

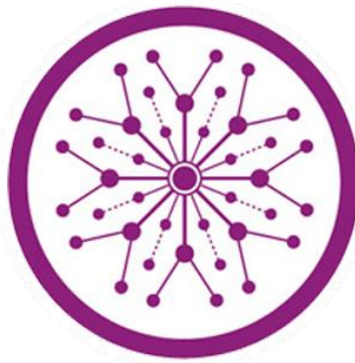
Design Tourism Website and Application

Final Year Project

Session 2019-2023

A project submitted in partial fulfillment of the degree of

BS in Computer Science



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[Design Tourism Website and Application]

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Dedication

“We dedicated our work to the most respectful personality of the world and beloved PROPHET (PBUH) of Allah then to our parents, teachers, friends and all those persons who prayed and helped us in our project.”

Acknowledgements

On the successful completion of this project, Firsts of all we thank to Allah who gave courage and intelligence to complete it. In this regard we thank our supervisor Sir Nasir Nawaz who always gave us kind attention whenever we visited him. He encouraged us with kindness and the time that we spent with him was really the precious moments. At the end we must be grateful to our parents who gave us not only time but everything they could manage for us, for our studies and for our happiness and we are with theirs prayers whatever we are now.

Executive Summary

We will develop a website and mobile application for an organization and for the guideline and easy travel of their customers. It will help the user to make his total focus on his enjoyment and leisure of journey instead of worrying about their schedule, plans, climate change and other threats about the journey. Our project will also help the companies to carry out their operations in a smooth and effective manner. Every organization whether big or small has challenges to overcome and managing the information of tour, travel, hotel, customer facility. Every travel website and application have different travel needs therefore we are going to design AI agent base site which alert the tourist about their all activities of tour and also about the threats of tour. Basically, the main purpose of our project is to make sure maximum safety of the tourists. Our agenda is tourism with safety.

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Chapter 1

Introduction

Chapter 1.1: Introduction

Allah almighty gives a precious gift to Pakistan in the form of northern areas. Pakistan has many beautiful places where thousands of national and international tourists came to visit. On the other hand, tourism is a largest business in the world. Pakistan has a great opportunity to build his economy by improving tourism industry. Pakistan ranked top of the countries in the world for tourism. The main purpose of a tour is some change in the daily routine and to glamourize yourself by the beauty of nature. But there are a lot of things that man has to manage like booking of hotels, information about places to visit, travel issues, etc. And if a person doesn't plan his trip, it will become a head ache. In this era of technology, a web or application helps people a lot to get rid of these problems. Dealing with these problems is compulsory but the other big one is the safety of people's lives. Here I am not talking about terrorism because Pakistan works a lot on terrorism in recent years to finish it. My concern is about the loss of lives due to natural disasters. As we know in January many people lost the battle of life in Murree due to traffic jams and snow storm. The other devastation that occurs recently is due to flood in our northern areas. As Muslims, it is our belief that these natural disasters came from Allah and we can't stop or organize them. But we need a system that couldn't surely save the lives of people but can try to save the lives of people.

1.1. Background

During a tour, a person will have to face many issues related to his stay, transportation, hospitality, and lack of information, quality restaurants, and many other things. The list of problems that I have explained above is very common and many common platforms are giving solutions to these problems in the form of tourism management systems but our idea is inspired by a very severe problem.

On January 2022 a snowstorm occurred in Murree which causes a heavy traffic jam. That's why many people were stuck there and lost their lives due to low-degree temperatures. After that incident, the other one is the devastation of flood which caused loss of lives and also economic

loss. Thousands of homes and our tourism points have been destroyed and damaged by the flood.

Our proposed solution for the above explained problem is Artificial intelligence-based website and application which save the life of people by alerting them about the changing of climate condition and information about the routes. This system can also be able to solve the problems of tour management system.

1.2. Motivations and Challenges

Our motivations bounded with the recently occurred incident of snow storms and the devastation of floods in northern areas. We observed that we should need a system that is AI-based and try to protect people's lives in that type of severe condition. Further, we observed a lack of management in our tourism industry. Our biggest is to develop our website and application using artificial intelligence because as we know our country is very behind in the race of AI. To make our system responsive and efficient was another challenge for us. Collection of information about routes of Northern areas and information of places to visit and connection of weather forecast and our site and application was also a big part of our challenges.

1.3. Goals and Objectives

Our major goal is to design a system that guides people about routes, and alerts people about weather conditions so they schedule their plans accordingly. Our plan is to design a system that also acts as a tourism management system. Our major objective is to try to save the lives of people with the help of that kind of system which I have explained above.

1.4. Literature Review/Existing Solutions

There are thousands of websites and applications that managing the workings of tour management systems but we have a different perspective in the market. We are going to develop AI agent base website and application so according to our perspective there is no competitive in the market.

1.5. Gap Analysis

The other tourism websites are doing all the jobs like booking hotels, arrangements for travel, and information about visiting places but our site and application are trying to inform people about threats that might be they have to face during the trip and also doing these arrangements which I have already explained.

1.6. Proposed Solution

Our proposed solution for the above explained problem is Artificial intelligence-based website and application which save the life of people by alerting them about the changing of climate condition and information about the routes. This system can also be able to solve the problems of tour management system.

1.7. Project Plan

WBS and Gant Chart are listed below according to the activities. We are going to perform with relevant dates and responsibilities assign to the team members. All the activities are specifically assigned by the team leader with respect to their relative abilities.

1.7.1. Work Breakdown Structure

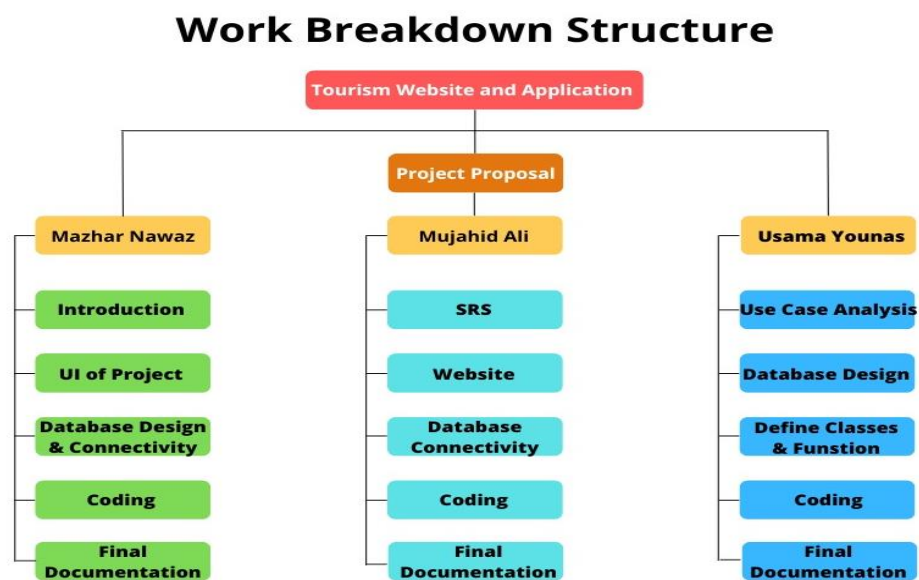


Figure 1.1

1.7.2. Roles & Responsibility Matrix

The purpose of roles & responsibility matrix is to identify who will do what.

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Executive Summary		Research on Idea	2	Mazhar Nawaz & Mujahid Ali
2	Introduction	1. 1	Problems Identify and present idea	5	Mazhar Nawaz
3	SRS	2. 1	Define functional and non-functional requirements	7	Mujahid Ali
4	Use Case Analysis	3. 1	Identify Use cases	3	Usama Younas
5	System Design	4.1	Design the working diagrams	15	All team
6	Implementation	5	UI of Application	7	Mazhar Nawaz
7	Implementation	5	Design Website	15	Mujahid Ali
8	Implementation Tools and Technique	5.4	Describe the tools used for develop web & Application	2	Mujahid Ali, Mazhar Nawaz
9	Database Design	5	Design the database	6	Usama Younas
10	Database Connectivity	5	Connection of Web and App Database	2	Mazhar Nawaz, Mujahid Ali
11	WBS	1.8.1	Define the working	1	Mazhar & Usama
12	Gant Chart	1.8.3	Evaluate the working process	1	Mazhar & Mujahid
13	Empathy Map	1.10	Overview all process	2	Usama Younas

Table 1.1

1.7.3. Gantt Chart

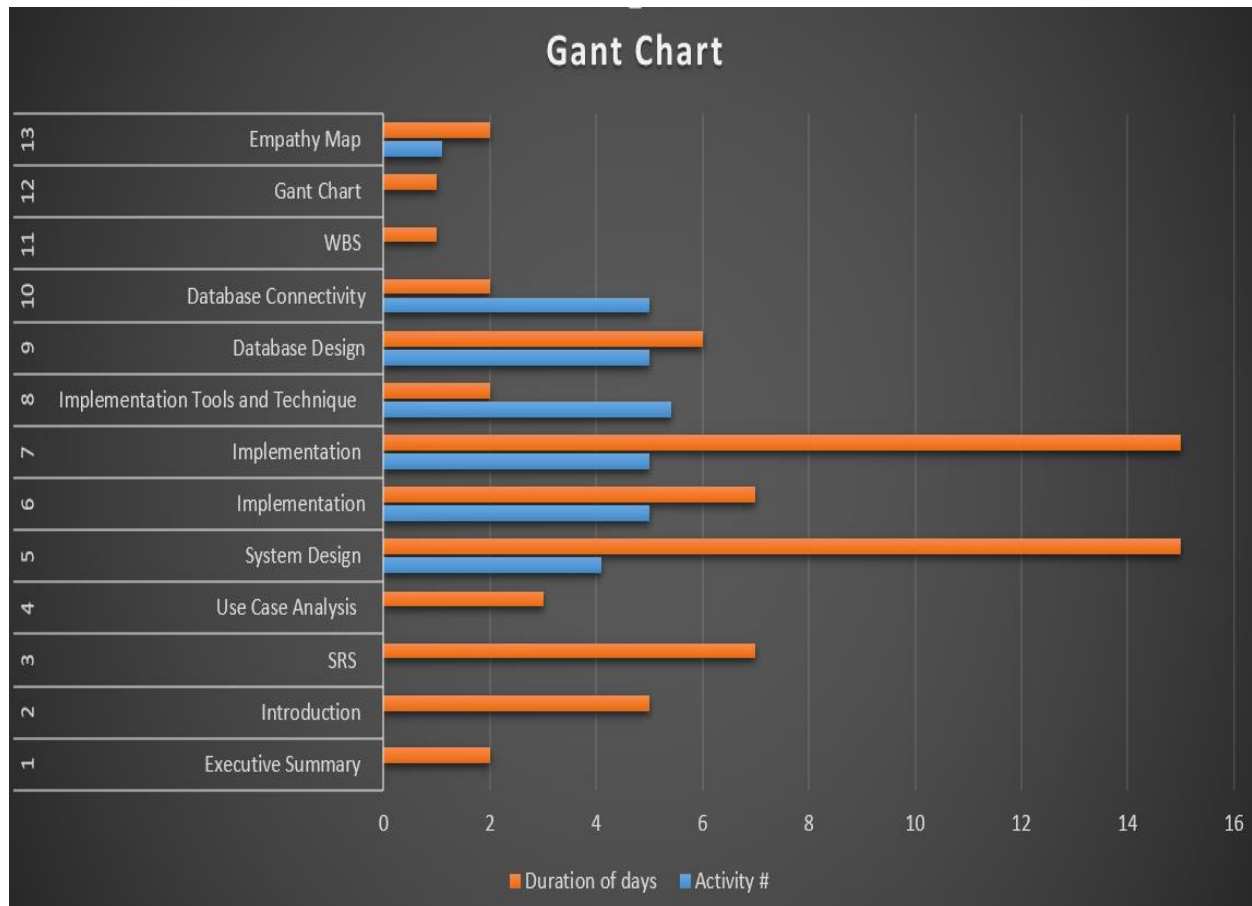


Figure 1.2

1.8. Report Outline

By using our designed system users can plan their trips in an efficient way and can save themselves from an inconvenient situation. Our website and application also fulfill the requirements of a tourism management system which is also beneficial for users. Our website and application help our tourism industry to grow. It is a great opportunity for the people who are connected with the business of tourism to grow their business and help the economy of our country and earn better profits by putting fewer effort.

1.9. Empathy Map

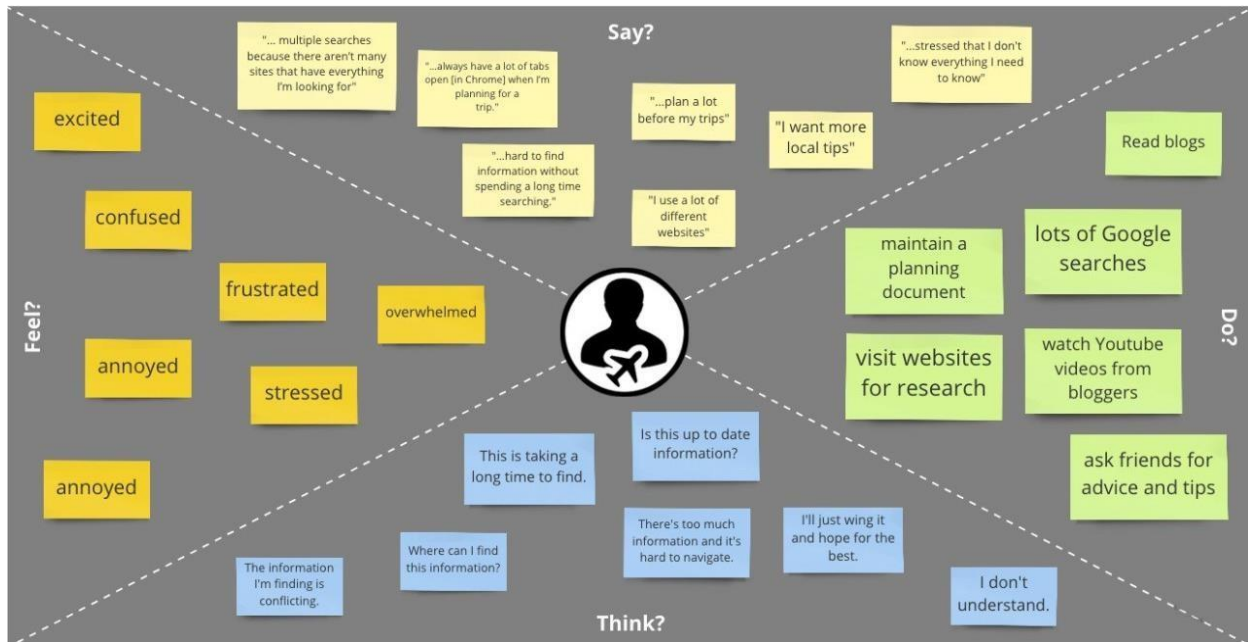


Figure 1.3

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

- Trying to save lives.
- Strengthen the local economy.
- Make things easy for tourists.
- Guide the tourist about the places to visit.
- Manage the all activities of tour efficiently and properly.
- Opportunity to grow business of the people who connected with tourism.

2.1.2. Document Conventions

We have made a standard document we didn't used special conventions. We used Calibri 12" with justified paragraph and line spacing is 1.5, only headings are bold and we didn't used italic font.

2.1.3. Intended Audience and Reading Suggestions

This document is intended for developers and tourism agencies who wish to read about how the application and website does work. Rest of SRS contains work flow of the application and website, how it works, flow of data and their functionalities.

- For developers there is a need to start with the introduction and understand workflow diagrams and implementation of applications and websites.
- The management of tourist agencies, sequence of reading is from the introduction and read all descriptions including scope and functionalities.

2.1.4. Product Scope

Our website and application will provide all facilities to tourists i.e., accommodation, transportation, travel, management of events, information about different and exciting visiting

places, etc. But our additional service on our website and application generates alerts in different weather conditions and other natural disasters so that we can try to save people's lives. In the future, our project can act like a tour guide after adding different features.

2.1.5. References

There are no references are used.

2.2. Overall Description

2.2.1. Product Perspective

Web and application is designed for management of all activities of tourism with additional features. This could include information about the destination, such as historical and cultural sites, as well as activities and events that are available to visitors. It could also include details about the accommodations, transportation, and other logistics necessary for a successful trip. In addition, the product perspective might include information about the unique or special features of the destination that set it apart from other tourist destinations, such as its natural beauty or unique local culture. Overall, the product perspective should aim to give potential tourists a clear and compelling picture of what they can expect from a visit to the destination.

2.2.2. User Classes and Characteristics

Classes	Characteristics
Admin	Admin can log in to the website. Admin can access and manage the whole website and application. Admin can add, delete, and modify any kind of data or information from the website and application.
User	Users can create an account on the website and also log in to the website. Users will be able to see information about different packages of the tour, information about different hotels, information about traveling, information about different hotels,

	etc. Users will also be able to see different precautions for traveling. Users can easily contact an agent through our website or application. Users will also be able to give suggestions.
Agent	An agent can sign up and sign in to our website and application. The agent will be able to make different packages of tours and see information about different places, hotels, restaurants, etc. The agent will also be able to give suggestions.

Table 2.1

2.2.3. Operating Environment

- Website can be access by mobile phone, laptop, desktop or any other device.
- Application can be access by mobile phones, tablets etc.
- Our website and application are public so any user can access them.
- Admin can also access website and application.

2.2.4. Design and Implementation Constraints

We easily designed and implemented our website and application without any constraints and limitations. As we are not using any special hardware component. The software on which we are developing website and application only requires a computer or laptop with minimal hardware compatibilities.

