



Department of Computer Science and Engineering

Project Report

on

Hotel Booking Management System

Semester : Summer 2017
Course Code : CSE 435
Course Title : Software Quality Assurance
Section : 1
Group Name : Blue Sharp

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Introduction:

Hotel booking management systems are a popular method for booking hotel rooms. Travelers can book rooms on a computer by using online security to protect their privacy and financial information and by using several online travel agents to compare prices and facilities at different hotels.

Prior to the internet, travelers could write, telephone the hotel directly, or use a travel agent to make a reservation. Nowadays, online travel agents have pictures of hotels and rooms, information on prices and deals, and even information on local resorts. Many also allow reviews of the traveler to be recorded with the online travel agent.

Hotel booking management systems are also helpful for making last minute travel arrangements. Hotels may drop the price of a room if some rooms are still available. There are several websites that specialize in searches for deals on rooms.

Scope:

This system will be developed for both Desktop (windows, Linux) and Mobile devices (Android, Windows, iOS) and there also will be a web application version to access it from web

- ▣ **Client**

- ▣ **Manager**

Objective:

One of the most fundamental objectives of an online hotel booking system is to increase the global reach of a hotel website. Through it, The Hotel management are able to launch hotel website so that various users around the world can access the website. Thus, it increases the chances of a number of bookings. Also, it saves a lot of time and effort for customers as they can conveniently book hotel rooms from their homes.

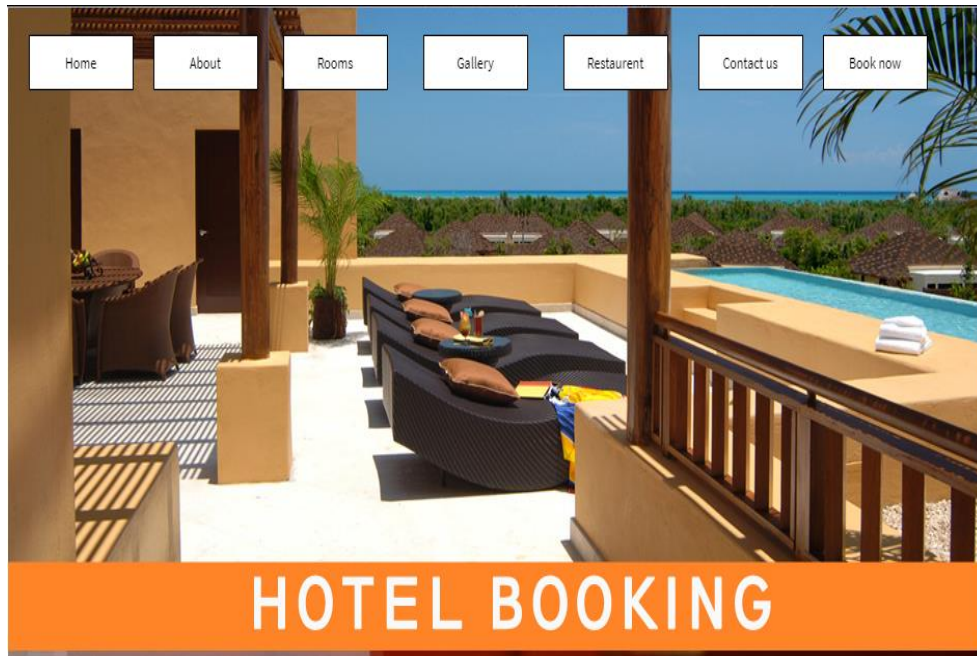
Other common objectives fulfilled by online hotel booking systems are:

