

1111222233334444

Exp Month

September

Exp Year

2015

[MAKE PAYMENT](#) [BACK TO HOME](#)

Make Payment For booking

Billing Address

Full Name:

Muhammad Rizki Sholah

Email:

bbabiz08@gmail.com

Address:

House No. 10, Church Road, Alamo

City:

Belton, TX, United States

Country:

Pakistan

Zip:

64200

Payment

Accepted Cards:



Name on Card:

Rizki

Credit card number:

1111-2222-3333-4444

Exp Month:

September

Exp Year:

2018

MAKE PAYMENT

[BACK TO HOME](#)

Make Payment For booking

Billing Address

Full Name

Email


Address

City

Country

Zip

Payment

Accepted Cards


Name on Card

Credit card number

Exp Month

Exp Year

MAKE PAYMENT
BACK TO HOME

zipcode:

3) Equivalence Class Partitions:

- a. It will not let the user type more than 10 values

Invalid EC	Valid EC	Invalid EC
Length<4	4<=Length<=10	Length>10

4) Boundary Value Test

- a. It will not let the user type more than 10 values so Maximum test is not needed.

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
3	4	6	10	11

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed

Make Payment For booking

Billing Address

Full Name

Muhammad Bilal Siddiqi

Email

bilal185@gmail.com

Address

House No. 10, Church Road, Alkuni

City

Islamabad

Country

Pakistan

Zip

642

Payment

Accepted Cards



Name on Card

Hide

Credit card number

1111 2222 3333 4444

Exp Month

September

Exp Year

2020

Please lengthen this text to 4 characters or more (you are currently using 3 characters)

MAKE PAYMENT

BACK TO HOME

Make Payment For booking

Billing Address

Full Name
Muhammad Bilal Shabbir

Email
bilal290@gmail.com

Address
House No. 10, Church Road, Alameda

City
Islamabad

Country
Pakistan

Zip
84000

Payment

Accepted Cards
VISA MASTERCARD

Name on Card
Ella

Credit card number
1111 2222 3333 4444

Exp Month
September

Exp Year
2018

MAKE PAYMENT

BACK TO HOME

Make Payment For booking

Billing Address

Full Name
Muhammad Bilal Shabbir

Email
bilal290@gmail.com

Address
House No. 10, Church Road, Alameda

City
Islamabad

Country
Pakistan

Zip
84000

Payment

Accepted Cards
VISA MASTERCARD

Name on Card
Ella

Credit card number
1111 2222 3333 4444

Exp Month
September

Exp Year
2018

MAKE PAYMENT

BACK TO HOME

Make Payment For booking

Billing Address

Full Name
Muhammad Bilal Shahzad

Email
bshahzad9@gmail.com


Address
House No. 10, Church Road, Alama

City
Islamabad

Country
Pakistan

Zip
6012345678

Payment

Accepted Cards


Name on Card
Bilal

Credit card number
1111 2222 3333 4444

Exp Month
September

Exp Year
2010

MAKE PAYMENT
BACK TO HOME

price:

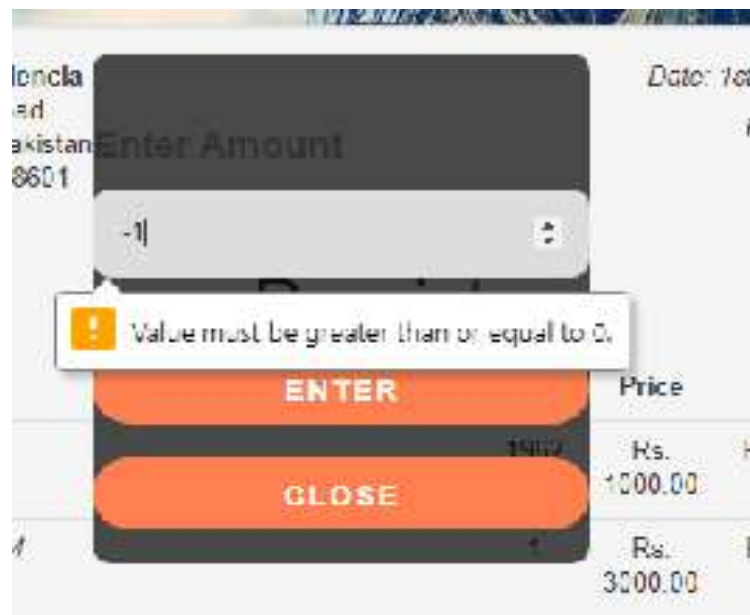
1) Equivalence Class Partitions:

Invalid EC	Valid EC	Invalid EC
Value<0	0<=Value<=9999999	Value>9999999

2) Boundary Value Test

Minimum (Should Not Accept)	Just above the Minimal	A nominal value	Just below the maximum	Maximum (Should Not Accept)
-1	0	1000	9999999	10000000

SS-1: Not Passed, **SS-2:** Passed, **SS-3:** Passed, **SS-4:** Passed **SS-5:** Not Passed



Residencia
ulii Road
bad, Pakistan
090078601

Date: 1st April,
Receipt

Enter Amount

1000

Receipt

ENTER

CLOSE

Price	Total
Rs. 1962	Rs. 1962
1000.00	
Rs. 3000.00	Rs. 3000.00
Subtotal:	10650
Tax:	2751

Dream Residencia
A.K. Doshi Road
Islamabad, Pakistan
Phone: 090070601

Date: 1st April, 2020
Receipt # 1

Enter Amount

9999999

Receipt

ENTER

CLOSE

Product	Price	Total
Room A0	Rs. 1962	Rs. 196200
	1000.00	
Service SP 134	Rs. 3000.00	Rs. 3000.00
Subtotal:		1065000.0
Tax:		275100

m Residencia

Prohi Road

abad, Pakistan

e.090078601

Date: 1st April, 20

Receipt #

Enter Amount

10000000

Value must be less than or equal to 9999999.

ENTER

CLOSE

ict	Price	Total
A9	Rs. 1962	Rs. 19620
c SP 134	Rs. 3000.00	Rs. 3000.00
Subtotal:		1965000
Tax:		275100