2.2.5. Assumptions and Dependencies

We didn't assume any new factor which can affect our SRS statement. Our product has two parts one is application and other is website with few important dependencies on which they depend. The dependencies for website are PHP, JavaScript, WordPress and Database. Application depends on few dependencies like Android, SQL Server. These are the core dependencies of our system without these we won't be able to run the website and application.

2.3. External Interface Requirements

2.3.1. User Interfaces

We developed this website and application for tourists with unique style. GUI of the application and website consists of buttons, forms, text fields, password fields, tables, and search bar. We use the font family of our application and website is Tahoma and Times New Roman.

GUI consist of the following things:

- Buttons
- Forms
- Text fields
- Password fields
- Tables
- Search bar

2.3.2. Hardware Interfaces

A user Admin and an agent can access website and application using following devices

- Laptop
- Mobile phone
- Tablet

2.3.3. Software Interfaces

Our website requires a web browser installed on the device on which we are trying to access the website and our application requires a play store on the device on which we are trying to use the application.

2.3.4. Communications Interfaces

There are no specific communication requirements of our website and application. We require only a network connection.

2.4. System Features

Application and website are developed for management of different problems of tourism and traveling, ease of tourists and for their safety purpose.

The features of our website and application are following:

- Maintain information about different visiting places.
- Generate alert in different weather conditions.
- AI agent base website and application.
- Management of traveling.
- Management of hotels booking.
- Awareness of routes.
- Generate Alert in case of any natural disaster

2.4.1. System Feature 1

Admin

2.4.1.1. Description and Priority

Our website and application are developed for tourism management with additional feature of AI. Admin of website and application can manage whole website and application. Admin will be able to do any changes in website and application. He will be able to change, delete, and addition of any kind of information.

2.4.1.2. Stimulus/Response Sequences

If admin wants to perform any action, then first, he will go site or application and login as admin with his credentials. Admin can visit profile of registered user and update profile of registered users. Admin will access the database and see all record of registered users also manage these records. Admin can modify, upload and delete any kind of content on website and application. Admin can logout from the website and application.

2.4.1.3. Functional Requirements

Functional requirements of Admin Panel are following

REQ-SF1-1: Login

REQ-SF1-2: Profile Update

REQ-SF1-3: Profile Visit

REQ-SF1-4: Database

REQ-SF1-5: Data

REQ-SF1-6: Content Modification

REQ-SF1-7: Content Upload

REQ-SF1-8: Content Deletion

REQ-SF1-9: Logout

2.4.2. System Feature 2

User

2.4.2.1. Description and Priority

User can visit our website and also login to our application as a customer or visitor. User can see information of different visiting places and also check details of different packages.

2.4.2.2. Stimulus/Response Sequences

If the user wants to perform any action, then he will go to web browser and visit our website or he can download application from play store. If user wants to login then he can login to our website or application otherwise he can visit both without logging in but in case of purchasing any package he will have to login. User can check all details of packages. He can get information about different places to visit. He can apply filter on packages. If user login then website and application can save all his record in database. Website and application can update user profile and traveling history also be maintained. User can select different payment methods and can get slip after paying for a specific package. User can also give feedback. User can logout from website and application.

2.4.2.3. Functional Requirements

Functional requirements of the user are following:

REQ-SF2-1: Apply Filters

REQ-SF2-2: Login/Logout

REQ-SF2-3: Uploading

REQ-SF2-4: Database Record

REQ-SF2-5: Profile Update

REQ-SF2-6: View/Selection

REQ-SF2-7: Payment

2.4.3. System Feature 3

Agent

4.4.3.3. Description and Priority

Agent can login to website and application. He can perform different operations on his/her profile. He will be able to make different packages.

2.4.3.2. Stimulus/ Response Sequence

Agent enters his/her credentials to login to website and application. After logging in agent can visit his/her profile. If agent wants to change information in his/her profile information then he can easily update his/her profile. Agent can make new packages, delete old packages, or modify packages on website and application. Agent can logout from website and application.

2.4.3.3. Functional Requirements

Functional requirements of the agent are following:

REQ-SF3-1: Login

REQ-SF3-2: Update Profile

REQ-SF3-3: Profile Visit

REQ-SF3-4: Operation on Content

REQ-SF3-5: Logout

2.5. Nonfunctional Requirements

2.5.1. Performance Requirements

Performance of this website and application is very efficient and immediately fetch record from database. Our website and application will be able to solve immediately any issue of their users in an efficient way.

2.5.2. Safety Requirements

We use database for saving record and if database crash due to any reason so there we needed a backup of data. We are using cloud storage for backup. If we face any issue in domain and hosting then we have backup server to deal with this problem.

2.5.3. Security Requirements

Any information of agent, user, and admin shall not be leaked and will be securely saved in database. Only authorized users can access the sensitive data. There should be backup of data in case of any loss of data.

2.5.4. Usability Requirements

We can use website in all kind of computers and smart phones. We can use application in all kind of smart phones.

2.5.5. Reliability Requirements

Website and application shall give reliable response all the time. Multiple techniques use to ensure the reliability of both.

2.5.6. Maintainability/Supportability Requirements

Website and application will be update time to time and if something bad happens then website and application will be able to recover quickly.

2.5.7. Portability Requirements

Our website will support all web browser. Website will support all kind of computers like desktop, laptops, etc. And also, phones having web browser. Our application will be downloaded from play store. Application will support all kind of smart phones.

2.5.8. Efficiency Requirements

We improve the efficiency with better maintenance and support and with better user experience.

2.6. Domain Requirements

- Push Notification
- Multi Language Support
- Customer Support

Chapter 3

Use Case Analysis

Chapter 3: Use Case Analysis

This chapter is all about the roles and functionalities of the system and its actors in the use case form. All actors with respect to their responsibilities. We have made a use case diagram in which we've properly defined each and every functional requirement of the system. In the use case given below explains the relation between actors and their functionalities.

1.1. Use Case Model

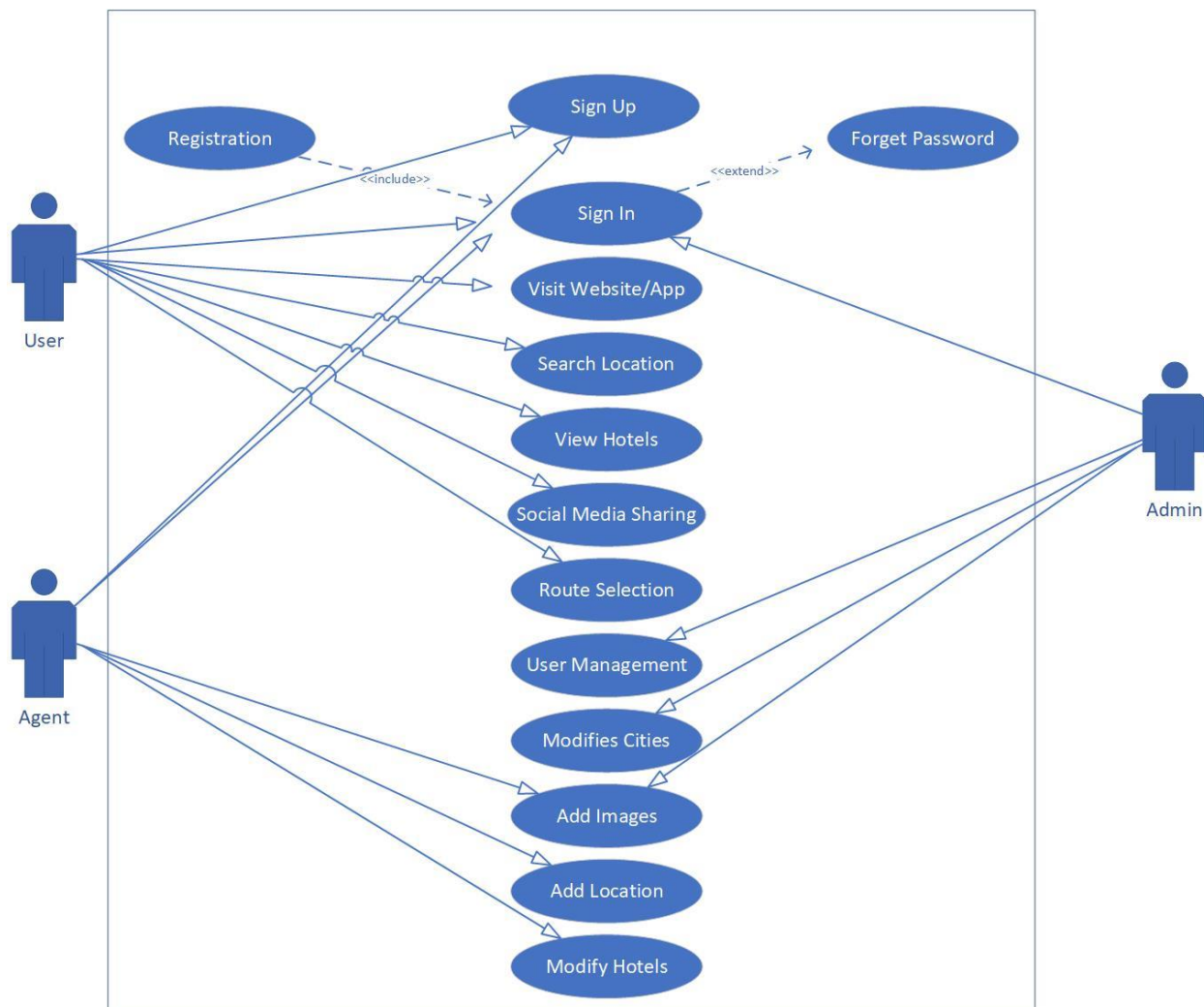


Figure 3.1

1.2. Use Cases Description

1. Use case Name:

- Sign In

Use case description:

User login to system to get access to home page.

Actors:

- User

Pre-Conditions:

- User should be registered
- User should connect to internet

Post-Conditions:

- After Successful login user can access to home page screen

Main Scenario:

- Enter username
- Enter password
- Press the Submit Button
- System will give access to home page screen

Alternative:

- User may enter invalid username
- User may enter invalid password

2. Use case Name:

- Sign up

Use case description:

This use case is about signup of a user who visits the website. Signup is required to avail different features such as package selection, posting reviews or images and to checkout.

Actors:

- User/Admin/Agent

Pre-Conditions:

- An internet connection is needed and sign-up form must be filled.

Post-Conditions:

- After Successful signup user can login and access to home page screen.

Main Scenario

- Enter Username
- Enter email
- Enter the password
- System will give access to home page screen

Alternative:

- User may enter invalid username
- User may enter invalid email

3. Use case Name:

- Visit Site/Mobile App

Use case description:

This use case is about visit website/App for tour details tours booking explore services and book a trip according to their choice.

Actors:

- User

Pre-Conditions:

- User must be login and need internet connection.

Post-Conditions:

- User can view the home page and all features of website/mobile app and book their order according to their choice.

Main Scenario:

- User login successfully
- User view the home screen
- User view the locations
- User view the details

- User book a tour

Alternative:

- User may enter invalid username and password.
- User may enter invalid email.
- Internet Connectivity issues.

4. Use case Name:

- Search Location

Use case description:

This use case is about searching different locations to visit.

Actors:

- User

Pre-Conditions:

- User must be login and need internet connection.

Post-Conditions:

- User view home screen.
- View information about different location

Main Scenario:

- User login successfully
- User view the home screen
- User view information about location to visit.

Alternative:

- User enter invalid username and password.
- Internet Connectivity issues.

5. Use case Name:

- View Hotels

Use case description:

This use case is about viewing details of different hotels.

Actors:

- User

Pre-Conditions:

- User must be login and need internet connection.

Post-Conditions:

- User view home screen.
- View information about different hotels

Main Scenario:

- User login successfully
- User view the home screen
- User view information about hotels for stay.

Alternative:

- User enter invalid username and password.
- Internet Connectivity issues.

6. Use case Name:

- Social Media Sharing

Use case description:

- This use case is about social media sharing. A user can give reviews on different social media sites after logging in.

Actors:

- User

Pre-Conditions:

- User must be login and need internet connection.

Post-Conditions:

- User view home screen.
- User can share images after logging in social media accounts.

Main Scenario:

- User login successfully
- User view the home screen
- User will be able to upload images and share his suggestions.

Alternative:

- User enter invalid username and password.
- User may not have social media account.
- Internet Connectivity issues.

7. Use case Name:

- Route Selection

Use case description:

This use case is about selection of route to travel.

Actors:

- User

Pre-Conditions:

- User must be login and need internet connection.

Post-Conditions:

- User view home screen.
- Explore information about different routes

Main Scenario:

- User login successfully
- User view the home screen
- Explore different routes.
- User select route to travel.

Alternative:

- User enter invalid username and password.
- Internet Connectivity issues.
- User want to visit prohibited area.

8. Use case Name:

- Administrator Login

Use case description:

This use case is about login of administrator.

Actors:

- Administrator

Pre-Conditions:

- Administrator must be login and need internet connection.

Post-Conditions:

- Administrator view admin panel.
- Administrator can maintain and control website and application.

Main Scenario:

- Administrator login successfully.
- Administrator view the administrator panel.
- Administrator view content of website and app.
- Administrator can modify, delete, and upload content.
- Administrator can maintain and control the website.

Alternative:

- Administrator cannot login successfully.
- Internet Connectivity issues.

9. Use case Name:

- User Management

Use case description:

This use case is about management of user by admin.

Actors:

- Administrator

Pre-Conditions:

- Administrator must be login and need internet connection.

Post-Conditions:

- Administrator view admin panel.
- Administrator can manage user's data.
- Administrator can manage their accounts.

Main Scenario:

- Administrator login successfully.
- Administrator view the administrator panel.
- Administrator view user's data.
- Administrator can modify, delete, and update user's data.

Alternative:

- Administrator cannot login successfully.
- Internet Connectivity issues.

- Database Crash

10. Use case Name:

- Modifies Cities

Use case description:

This use case is about updating of cities. Admin can modify information of cities uploaded by agent.

Actors:

- Administrator

Pre-Conditions:

- Administrator must be login and need internet connection.

Post-Conditions:

- Administrator view admin panel.
- Administrator can update information of cities.

Main Scenario:

- Administrator login successfully.
- Administrator view the admin panel.
- Administrator can view, modify, delete, and upload cities and content.
- Administrator can save changes made by him.

Alternative:

- Administrator cannot login successfully.
- Internet Connectivity issues.
- Database Crash.

11. Use case Name:

- Add images.

Use case description:

This use case is about modification and updating of images.

Actors:

- Administrator

Pre-Conditions:

- Administrator must be login and need internet connection.

Post-Conditions:

- Administrator view admin panel.
- Administrator can modify and upload images of visiting places.

Main Scenario:

- Administrator login successfully.
- Administrator view the administrator panel.
- Administrator can view, modify, delete, and upload images of different visiting places.
- Administrator can save changes made by him.

Alternative:

- Administrator cannot login successfully.
- Internet Connectivity issues.
- Database Crash.

12. Use case Name:

- Agent Login

Use case description:

This use case is about login of agent.

Actors:

- Agent

Pre-Conditions:

- Agent must be login and need internet connection.

Post-Conditions:

- Agent login successfully.
- Agent can modify and control content uploaded by him.

Main Scenario:

- Agent login successfully.
- Agent views the dashboard.
- Agent can modify and control data.
- Agent can manage the user section.
- Agent can make a package of tour on his profile.

Alternative:

- Agent cannot login successfully.
- Internet Connectivity issues.

13. Use case Name:

- Add Images

Use case description:

This use case is about adding images by agent.

Actors:

- Agent

Pre-Conditions:

- Agent must be login and need internet connection.

Post-Conditions:

- Agent login successfully.
- Agent can upload content and images successfully.

Main Scenario:

- Agent login successfully.
- Agent views the dashboard.
- Agent can view, delete, modify and uploads images from website and app.

Alternative:

- Agent cannot login successfully.

- Internet Connectivity issues.
- Crash Database.

14. Use case Name:

- Add Locations

Use case description:

This use case is about adding places by agent.

Actors:

- Agent

Pre-Conditions:

- Agent must be login and need internet connection.

Post-Conditions:

- Agent login successfully.
- Agent can upload and add new places on website and application.

Main Scenario:

- Agent login successfully.
- Agent views the dashboard.
- Agent can add, delete, modify and view places.

Alternative:

- Agent cannot login successfully.
- Internet Connectivity issues.
- Database Crash.

15. Use case Name:

- Modify Hotels

Use case description:

This use case is about modification of hotels by agent.

Actors:

- Agent

Pre-Conditions:

- Agent must be login and need internet connection.

Post-Conditions:

- Agent login successfully.
- Agent can upload information about hotels.

Main Scenario:

- Agent login successfully.
- Agent views the dashboard.
- Agent can modify and add information of hotels.

Alternative:

- Agent cannot login successfully.
- Internet Connectivity issues.

Chapter 4

System Design

Chapter 4: System Design

In this chapter all the diagrams are given so you can clearly check out the overall working graphically.