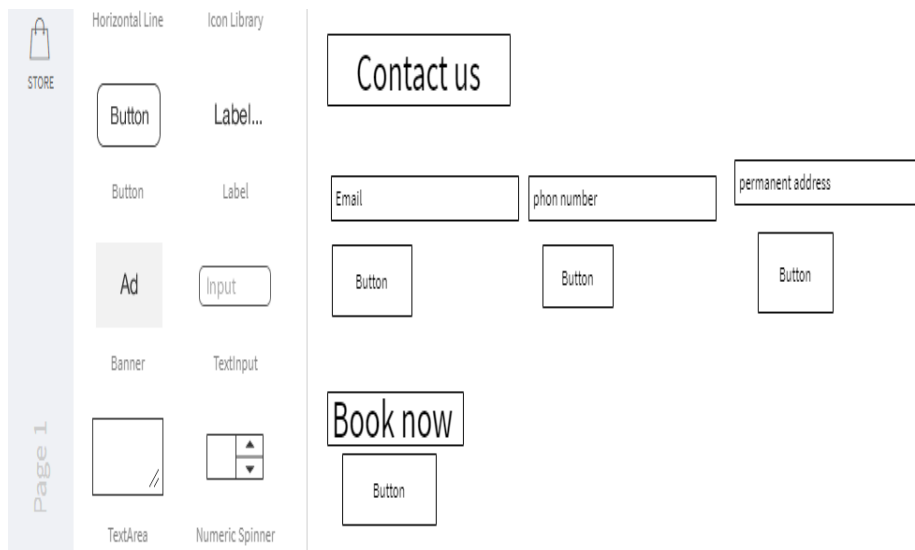
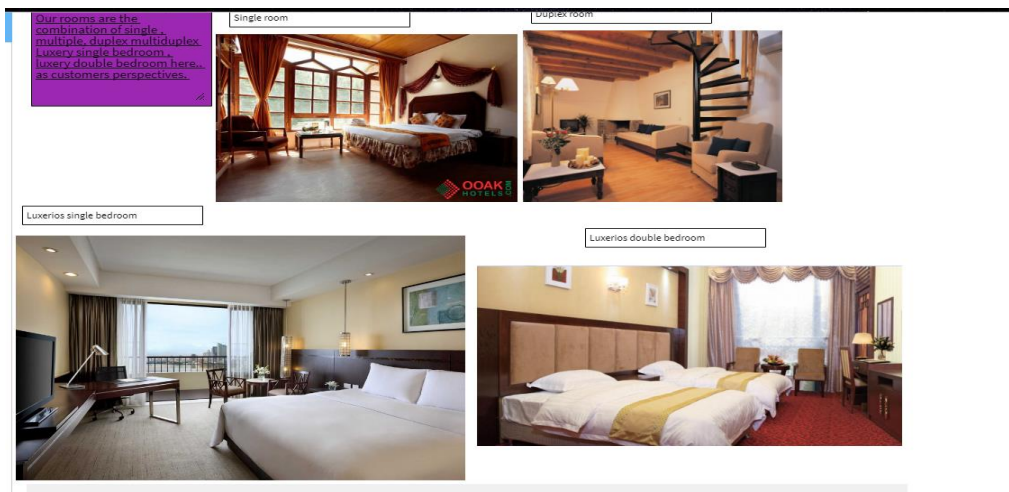
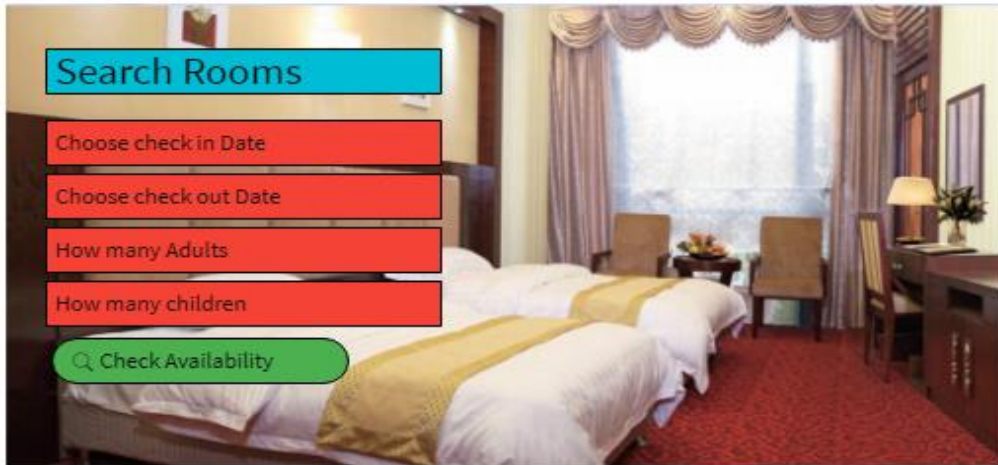
- To provide a platform to manage online bookings
- To display organized information of hotel, prices and pictures.
- To add multiple hotels/rooms to the system.
- To change prices of hotel rooms when needed.
- View of availability of rooms in real time.
- Store customer information which can be accessed anytime.
- A user-friendly interface for customers for the easy booking process.
- To provide a secure payment gateway for online transaction.