4.1. Architecture Diagram

For Website Application

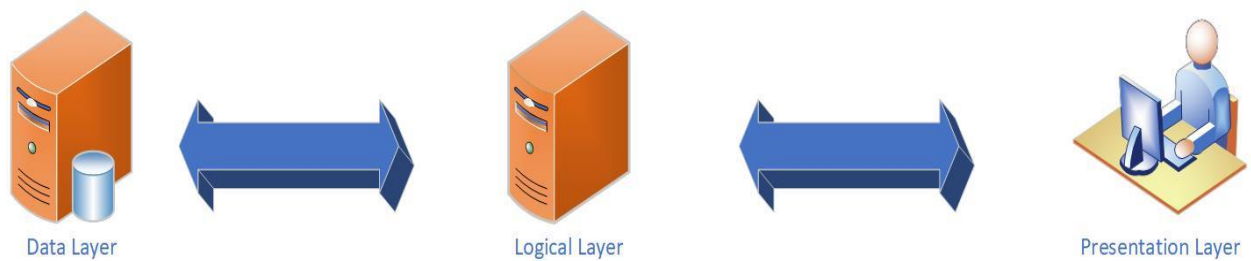


Figure 4.1

For Mobile Application



Figure 4.1

4.2. Domain Model

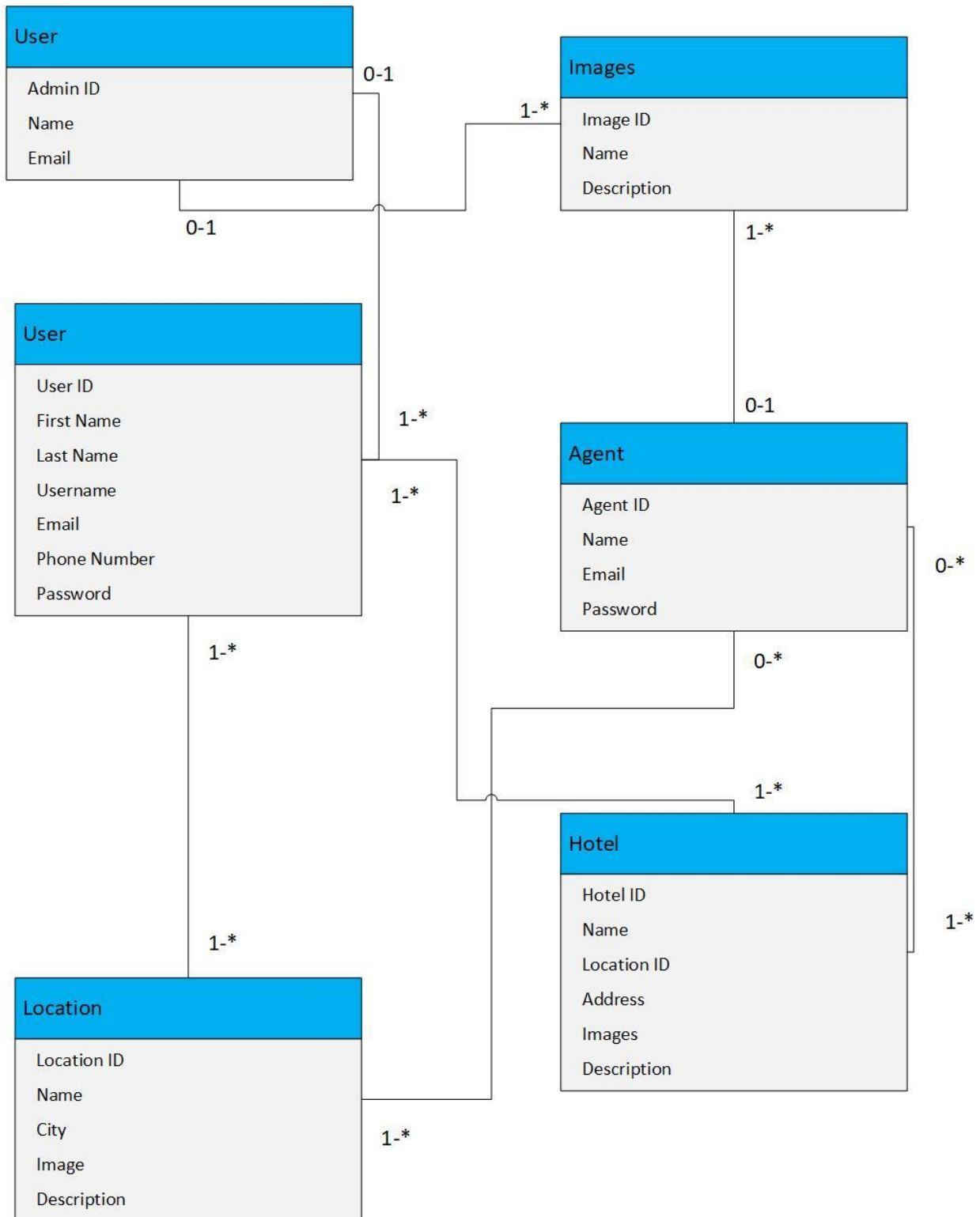


Figure 4.2

4.3. Entity Relationship Diagram with data dictionary

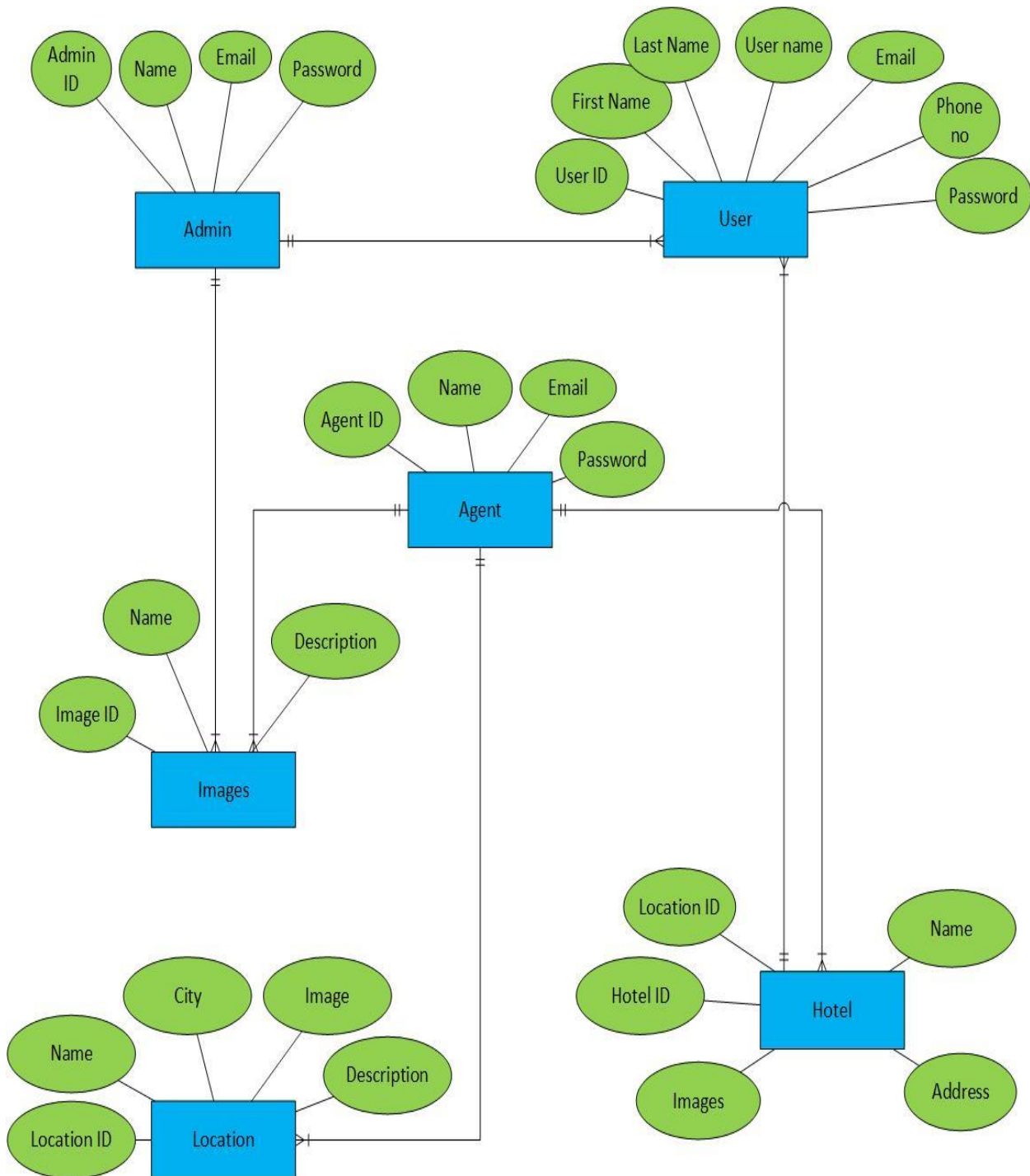


Figure 4.3

4.4. Class Diagram

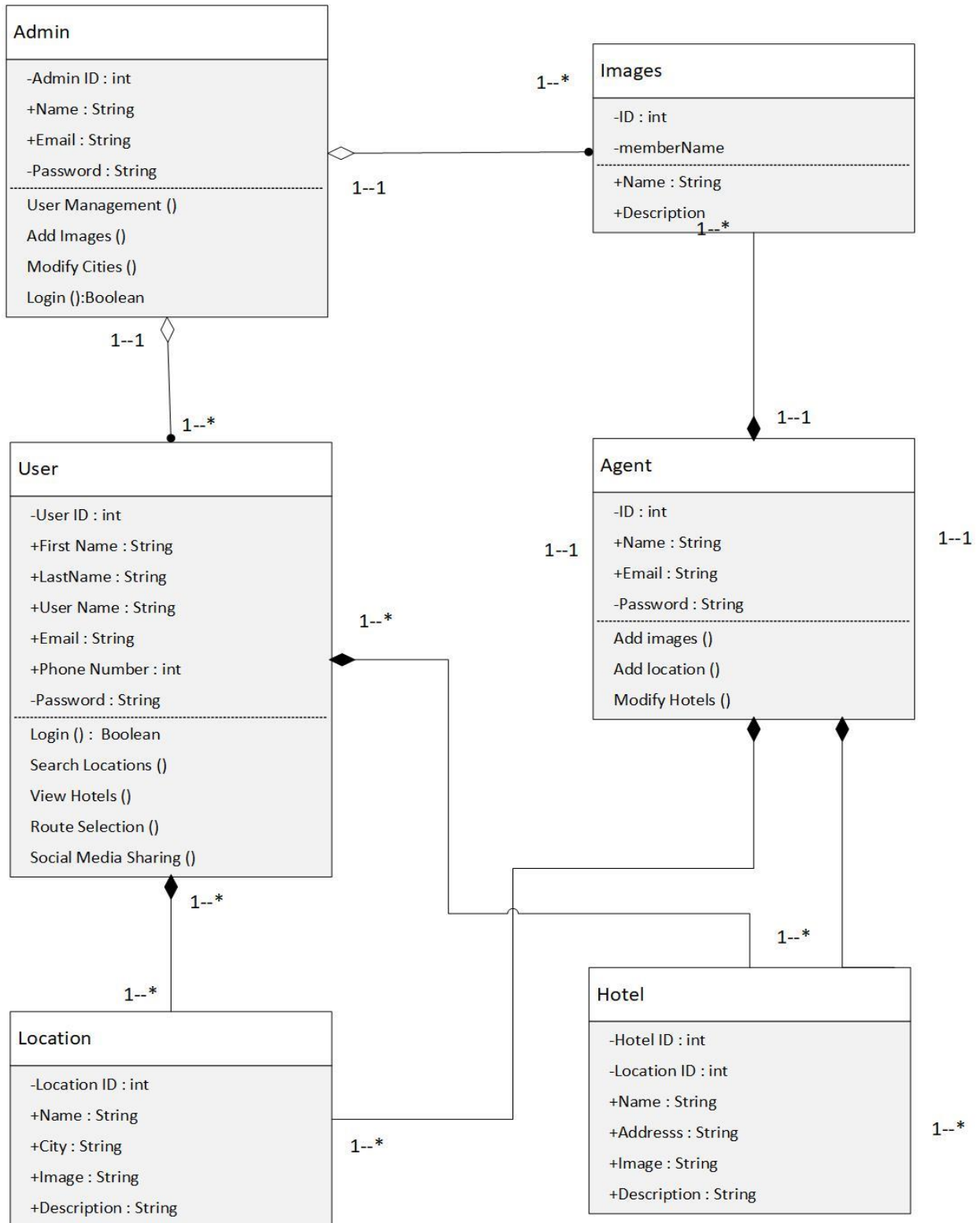


Figure 4.4

4.5. Sequence / Collaboration Diagram

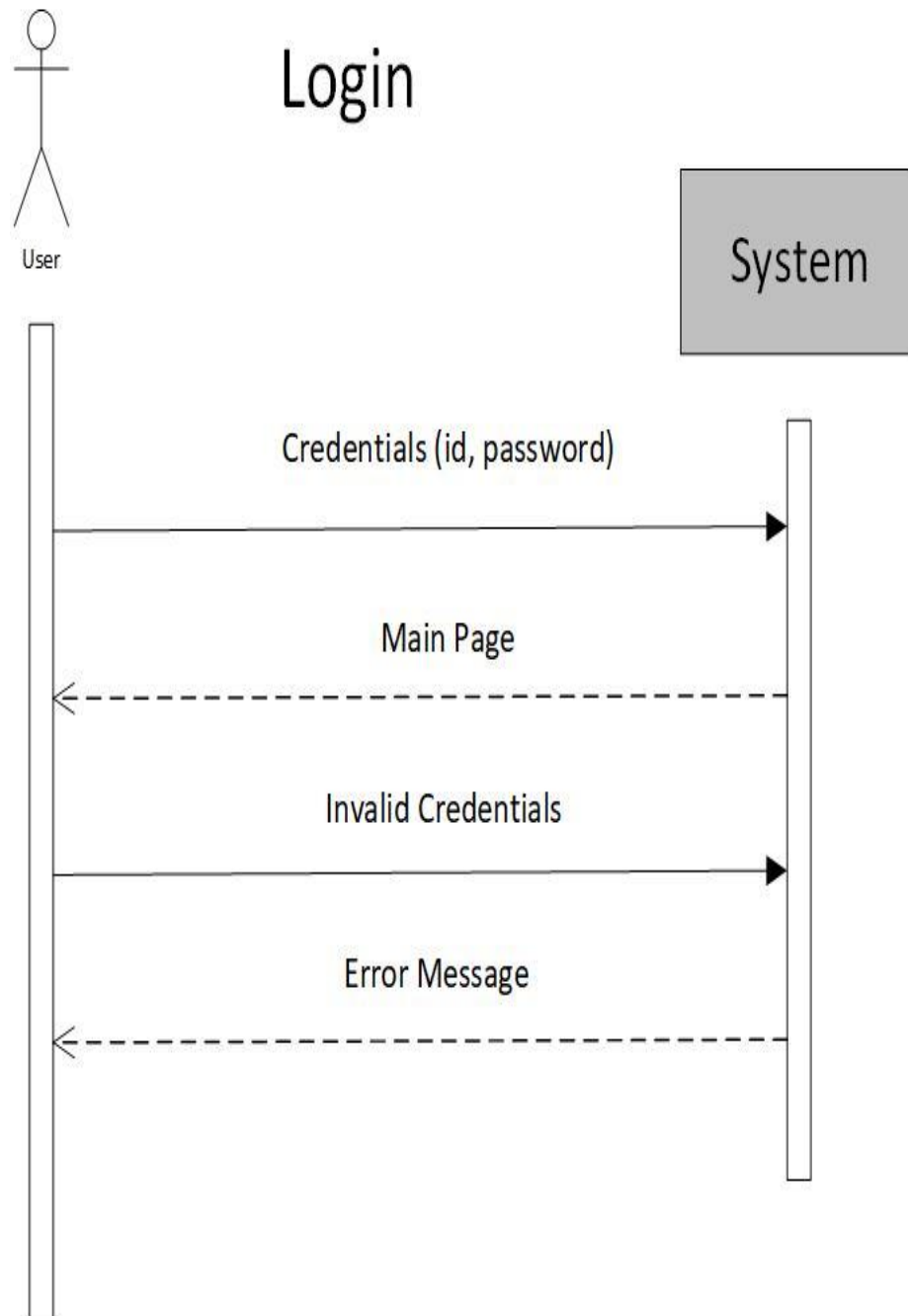


Figure 4.5

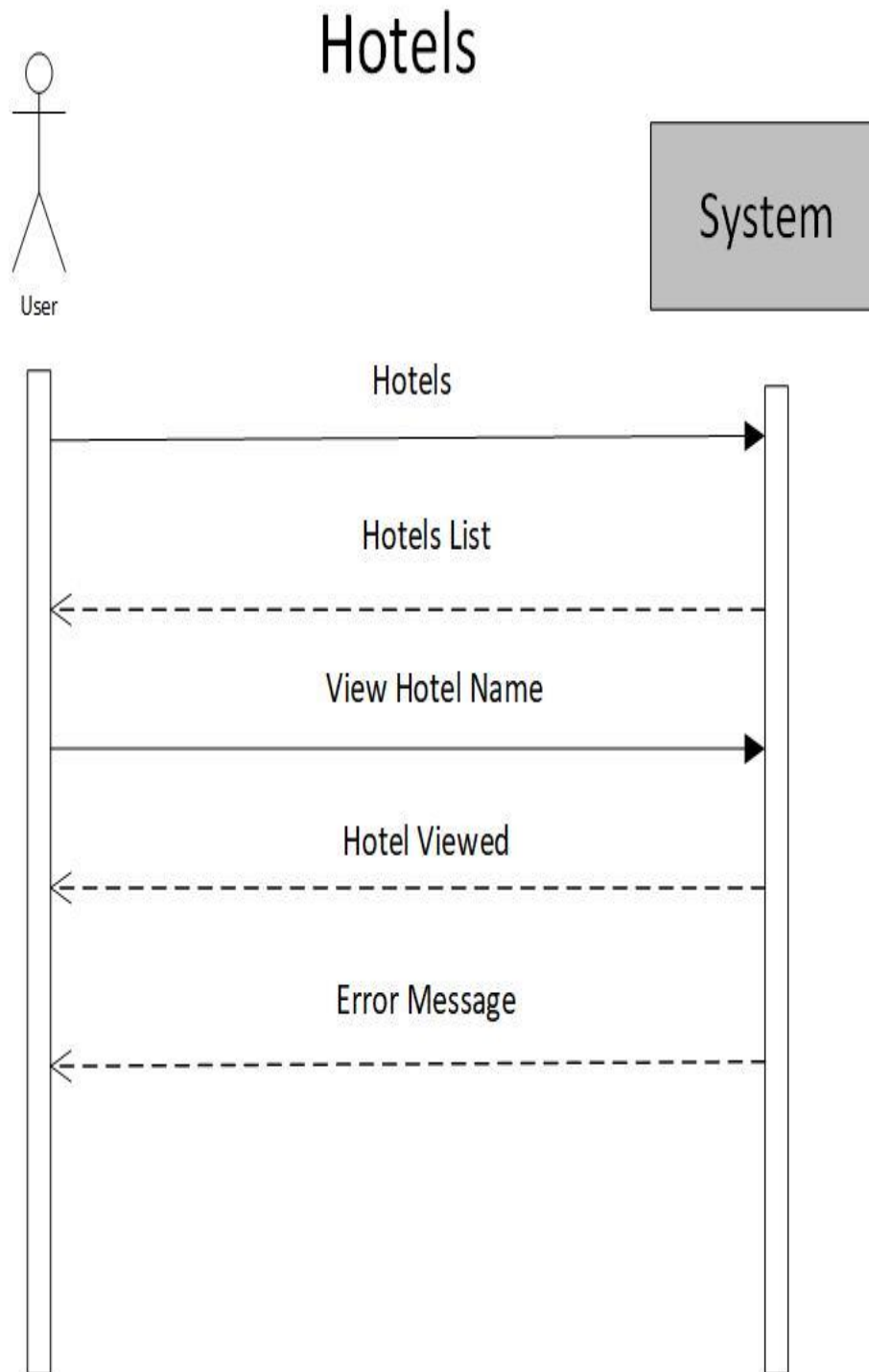


Figure 4.6

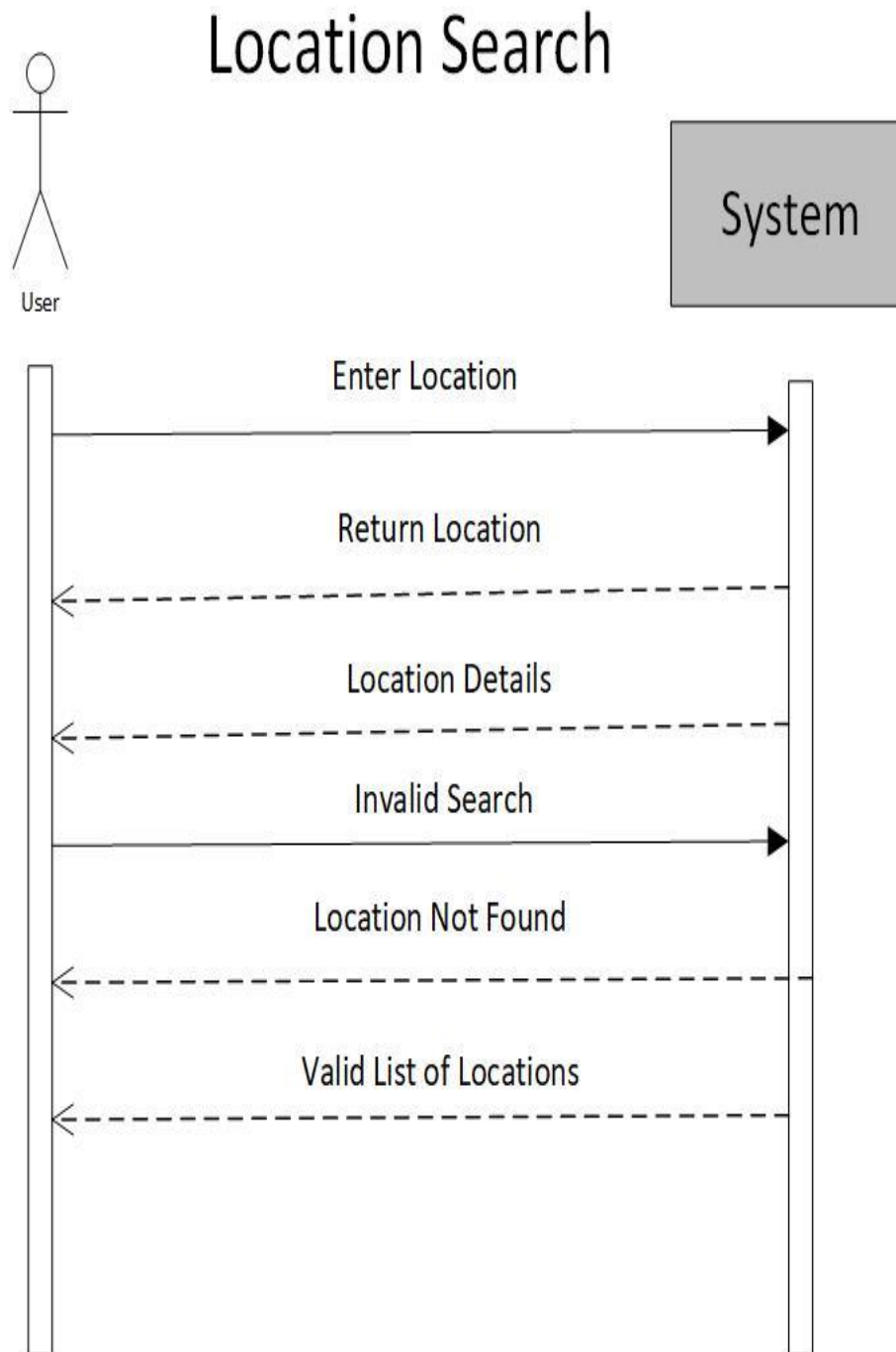


Figure 4.7

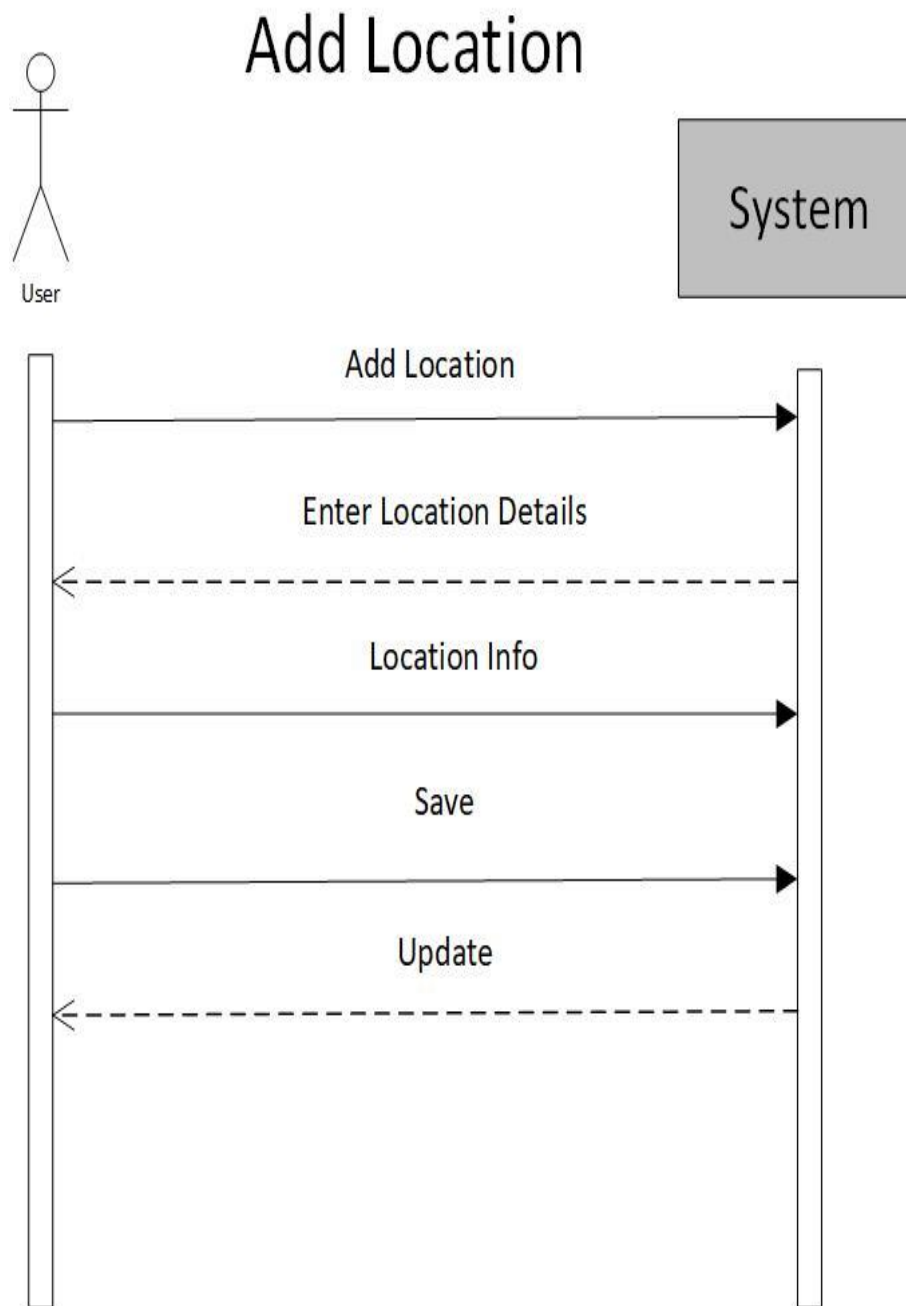


Figure 4.8

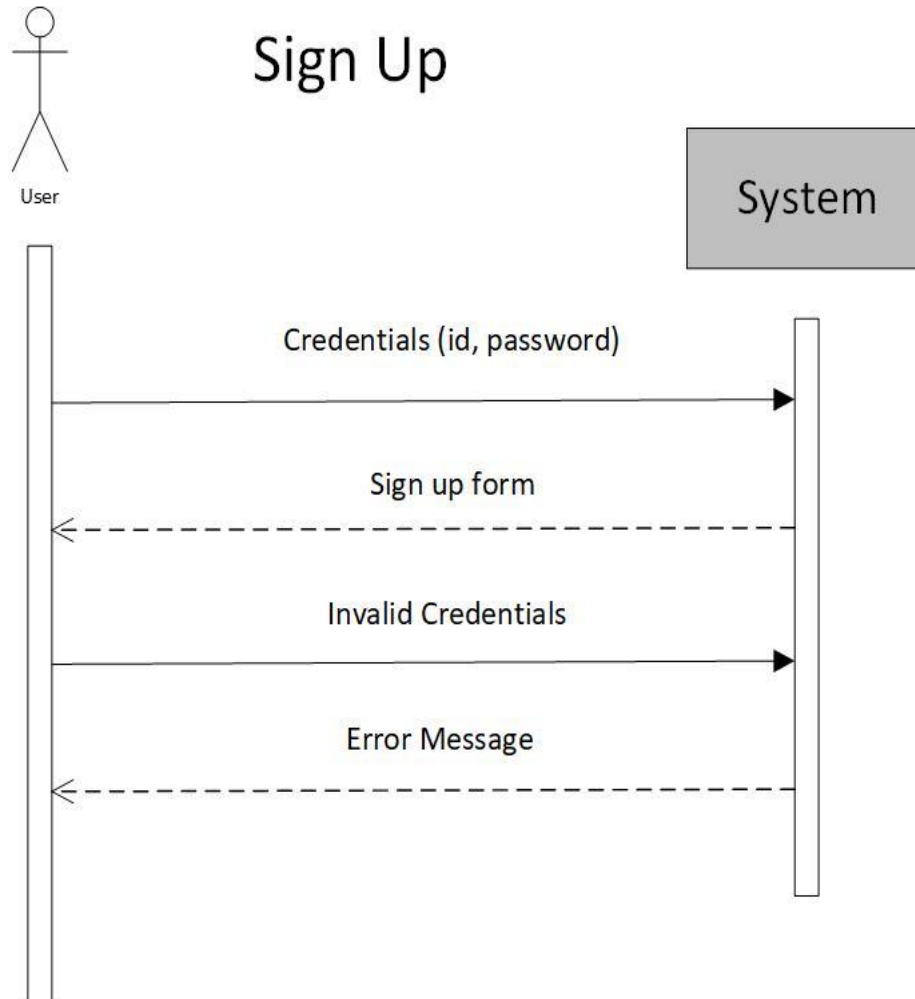


Figure 4.9

4.6. Operation contracts

Operation:

The system should be secure, available for the customer and easy enough for the user.

Cross Reference:

Use Case: Provide services for tour.

Precondition:

Data on Users should be available in the database

Post-condition:

The user should be able to mark attendance, request leave and use virtual cards.