Requirement:

- ▣ Select hotel
- ▣ Process booking
- ▣ Booking online
- ▣ Regular transaction

User Interfaces:





Software Testing

Deliverables:

- ❖ Test Plan
- ❖ Test case
- ❖ Traceability Matrix
- ❖ Test Requirement
- ❖ Project Schedule
- ❖ Team Structure

Testing:

Unit Testing: we test each module individually and white box testing.

Integration Testing: after unit testing we test integration test develop the modules.

Regression Testing: we fix bug successfully and new problem not create.

Smoke Testing: we test some part of application in one system and other part of application test other system.

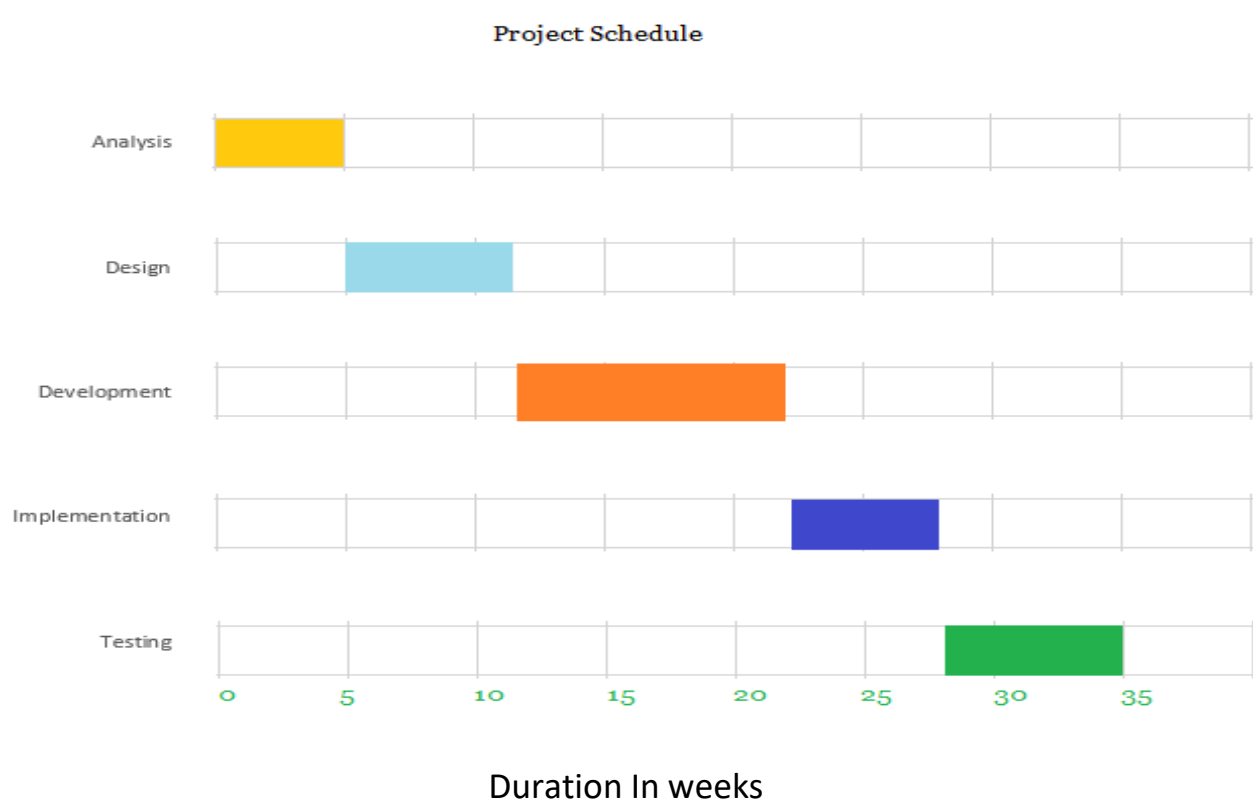
Testing Team Structure:

Analyst and Design : Maria Yasmin Nila

Development : Md Luthfullah Hill Kabir

Implement & Testing : Farhana Sultana

Project Schedule:



Test cases

Test Case :01(Search for hotel successfully)

- Test Case ID: TC-01
- Test Priority (Low/Medium/High): Medium
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page
- Expected Result: Successful

Test Case :02(When place empty)

- Test Case ID: TC-02
- Test Priority (Low/Medium/High): High
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page
- Expected Result: Unsuccessful

Test Case :03(When check-in date is empty)

- Test Case ID: TC-03
- Test Priority (Low/Medium/High): High
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page
- Expected Result: Unsuccessful

Test Case :04(When check-out date is empty)

- Test Case ID: TC-04
- Test Priority (Low/Medium/High): High
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page
- Expected Result: Unsuccessful

Test Case :05(When check-in & check-out both date is empty)

- Test Case ID: TC-05
- Test Priority (Low/Medium/High): High
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page

- Expected Result: Unsuccessful

Test Case :06(When check-in & check-out both date and place are empty)

- Test Case ID: TC-06
- Test Priority (Low/Medium/High): High
- Module Name: Select for Hotel
- Test Title: Select your preferable hotel with category.
- Description: Select the hotel for Test the inquiry page
- Expected Result: Unsuccessful

Test Case :07(Book hotel successfully)

- Test Case ID: TC-07
- Test Priority (Low/Medium/High): Medium
- Module Name: Select for Booking
- Test Title: Select your preferable hotel with category.
- Expected Result: Successful

Test Case :08(when rooms are not available)

- Test Case ID: TC-08
- Test Priority (Low/Medium/High): High
- Module Name: Select for Booking
- Test Title: Select your preferable hotel with category.
- Expected Result: Unsuccessful

Test Case :09(Cancel the booking)

- Test Case ID: TC-09
- Test Priority (Low/Medium/High): Medium
- Module Name: Select for Booking
- Test Title: Select your preferable hotel with category.
- Expected Result: Unsuccessful

Test Case :10(Successfully Transaction)

- Test Case ID: TC-10
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Successful

Test Case :11Transaction failed (when Pin Code is empty)

- Test Case ID: TC-11
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Unsuccessful

Test Case :12Transaction failed (when Pin Code is wrong)

- Test Case ID: TC-12
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Unsuccessful

Test Case :13Transaction failed (when card number is empty)

- Test Case ID: TC-13
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Unsuccessful

Test Case :14 Transaction failed (when Card number is invalid)

- Test Case ID: TC-14
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Unsuccessful

Test Case :15 Transaction failed (when card number and pin code is wrong)

- Test Case ID: TC-15
- Test Priority (Low/Medium/High): High
- Module Name: Credit Card processor
- Test Title: Verify Credit Card with valid no and password
- Expected Result: Unsuccessful