4.7. Activity Diagram

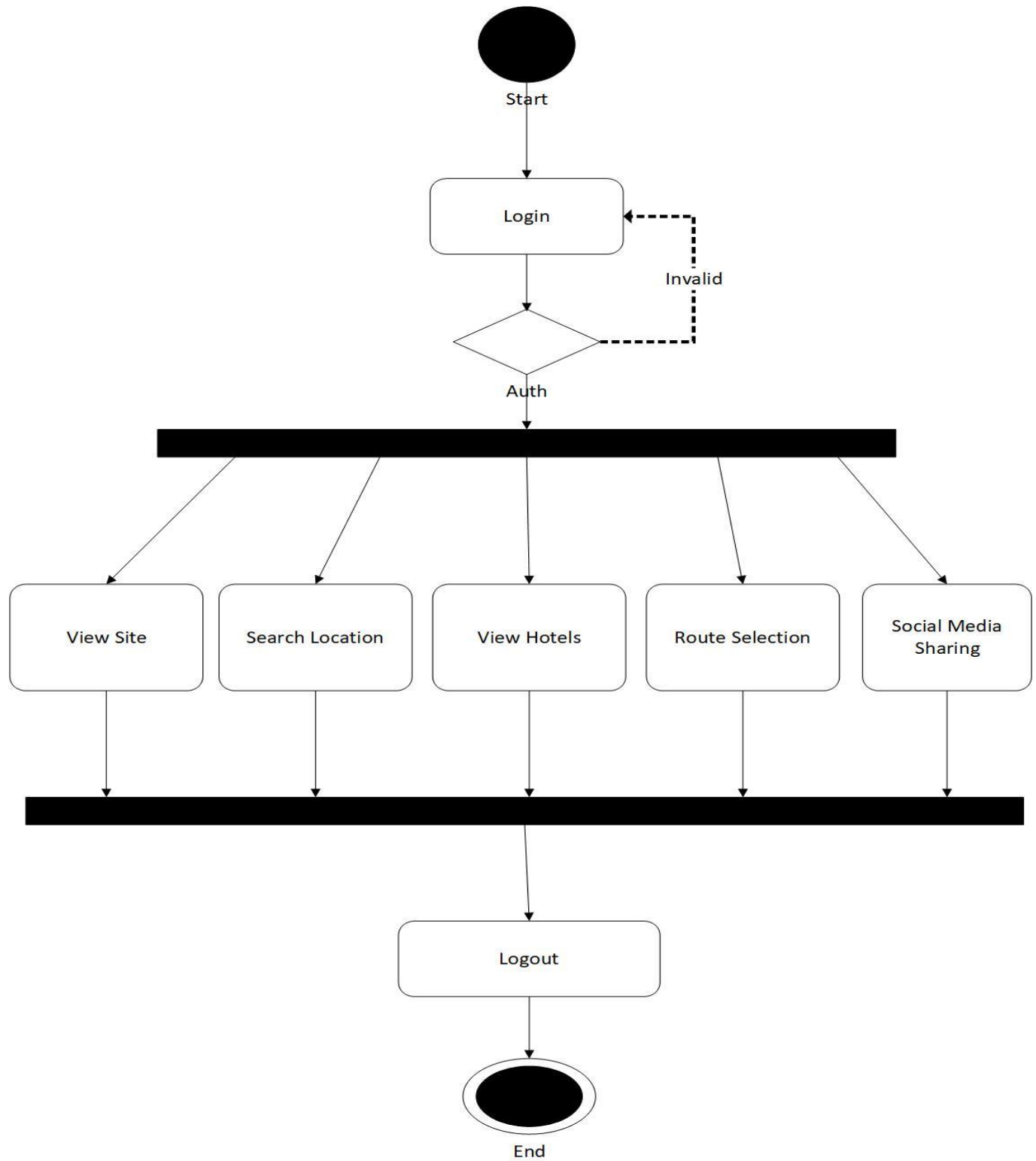


Figure 4.10

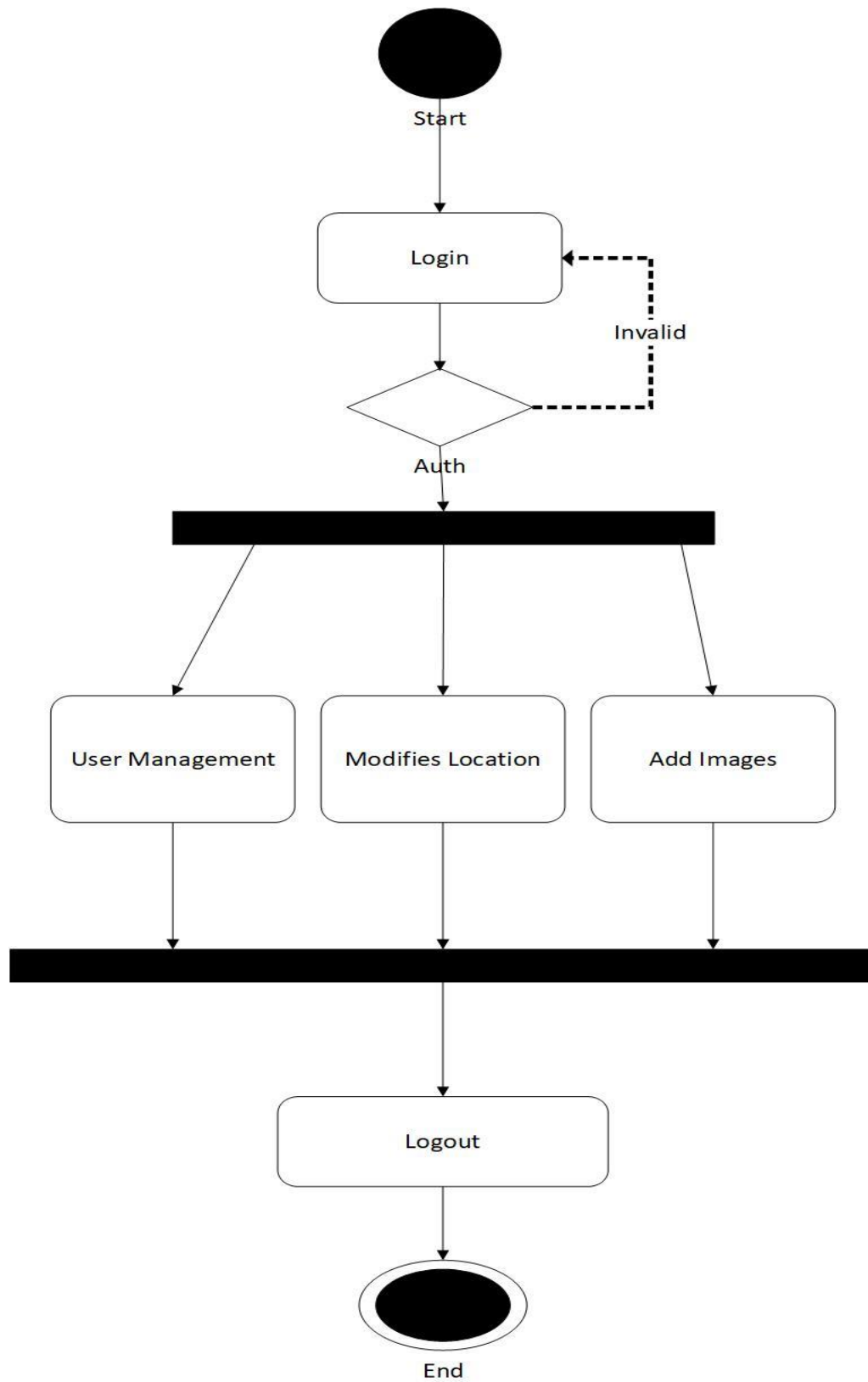


Figure 4.11

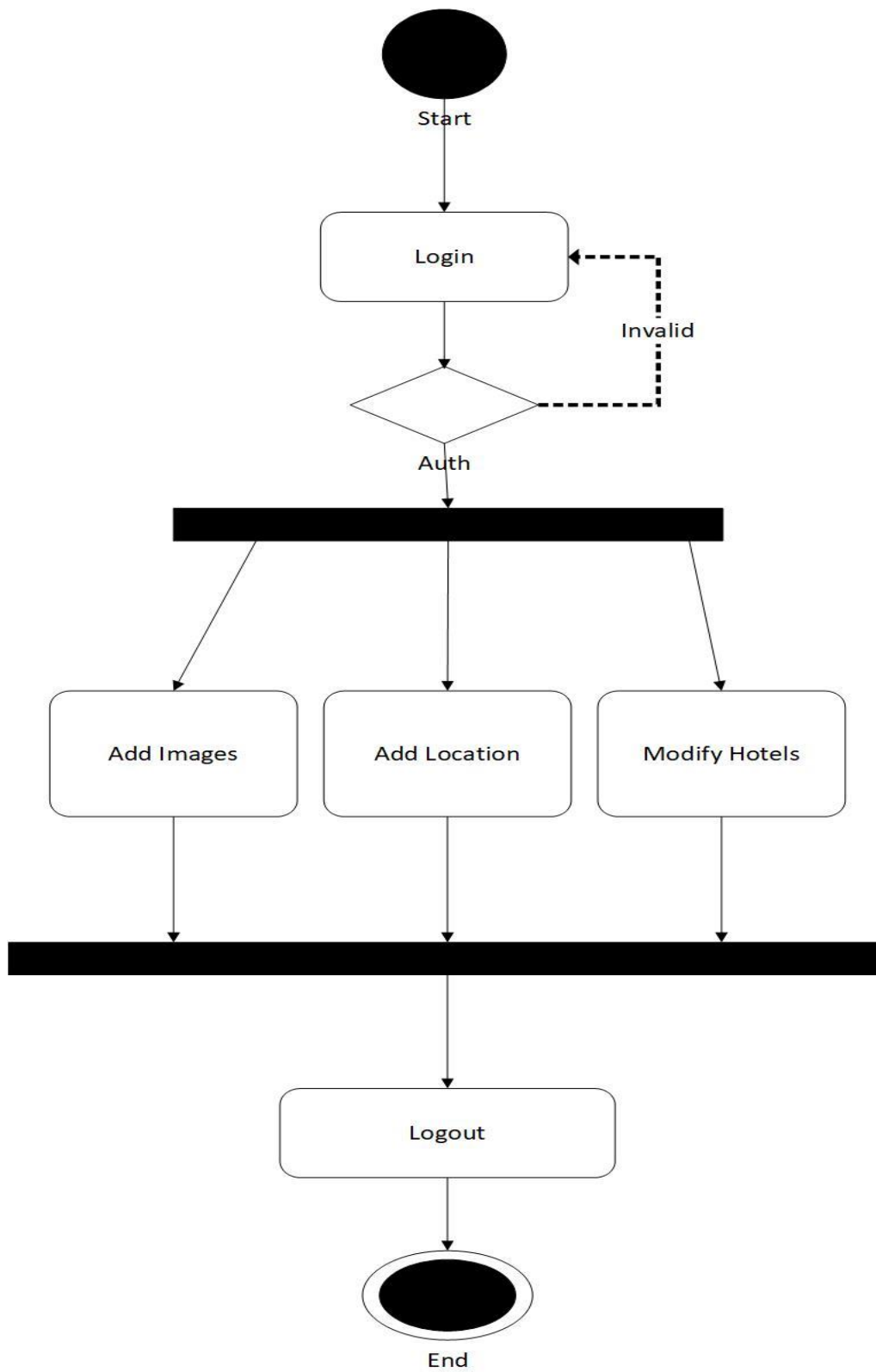


Figure 4.12

4.8. State Transition Diagram

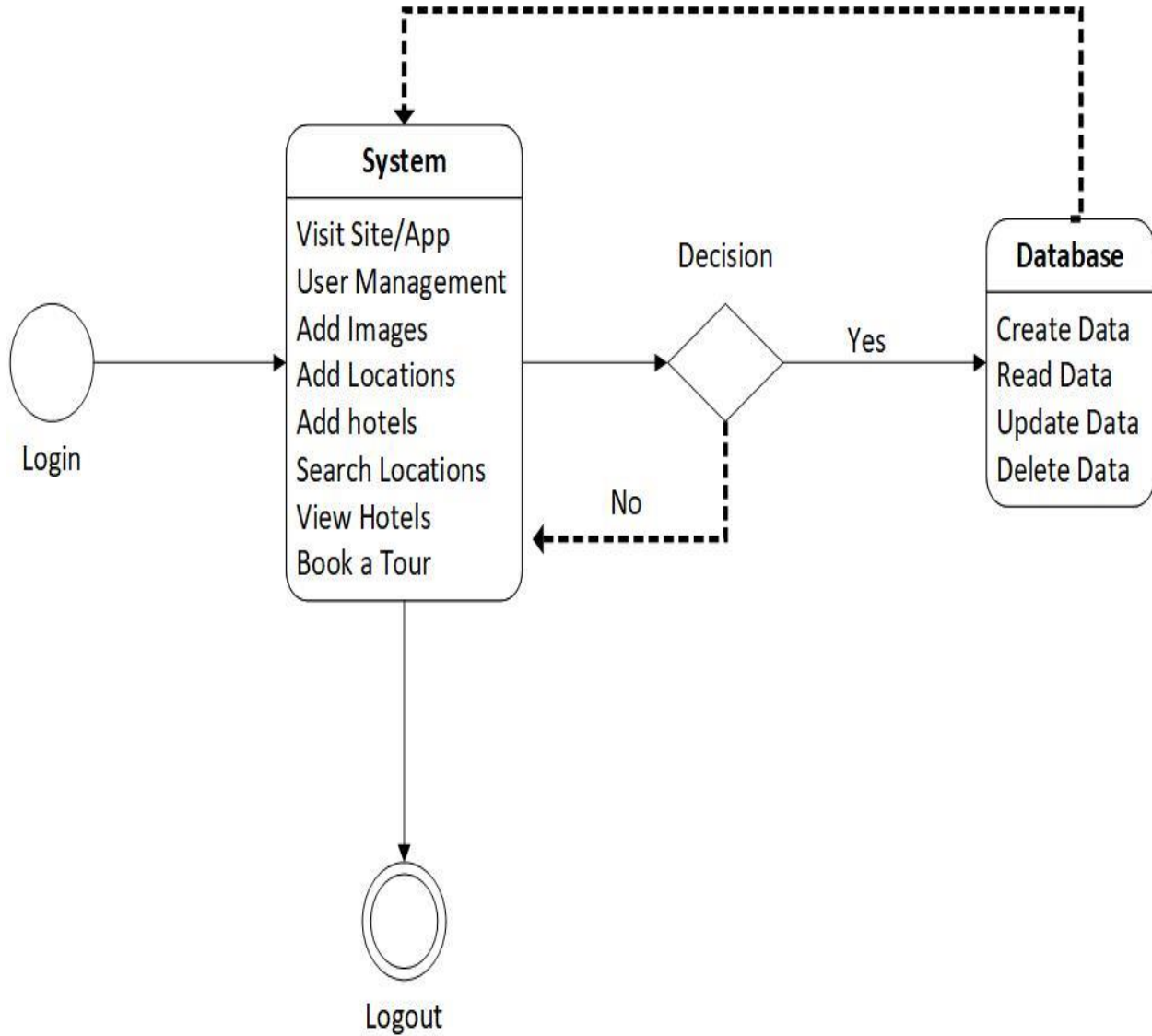


Figure 4.13

4.10. Deployment Diagram

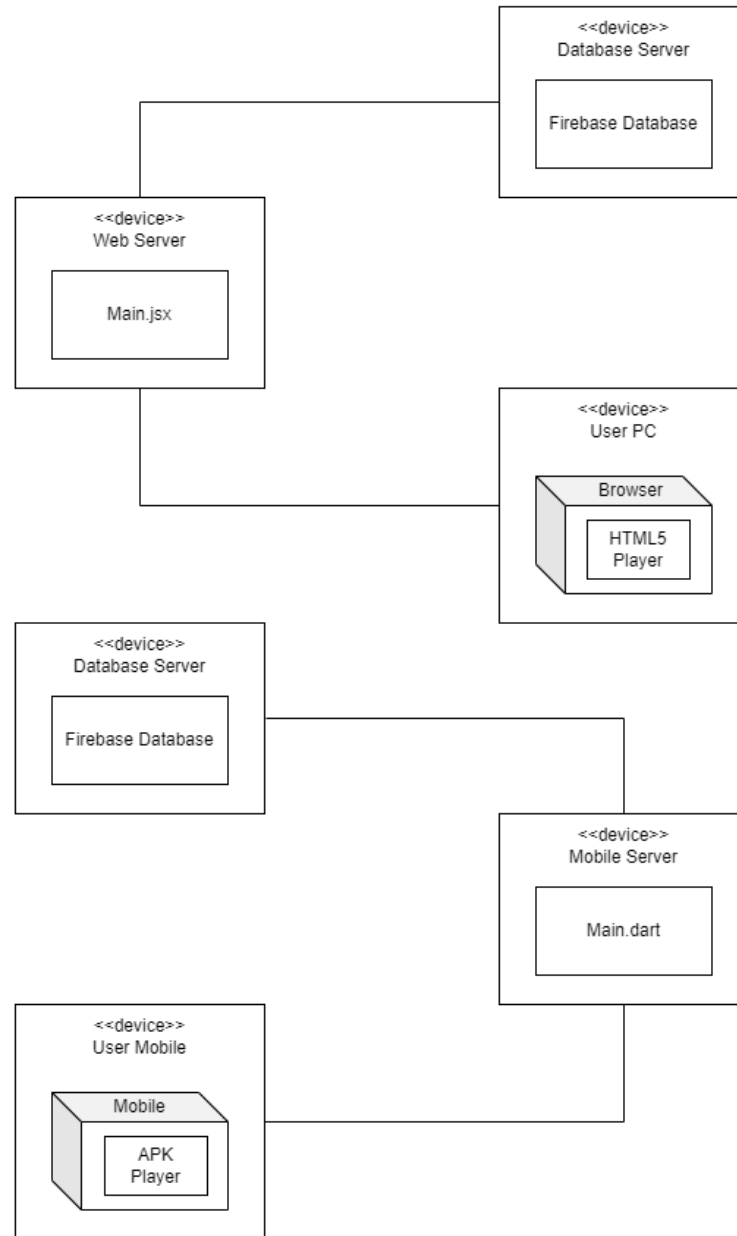


Figure 4.15

Chapter 5

Implementation

Chapter 5: Implementation

This is a task to build up an essential application and website where a user is given a platform where customers can use tour services within Pakistan. This report will talk about every one of the fundamental advances to make and represent an admin Control Panel and Application tools and techniques.

5.1. Important Flow Control/Pseudo codes

Services that this website and application will provide are the following. There are two types of users.

Admin Manage both mobile and web applications. Only the admin can register the user.

End User View tours, book tour and suggest new tour places.

5.2. Components, Libraries, Web Services and stubs

Mobile Based	Web Based
Provider	Vite JS
Cupertino Icon	React Routers
Smooth page indicator	React Redux
Google font	React Hook Forms
Firebase Core	Firebase Auth
Firebase Auth	Firestore
Firebase Storage	Tailwind CSS
Cloud Firestore	Post CSS
Image Picker	Font Awesome
Flutter Slideable	Vercel

Table 5.1

5.3. Deployment Environment

We use Android Studio to construct our android-based application in the deployment environment. Code written in Visual Studio is utilized for web applications. Web applications are deployed using vercel hosting.

5.4. Tools and Techniques

Tools	Microsoft Edge / Chrome
	Android Studio
	Visual Studio Code
	GitHub Desktop
	Adobe Illustrator
	Adobe XD
	Figma
	Git
Technologies	JavaScript
	React JS
	Firebase

Table 5.2

5.5. Best Practices / Coding Standards

- There is no coding replication.
- Classes and functions are always documented to indicate the anticipated input and output.

5.6. Version Control

Distributed version control is utilized with Git. Every change to the code is recorded in a unique form of database. Keeping up with the most recent updates is beneficial.

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

6.1. Use Case Testing

Performance testing is a crucial step in ensuring that both the application and website of the Tour Management System deliver a seamless and satisfactory user experience. It involves evaluating their responsiveness, reliability, scalability, and resource utilization under various load conditions. This section describes the performance testing approaches and methodologies employed to assess and optimize the performance of the application and website.

6.2. Equivalence partitioning

Equivalence Partitioning is a black-box testing technique used to identify a representative set of test cases that effectively cover different input conditions or scenarios. It aims to reduce the number of test cases while still providing sufficient coverage of the system's functionality. The key points of equivalence partitioning are efficiency, coverage, and simplicity and error detection.

6.3. Boundary value analysis

Boundary value testing is the path toward testing between unprecedented completes or cutoff points between bundles of the information regard in AR Heritage App, we are dealing with some Tourist Data, Sites Data, Users Name, Email and Password.

6.4. Data flow testing

Data Flow Testing is a type of testing strategy where the control and data flow aspects of a program are scrutinized. It primarily focuses on the points at which variables receive values and where their values are used. There are various steps that are used in data flow testing Understand the system, Define Test Scenarios, Create Test Cases, Execute Test Cases, Review and Report, Regression Testing, Sign-off.

6.5. Unit testing

Unit testing is a level of software testing where individual units or components of a software are tested. The purpose is to validate that each unit of the software performs as designed. In the case of a tourism-based application, these units could be the search functionality, booking process, user authentication, payment processing, review/rating system, and so on. General process of the unit testing is based on the following points Identify Units to be Tested, Create a Test Plan, Write Test Cases, Execute Test Cases, Check Results and Fix Errors, Refactor Code, Repeat the process.

6.6. Integration testing

Integration testing is a critical phase in the software development life cycle that verifies the proper functioning of individual components when integrated together as a complete system. It focuses on identifying any defects or issues that may arise due to the interaction between different modules, subsystems, or external dependencies. This section outlines the key concepts, approaches, and benefits of integration testing in the context of the website and application. The main objectives of integration testing include detecting interface defects, verifying interface interactions and assembling system behavior.

Test Case 01(Login)

Test Case ID	Test Case 01: Login
Actor	User
Pre-Conditions	User should be registered
Summary	User wants to login to access home page
Events	• User visited the Website and Application • User clicked on sign-in option • The User entered credentials • User press the submit button
Post-Conditions	User is logged-in.