Test Scenario	Test Case Id	Test Steps	Test Data	Expected Result
Search for hotel successfully	TC-01	Pre-conditions:		<ul style="list-style-type: none">• Make sure that site under test is available and testable• client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in:2/8/2017	
		Step 3. Enter the checkout Date	check out:5/8/2017	User can make inquiry for his preferable hotel with price
		Step 4. Enter place you want visit	Place: Rangamati	
		Step 5. Click search		
		Post-Conditions:		Client is validated with database and successfully

				select hotel. The hotel session details are select hotel in database.
When place empty		Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable. client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in:2/8/2017	
		Step 3. Enter the checkout Date	check out:5/8/2017	A message will display on the screen: " please enter your place"
		Step 4. Keep the place empty	Place: empty	
		Step 5. Click search		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully select hotel because of place is empty.
When check-in date is empty	TC-03	Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable. client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in: empty	
		Step 3. Enter the checkout Date	check out:5/8/2014	A message will display on the screen: " please enter your check in date"
		Step 4. Enter	Place: Rangamati	

		place you want visit		
		Step 5. Click search		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully select hotel because of check in date is empty.
When check-out date is empty	TC-04	Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable. client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in:2/8/2017	
		Step 3. Enter the checkout Date	check out: empty	A message will display on the screen: " please enter your check out date"
		Step 4. Keep the place empty	Place: Rangamati	
		Step 5. Click search		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully select hotel because of check out date is empty. .
When check-in	TC-05	Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable.

& check out both date is empty				<ul style="list-style-type: none"> client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in: empty	
		Step 3. Enter the checkout Date	check out: empty	A message will display on the screen: " please enter your check in & check out date"
		Step 4. Enter place you want visit	Place: Rangamati	
		Step 5. Click search		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully select hotel because of check in date & check out date is empty.
When check-in & check-out both date and place are empty	TC-06	Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable. client has preferable hotel with price.
		Step 1: Go to search hotel.html		
		Step 2: Enter the check in Date	Check in: empty	
		Step 3. Enter the checkout Date	check out: empty	A message will display on the screen: " please enter your check in & check out both date n place"

		Step 4. Keep the place empty	Place: empty	
		Step 5. Click search		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully select hotel because of check in check out date & place are empty. .
Hotel booking	TC-07	Pre-conditions:		<ul style="list-style-type: none"> • Make sure that site under test is available and testable. • client has preferable hotel with price and quality.
		Step 1: select hotel	Hotel name: ABC	
		Step 2: Enter the check in Date	Check in: 5/8/2017	
		Step 3. Enter the checkout Date	check out: 7/8/2017	A message will display on the screen: " Booking is Successful"
		Step 4. Search rooms	Rooms:1	
		Step 5. How many Adults	Adults: 2	
		Step 6: How many children	Children: 0	
		Step 7: click Book		
		Post-Conditions:		Client is validated with database and successfully booked hotel. The hotel booking session details are select hotel in database.
	TC-08	Pre-conditions:		<ul style="list-style-type: none"> • Make sure that site

When rooms are not available				under test is available and testable. <ul style="list-style-type: none"> client has preferable hotel with price and quality.
		Step 1: select hotel	Hotel name: ABC	
		Step 2: Enter the check in Date	Check in: 5/8/2017	
		Step 3. Enter the checkout Date	check out: 7/8/2017	A message will display on the screen: " Booking is Unsuccessful"
		Step 4. Search rooms	Rooms: Unavailable	
		Step 5. How many Adults	Adults: 2	
		Step 6: How many children	Children: 0	
		Step 7: click Book		
		Post-Conditions:		client can't search the hotel from database and unsuccessfully book room because of rooms are unavailable
Cancel the booking	TC-09	Pre-conditions:		<ul style="list-style-type: none"> Make sure that site under test is available and testable. client has preferable hotel with price and quality.
		Step 1: select hotel	Hotel name: ABC	
		Step 2: Enter the check in Date	Check in: 5/8/2017	
		Step 3. Enter the checkout Date	check out: 7/8/2017	A message will display on the screen: " Canceled"
		Step 4. Search	Rooms: Unavailable	