Table 6.1

Test Case 02(Sign-Up)

Test Case ID	Test Case 02: Sign-Up
Actor	User/Admin/Agent
Pre-Conditions	• Internet Connection is required • Sign-Up form must be filled.
Summary	User sign-up to visit website & Application
Events	• User visited the Website and Application • User clicked on sign-up option • The User fill the sign-up form • User press the submit button
Post-Conditions	User is registered.

Table 6.2

Test Case 03(Visit Web & App)

Test Case ID	Test Case 03: Visit Web & App
Actor	User
Pre-Conditions	• Internet Connection is required • User Must be Logged in
Summary	User visit Web & App to perform different operations
Events	• User visited the Website and Application • User sign-in to website and application • The User access the data • User Explore the different features of web & app
Post-Conditions	User successfully visit the Website and App

Table 6.3

Test Case 04(Search Location)

Test Case ID	Test Case 04: Search Location
Actor	User
Pre-Conditions	• Internet Connection is required

	• User Must be Logged in
Summary	User can search about different location
Events	• User visited the Website and Application • User sign-in to website and application • User view information about different locations
Post-Conditions	View information about different locations

Table 6.4

Test Case 05(View Hotels)

Test Case ID	Test Case 05: View Hotels
Actor	User
Pre-Conditions	• Internet Connection is required • User Must be Logged in
Summary	User can view details about different hotels
Events	• User visited the Website and Application • User sign-in to website and application • User view information about different hotels
Post-Conditions	View information about different hotels

Table 6.5

Test Case 06(Social Media Sharing)

Test Case ID	Test Case 06: Social Media Sharing
Actor	User
Pre-Conditions	• Internet Connection is required • User Must be Logged in
Summary	User can give review on different sites
Events	• User visited the Website and Application • User sign-in to website and application • User view home screen • User can upload images and share his suggestions

Post-Conditions	User can share images after logging in social media accounts
-----------------	--

Table 6.6

Test Case 07(Route Selection)

Test Case ID	Test Case 07: Route Selection
Actor	User
Pre-Conditions	• Internet Connection is required • User Must be Logged in
Summary	User can select routes to travel
Events	• User visited the Website and Application • User sign-in to website and application • User view Home screen • User can explore different routes • User can select route to travel
Post-Conditions	User can explore information about routes

Table 6.7

Test Case 08(Administrator Login)

Test Case ID	Test Case 08: Administrator Login
Actor	Administrator
Pre-Conditions	• Internet Connection is required • Administrator Must be Logged in
Summary	Administrator can login
Events	• Administrator visited the Website and Application • Administrator logged in successfully • Administrator view admin panel • Admin can view and modify the content of Web & App • Admin can delete the content of website
Post-Conditions	Administrator can maintain and control website and application

Table 6.8

Test Case 09(User Management)

Test Case ID	Test Case 09: User Management
Actor	Administrator
Pre-Conditions	• Internet Connection is required • Administrator Must be Logged in
Summary	Administrator can manage the user
Events	• Administrator visited the Website and Application • Administrator logged in successfully • Administrator view admin panel • Admin can view the user's data • Admin can delete, modify and update the content of website
Post-Conditions	• Admin can manage user's data • Admin can manage their accounts

Table 6.9

Test Case 10(Modifies Cities)

Test Case ID	Test Case 10: Modifies Cities
Actor	Administrator
Pre-Conditions	• Internet Connection is required • Administrator Must be Logged in
Summary	Administrator can modify the information of cities
Events	• Administrator visited the Website and Application • Administrator logged in successfully • Administrator view admin panel • Admin can view and modify and delete the content of cities
Post-Conditions	Administrator can update the information of cities successfully

Table 6.10

Test Case 11(Add Images)

Test Case ID	Test Case 11: Add Images
Actor	Administrator

Pre-Conditions	• Internet Connection is required • Administrator Must be Logged in
Summary	Administrator can modify and upload images
Events	• Administrator visited the Website and Application • Administrator logged in successfully • Administrator view admin panel • Administrator can view, modify, delete, and upload images of different visiting places. • Admin can save images
Post-Conditions	Administrator can modify and upload images of visiting places successfully

Table 6.11

Test Case 12(Agent Login)

Test Case ID	Test Case 12: Agent Login
Actor	Agent
Pre-Conditions	• Internet Connection is required • Agent Must be Logged in
Summary	Agent can log-in
Events	• Agent visited the Website and Application • Agent logged in successfully • Agent can view, modify, delete data • Agent can create a new package
Post-Conditions	• Agent can logged in successfully • Agent can modify and control content successfully uploaded by him.

Table 6.12

Test Case 13(Add Images)

Test Case ID	Test Case 13: Add Images
Actor	Agent

Pre-Conditions	• Internet Connection is required • Agent Must be Logged in
Summary	Agent can add images
Events	• Agent visited the Website and Application • Agent logged in successfully • Agent can view, delete, modify and uploads images from website and app
Post-Conditions	Agent can upload content and images successfully

Table 6.13

Test Case 14(Add Location)

Test Case ID	Test Case 13: Add Location
Actor	Agent
Pre-Conditions	• Internet Connection is required • Agent Must be Logged in
Summary	Agent can add places
Events	• Agent visited the Website and Application • Agent logged in successfully • Agent can add, delete, modify and view places.
Post-Conditions	Agent can upload and add new places on website and application successfully

Table 6.14

Test Case 15(Modify Hotels)

Test Case ID	Test Case 13: Modify Hotels
Actor	Agent
Pre-Conditions	• Internet Connection is required • Agent Must be Logged in
Summary	Agent can modify Hotels
Events	• Agent visited the Website and Application

	• Agent logged in successfully • Agent can modify and add information of hotels.
Post-Conditions	Agent can upload information about hotels successfully.

Table 6.15

6.7. Performance testing

Performance testing is a crucial step in ensuring that both the application and website of the Tour Management System deliver a seamless and satisfactory user experience. It involves evaluating their responsiveness, reliability, scalability, and resource utilization under various load conditions. This section describes the performance testing approaches and methodologies employed to assess and optimize the performance of the application and website.

6.8. Stress Testing

Stress testing assesses the application's stability and robustness by pushing it beyond its expected limits. It involves subjecting the application to excessive loads, such as high user concurrency or large data volumes, to evaluate its behavior under stress. This helps uncover potential weaknesses, performance degradation, and any system failures that may occur under extreme conditions.

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

The objective of this project is to develop a comprehensive tourism website and accompanying mobile application that serves as a one-stop destination for travelers seeking information, planning, and booking services for their trips. The website and app will provide a user-friendly interface and a range of features to enhance the travel experience. The Key Features of this Website and Application are: Destination Information, Trip Planning Tools, Booking Services, User Reviews and Recommendations, Social Integration, Responsive Design. Overall, the aim of this Project is to simplify the travel planning process, empower users with valuable information, and enhance their overall travel experience. By offering a range of features and services, the platform will become a go-to resource for travelers, inspiring exploration, and facilitating seamless trip planning and booking.

7.2. Achievements and Improvements

The tourism website and app have achieved significant milestones since their launch, continually improving the user experience and providing valuable services to travelers. Here are the achievements and improvements made over time:

- Enhanced User Interface
- Expanded Destination Coverage
- Advanced Search Functionality
- Integrated Booking System
- Improved Personalization
- Enhanced Review and Rating System
- Real-time Notifications
- Enhanced Customer Support

7.3. Critical Review

The purpose of this critical review is to assess the strengths and weaknesses of the Tourism website and app. As a potential user seeking information and assistance for travel, this review will highlight areas where the platform excels and areas where improvements are necessary to enhance the overall user experience. Overall, the Tourism website and app have several commendable features, including an attractive design, comprehensive content, and an efficient booking system.

7.4. Lessons Learnt

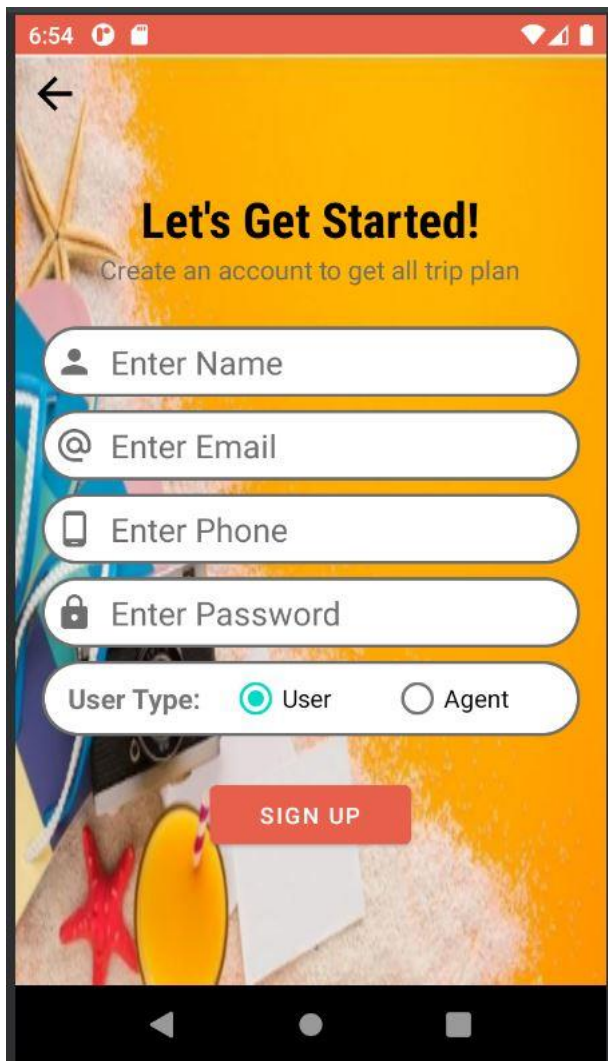
In making this project, lots of lessons were there to be learnt. At every stage of the development cycle, we got to learn something new like time management, scope management, team management and a lot in development. The things I learnt as a team manager are to keep cheering the team and be in contact. Organize small meetings and do some brainstorming together for solving the problems arose. Team building is also an essential part of project development as I have observed and also to focus on keep advancing and upgrading the system for better response get its name out and grow a piece of overall system.

7.5. Future Enhancements/Recommendations

To stay ahead and provide an exceptional user experience in the future, remember to stay abreast of emerging technologies, user expectations, and industry trends to adapt and enhance your tourism website and app continuously. Regularly gather user feedback and conduct usability testing to identify areas for improvement and deliver an outstanding travel experience.

Appendices

Appendix A: Sign Up



6:54

←

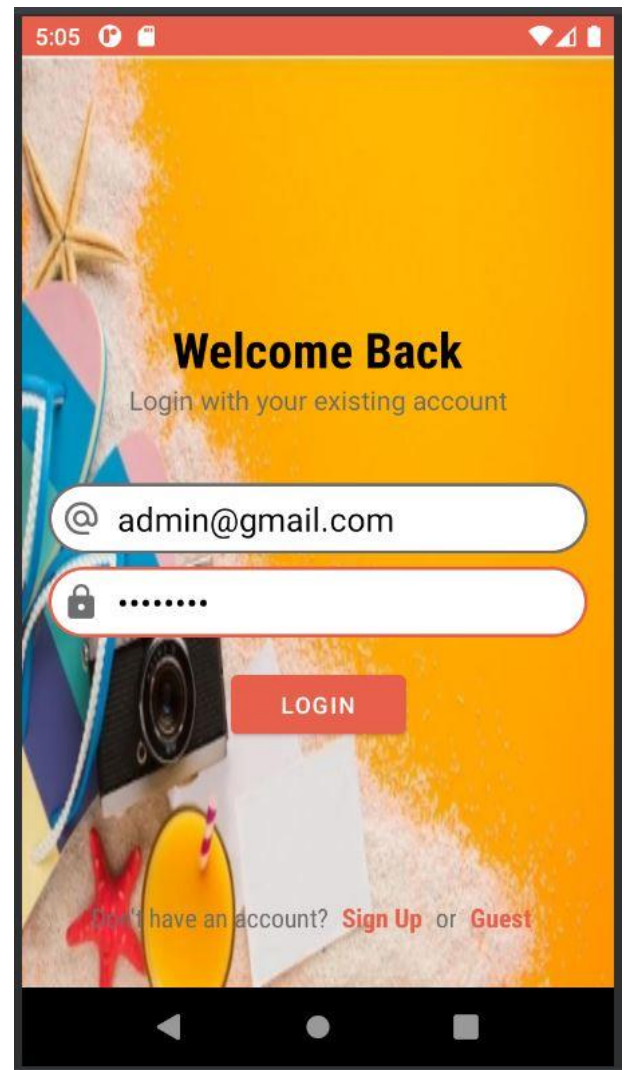
Let's Get Started!

Create an account to get all trip plan

User Type: ☒ User ☐ Agent

SIGN UP

The Sign Up screen features a vibrant orange background with a collage of travel-related images including a beach umbrella, a camera, and starfish. At the top left, there is a back arrow icon. The title 'Let's Get Started!' is prominently displayed in bold black text, followed by the subtitle 'Create an account to get all trip plan' in a smaller, lighter font. Below this, there are four white input fields with rounded corners, each containing a placeholder text: 'Enter Name', 'Enter Email', 'Enter Phone', and 'Enter Password'. The password field has a small lock icon on the left. Under the input fields, there is a 'User Type' section with two radio buttons: 'User' (which is selected) and 'Agent'. At the bottom center, there is a red button with the text 'SIGN UP' in white capital letters. The status bar at the very top shows the time as 6:54 and various system icons.



5:05

Welcome Back

Login with your existing account

LOGIN

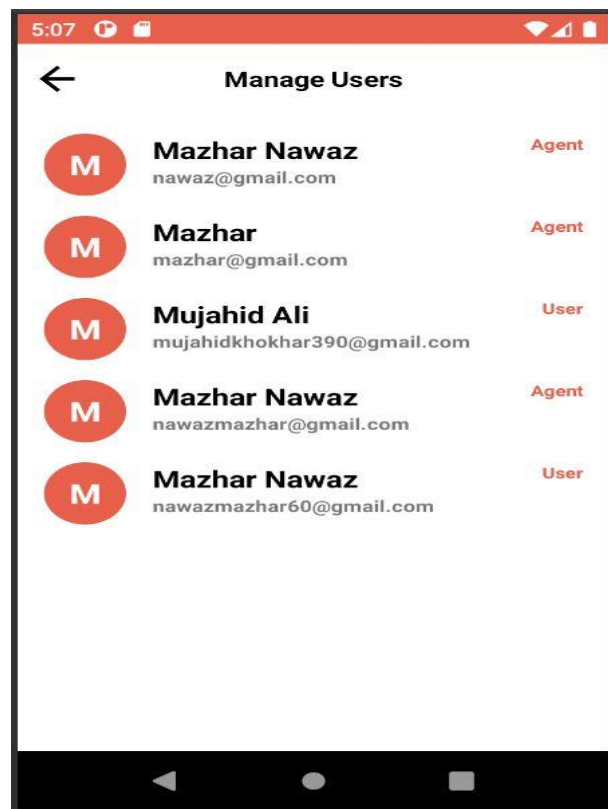
Don't have an account? [Sign Up](#) or [Guest](#)

The Login screen has the same orange background and travel-themed collage as the Sign Up screen. It features a back arrow icon at the top left. The title 'Welcome Back' is in bold black text, with the subtitle 'Login with your existing account' below it. There are two white input fields with rounded corners: the first contains the email '@ admin@gmail.com' and the second contains a masked password '.....'. A red button with the text 'LOGIN' in white capital letters is positioned below the password field. At the bottom, there is a link that says 'Don't have an account? Sign Up or Guest', where 'Sign Up' and 'Guest' are in red and 'or' is in black. The status bar at the top shows the time as 5:05 and system icons.