		rooms		
		Step 5. How many Adults	Adults: 2	
		Step 6: How many children	Children: 2	
		Step 7: click cancel		
		Post-Conditions:		client can't book the hotel from database and unsuccessfully book hotel because of rooms are unavailable so cancel the process
Successfully Transaction	TC-10	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has valid credit Card number and password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:123456789	
		Step 3. Provide valid password	Password: Juniordevil	Client can transaction for his booking with valid credit card. "
		Step 5. Click on Confirm		
		Post-Conditions:		Credit card processor can be validated with extended database login to account. The login session details are select logged in bank database which is totally external process
	TC-11	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has

Transaction failed (when pin code is empty)				valid credit Card number and password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:123456789	
		Step 3. Provide valid password	Password:	A message will display on the screen: " Pin code is empty"
		Step 5. Click on Confirm		
		Post-Conditions:		Client cannot transaction for his booking because password is empty.
Transaction failed (when pin code is wrong)	TC-12	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has valid credit Card number and password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:123456789	
		Step 3. Provide valid password	Password: 8****	A message will display on the screen: " Enter correct pin code"
		Step 5. Click on Confirm		
		Post-Conditions:		Client cannot transaction for his booking because password is wrong.
	TC-13	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has valid credit Card number and

Transaction failed (when card number is empty)				password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:	
		Step 3. Provide valid password	Password: Juniordevil	A message will display on the screen: " Card number is empty"
		Step 5. Click on Confirm		
		Post-Conditions:		Credit card processor can be validated with extended database login to account. The login session details are select logged in bank database which is totally external process
Transaction failed (when Card number is invalid)	TC-14	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has valid credit Card number and password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:12345	
		Step 3. Provide valid password	Password: Juniordevil	A message will display on the screen: " Enter correct Card number"
		Step 5. Click on Confirm		
		Post-Conditions:		Client cannot transaction for his booking because Card number is invalid .

Transaction failed (when card number and pin code is wrong)	TC-15	Pre-conditions:		<ul style="list-style-type: none"> Credit Card has valid credit Card number and password
		Step 1: Select Payment method		
		Step 2: Provide valid credit card no.	Card Number:1234	
		Step 3. Provide valid password	Password: 8****	A message will display on the screen: " Your card is not valid & Enter correct pin code"
		Step 5. Click on Confirm		
		Post-Conditions:		Client cannot transaction for his booking because card number & password is wrong.

Requirement ID:

Req_1 = Successfully select hotel

Req_2 = Unsuccessfully select hotel

Req_3 = Successfully book hotel

Req_4 = Unsuccessfully book hotel

Req_5 = Transaction Successful

Req_6 = Transaction Unsuccessful

Requirement Traceability Matrix

Test Case ID	TC 1	TC 2	TC 3	TC 4	TC 5	TC 6	TC 7	TC 8	TC 9	TC 10	TC 11	TC 12	TC 13	TC 14	TC 15	#Test Cases for respective Requirement
Req1	√															1
Req2		√	√	√	√	√										5
Req3							√									1
Req4								√	√							2
Req5										√	√	√	√	√		5
Req6															√	1

Concluding Remarks:

It has been a matter of immense pleasure, honor and challenge to have this opportunity to take up this project and complete it successfully. While developing this project we have learnt a lot about hotel booking management system, we have also learnt how to make it user friendly (easy to use and handle) by hiding the complicated parts of it from the user. During the development process, we studied carefully and understood the criteria for making a software more demanding. We also realized the importance of maintaining a minimum margin for error.