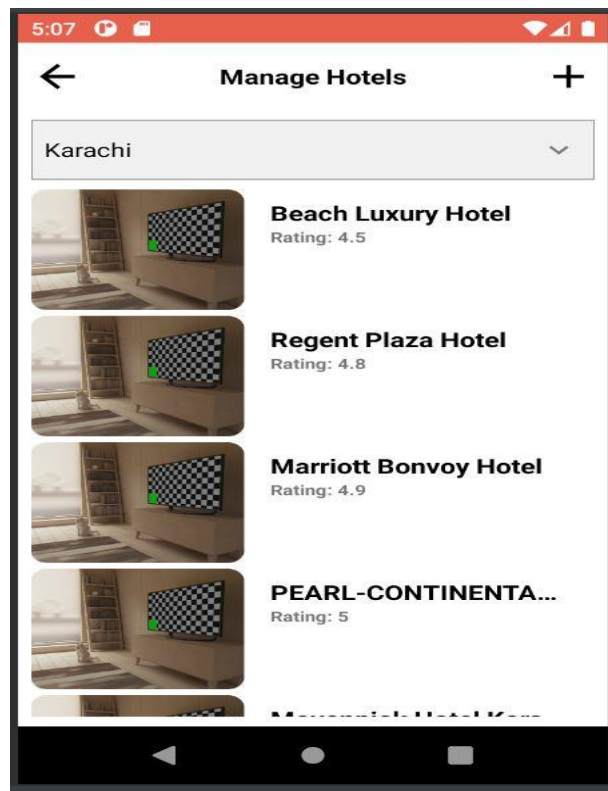
A.1. Admin Panel



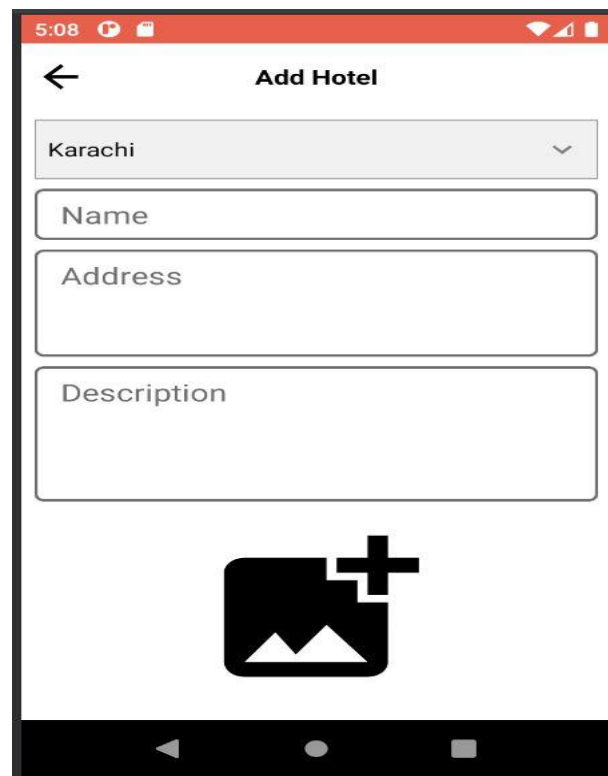
A.1.1. Manage Users



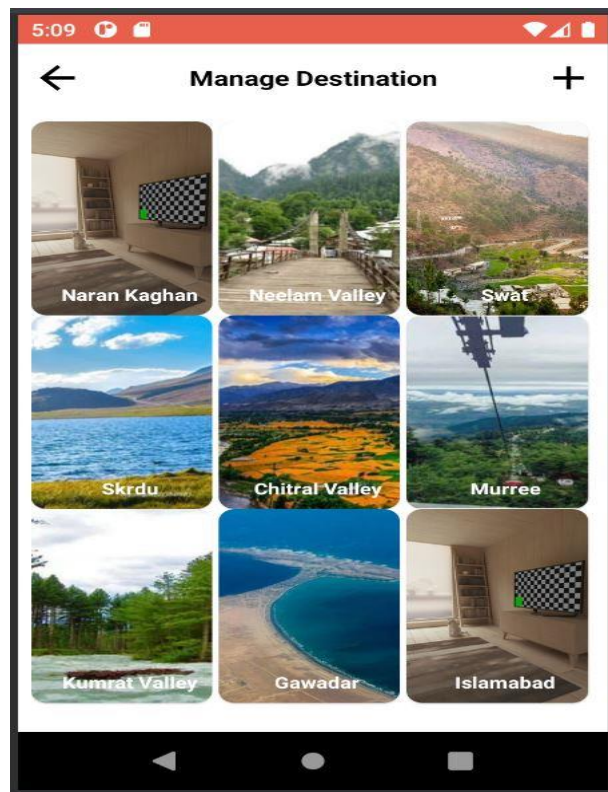
A.1.2. Manage Hotels



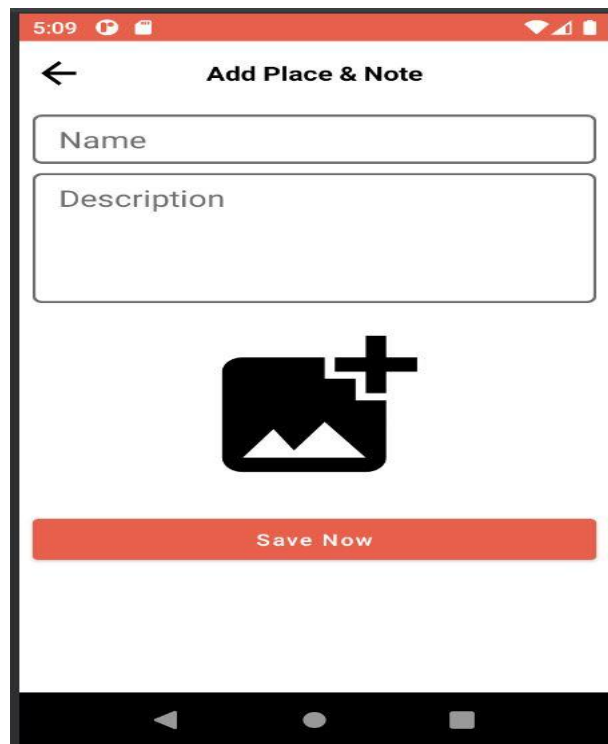
A.1.3. Add Hotels



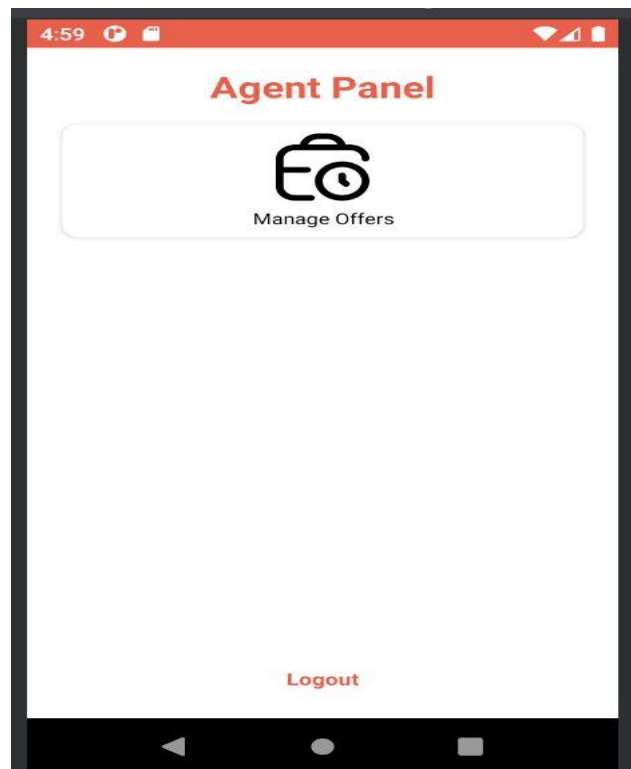
A.1.4. Manage Destination



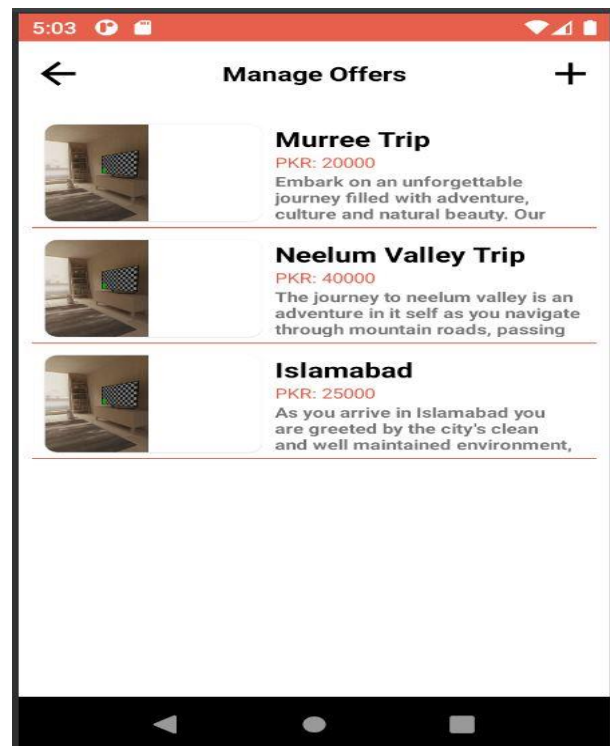
A.1.5. Add Hotel



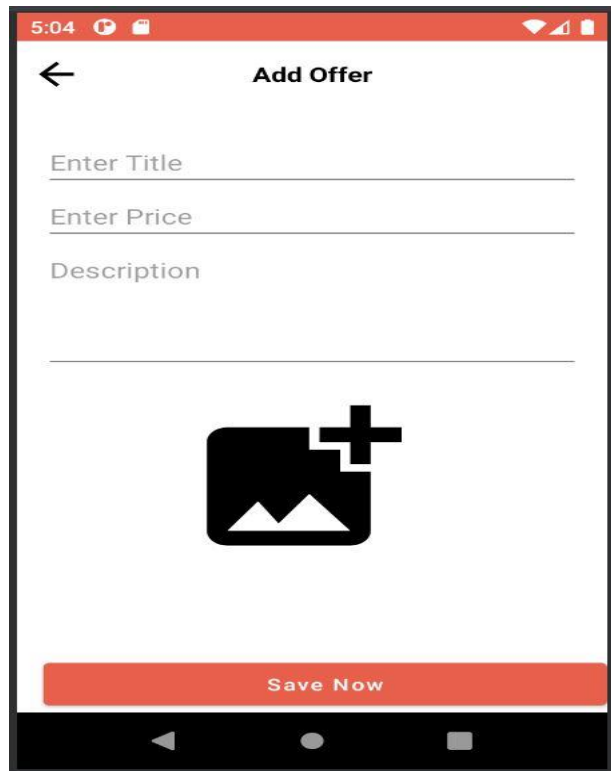
A.2. Agent Panel



A.2.1. Manage Offers

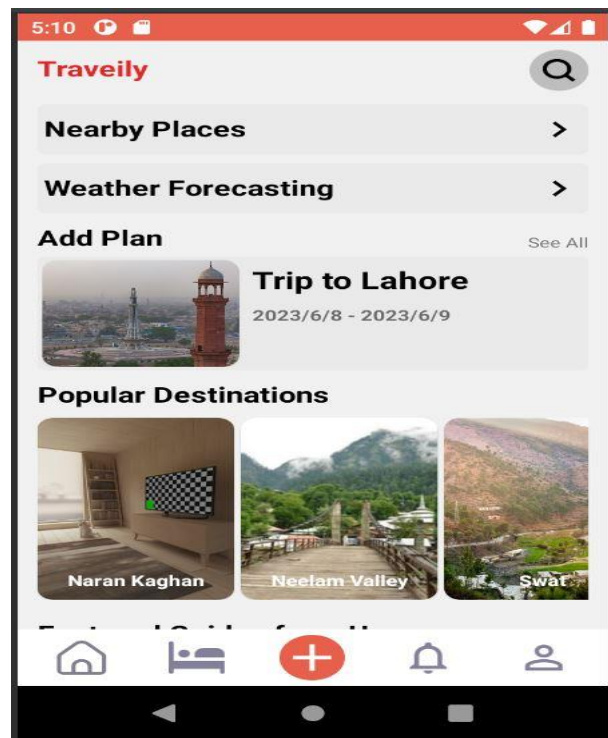


A.2.2. Add offer

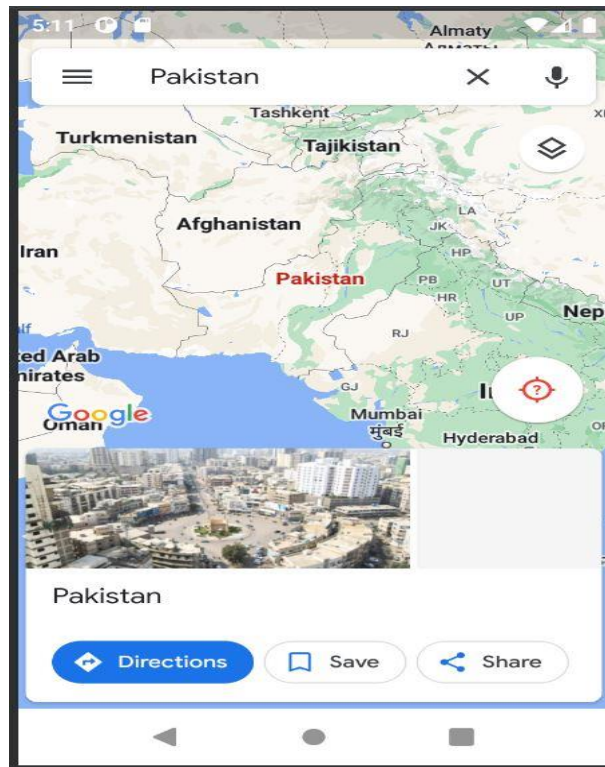


The screenshot shows the 'Add Offer' screen of the Traveily app. At the top, there is a red header bar with the time '5:04' and various status icons. Below the header, a back arrow is on the left, and the title 'Add Offer' is in the center. The form consists of three input fields: 'Enter Title', 'Enter Price', and 'Description'. Below these fields is a large black icon representing a photo with a plus sign, indicating where to add an image. At the bottom of the form is a red button labeled 'Save Now'. The app's navigation bar at the very bottom shows a back arrow, a home icon, a plus icon, and a square icon.

A.3. User Interface



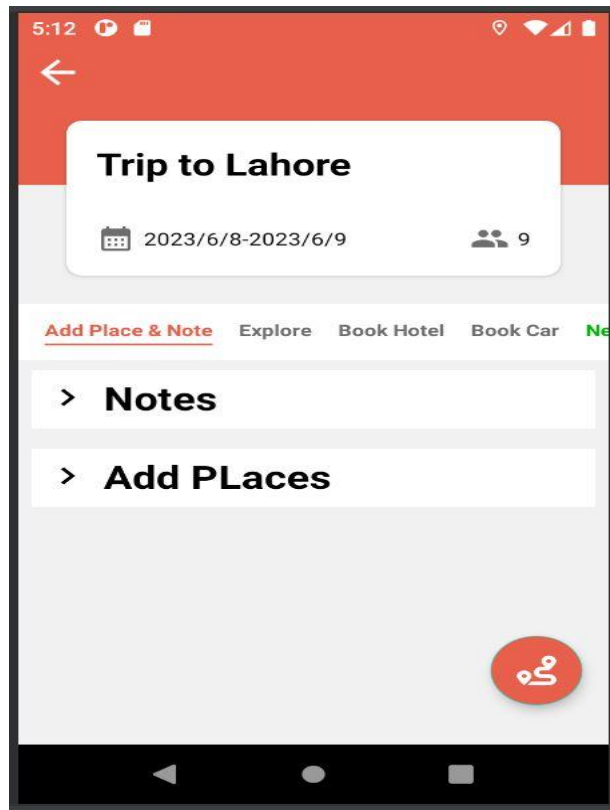
A.3.1. Nearby Places



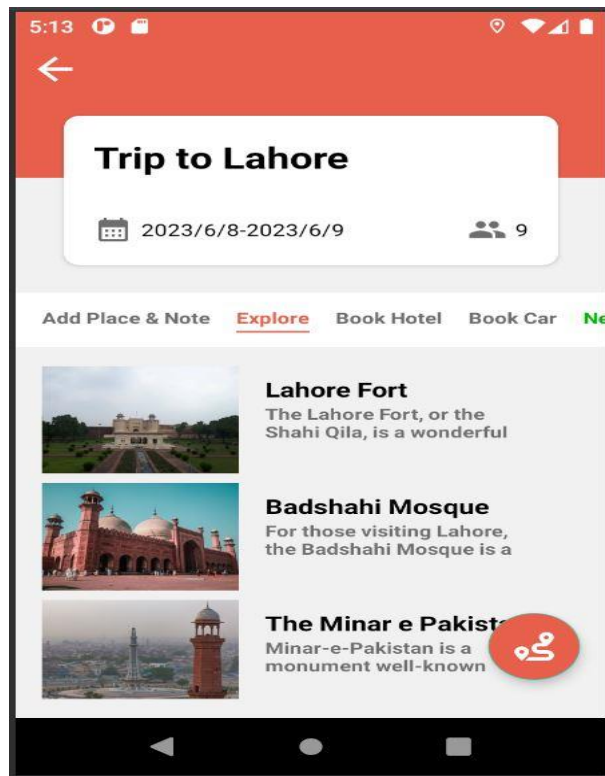
A.3.2. Weather Forecasting



A.3.3. Book a Trip



A.3.4. Explore Places to visit



A.3.5. Book Hotel

5:14

←

Trip to Lahore

2023/6/8-2023/6/9 9

Add Place & Note Explore **Book Hotel** Book Car Ne

Avari Hotel Lahore

Enter Email

Enter No of Guest 9

Room Type:

☐ Standard ☒ Family ☐ Private

A.3.6. Book Car

5:15

←

Trip to Lahore

2023/6/8-2023/6/9 9

Add Place & Note Explore Book Hotel **Book Car** Ne

Uber

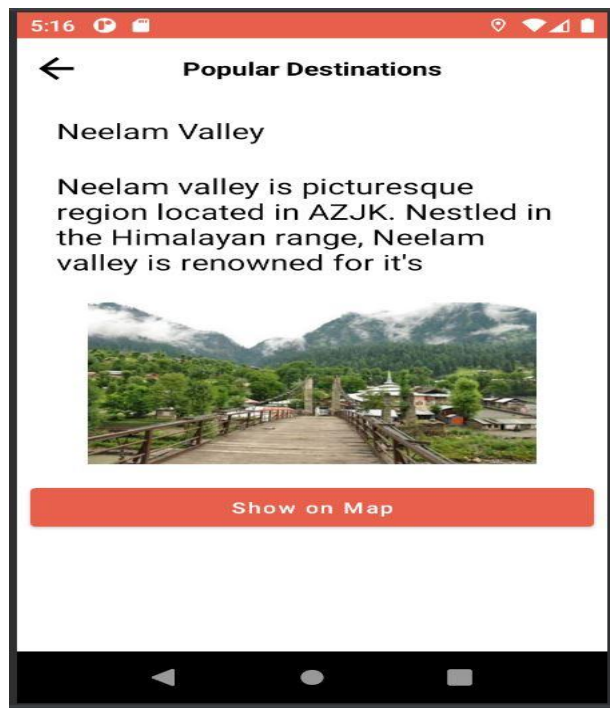
Enter Full Name

Enter Phone

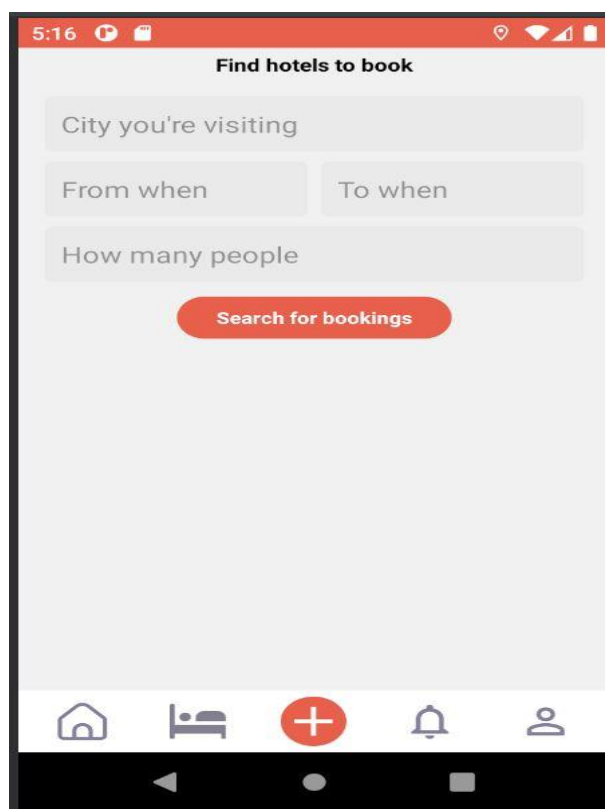
Enter Number of Passengers

Enter Address Where pick you up

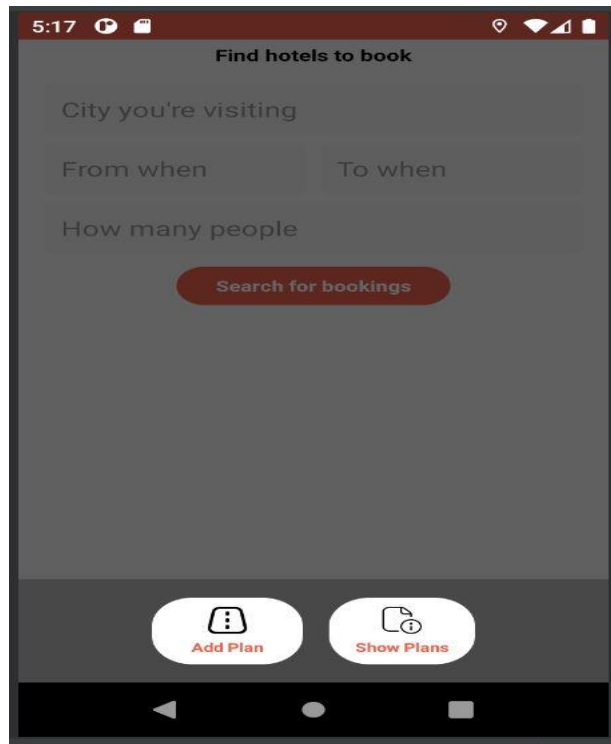
A.3.7. Popular Destination



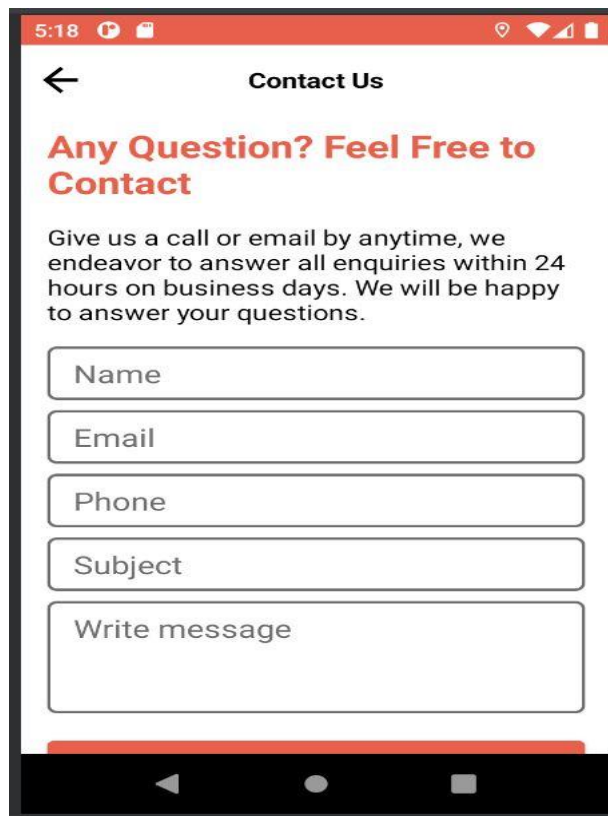
A.3.8. Search Hotels for booking



A.3.9. Add Or Show Plans



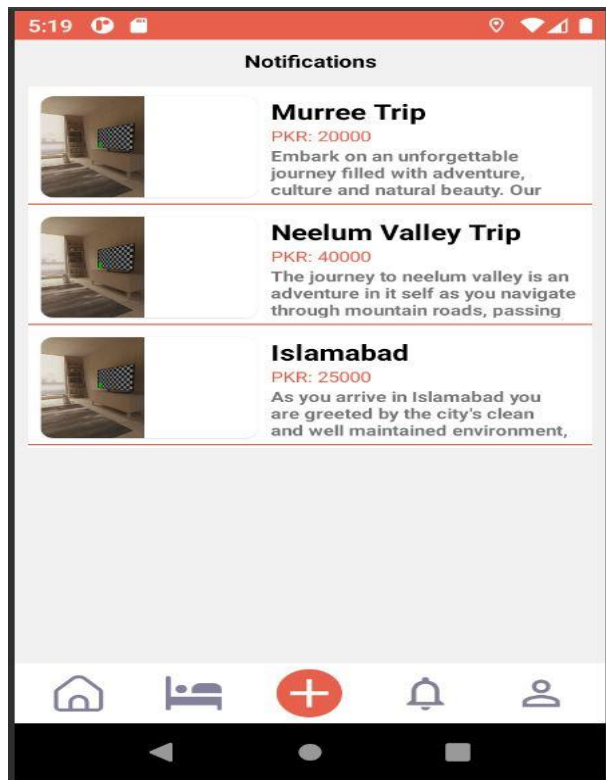
A.3.10. Contact Us Form



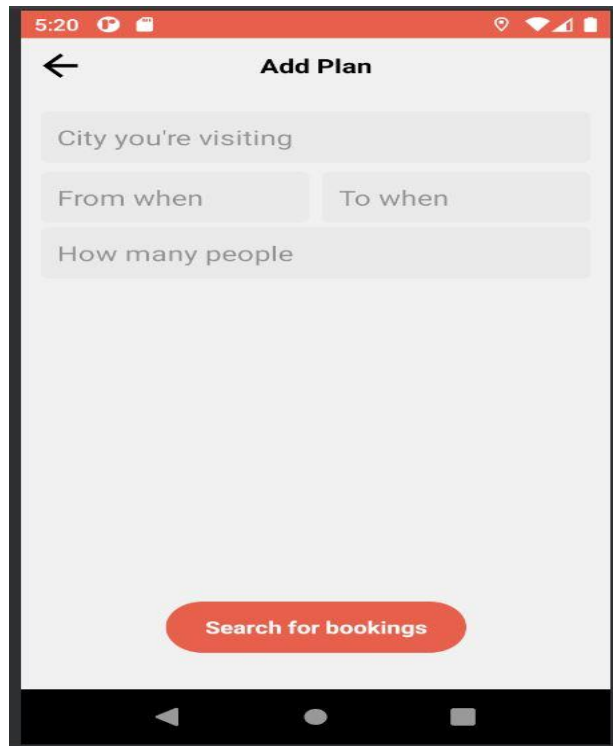
A.3.11. About Us



A.3.12. Notifications

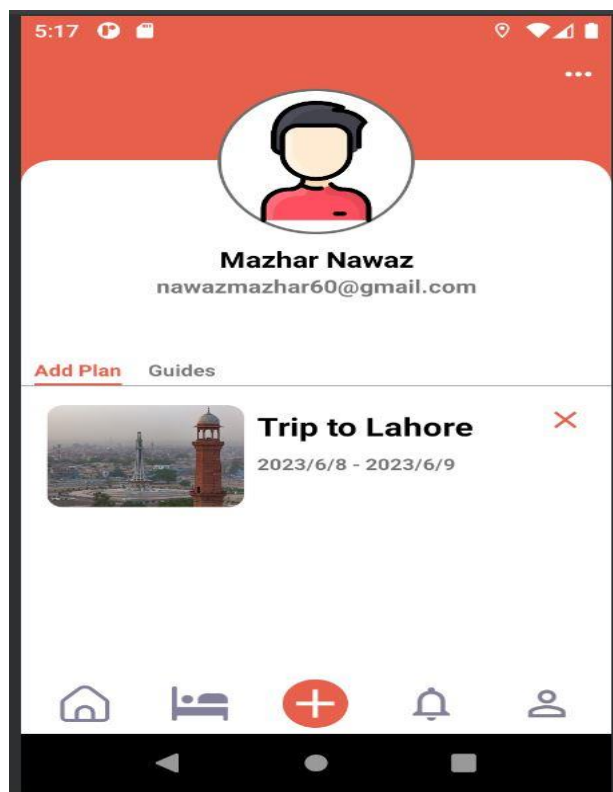


A.3.13. Add plan to visit

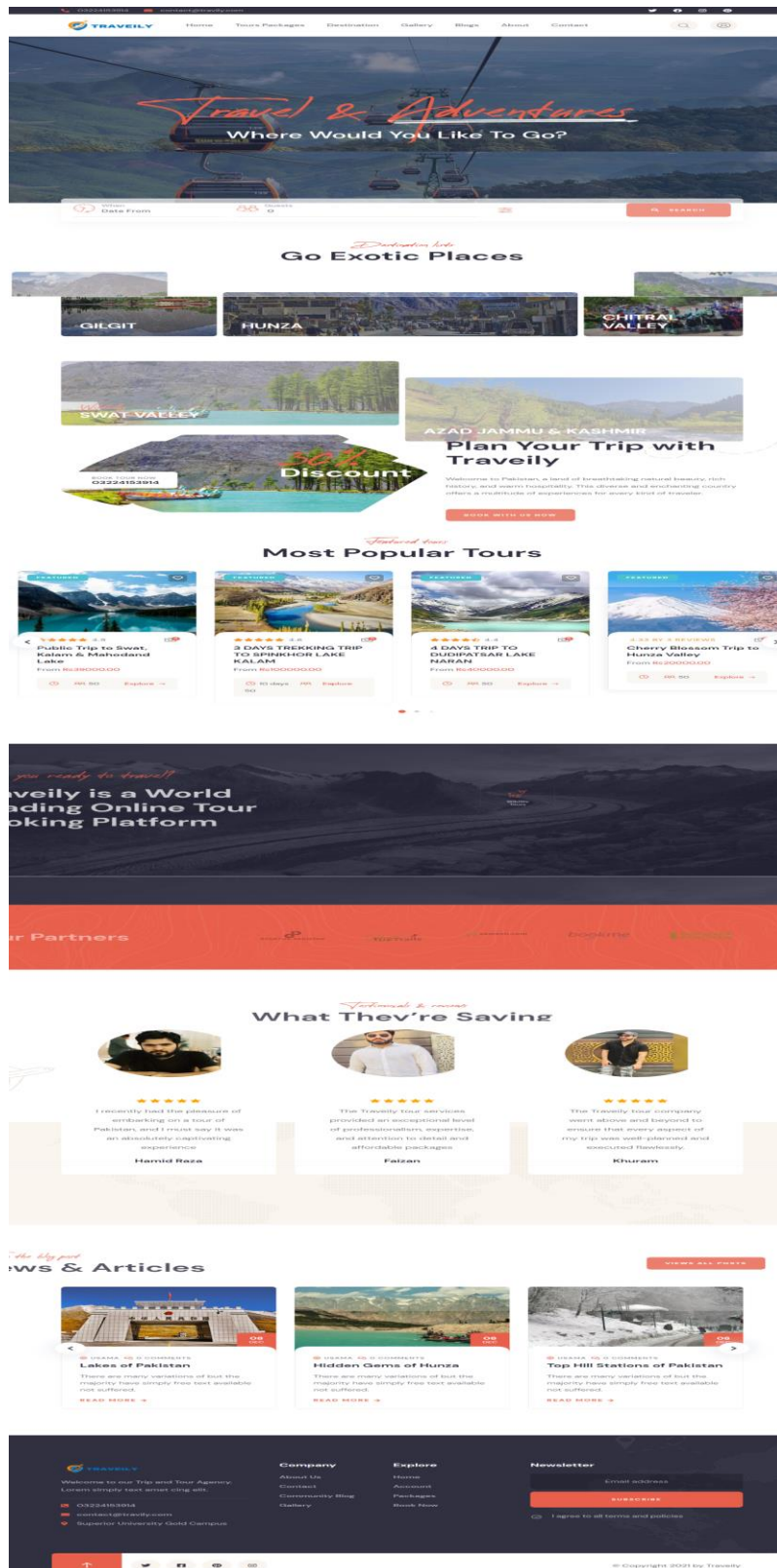


The screenshot shows a mobile application interface for adding a travel plan. At the top, there is a red header bar with a back arrow on the left and the title "Add Plan" in the center. Below the header, there are four input fields: "City you're visiting", "From when", "To when", and "How many people". At the bottom of the form, there is a red button labeled "Search for bookings". The status bar at the very top shows the time as 5:20 and various system icons.

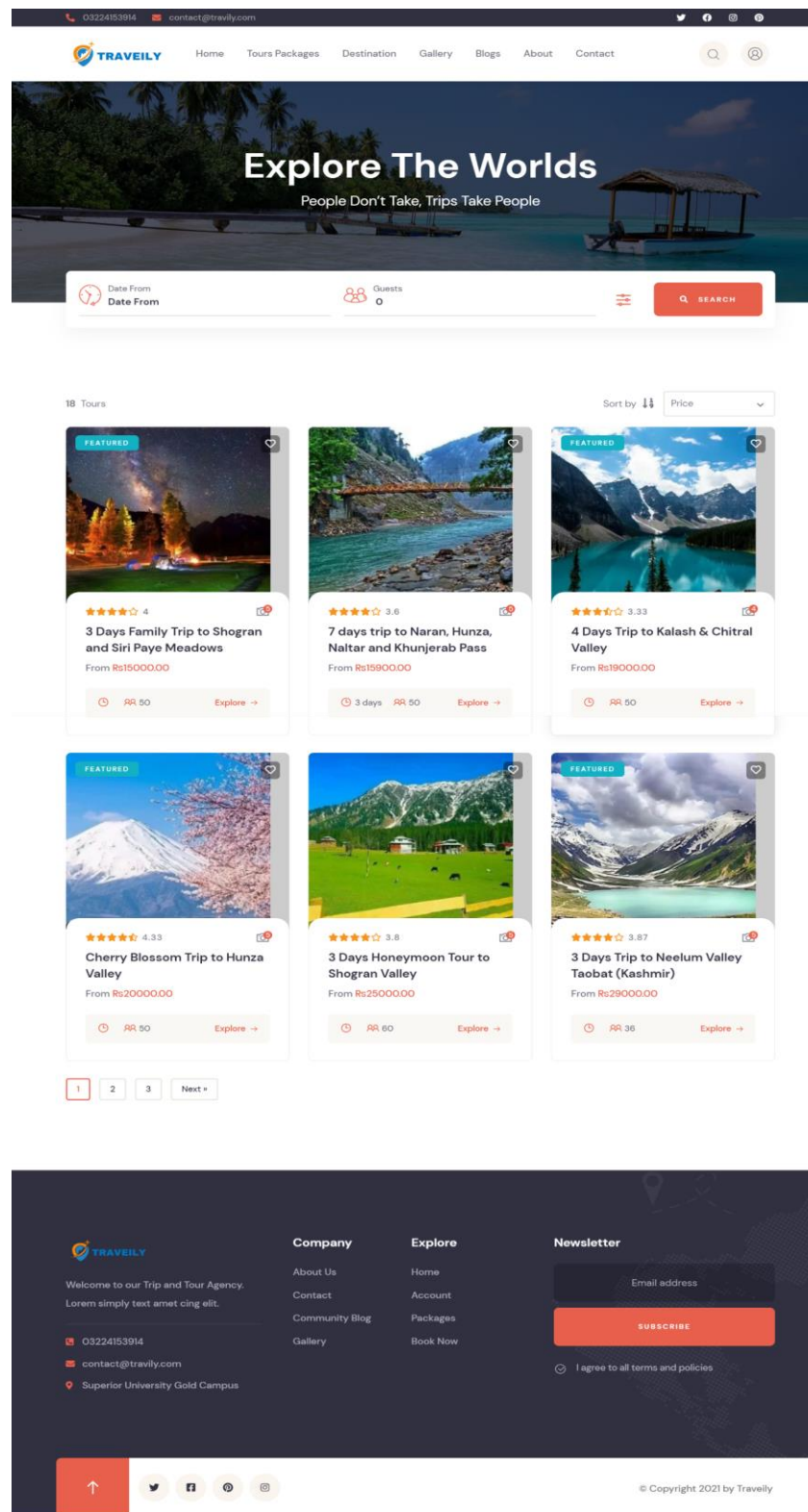
A.3.14. User Profile



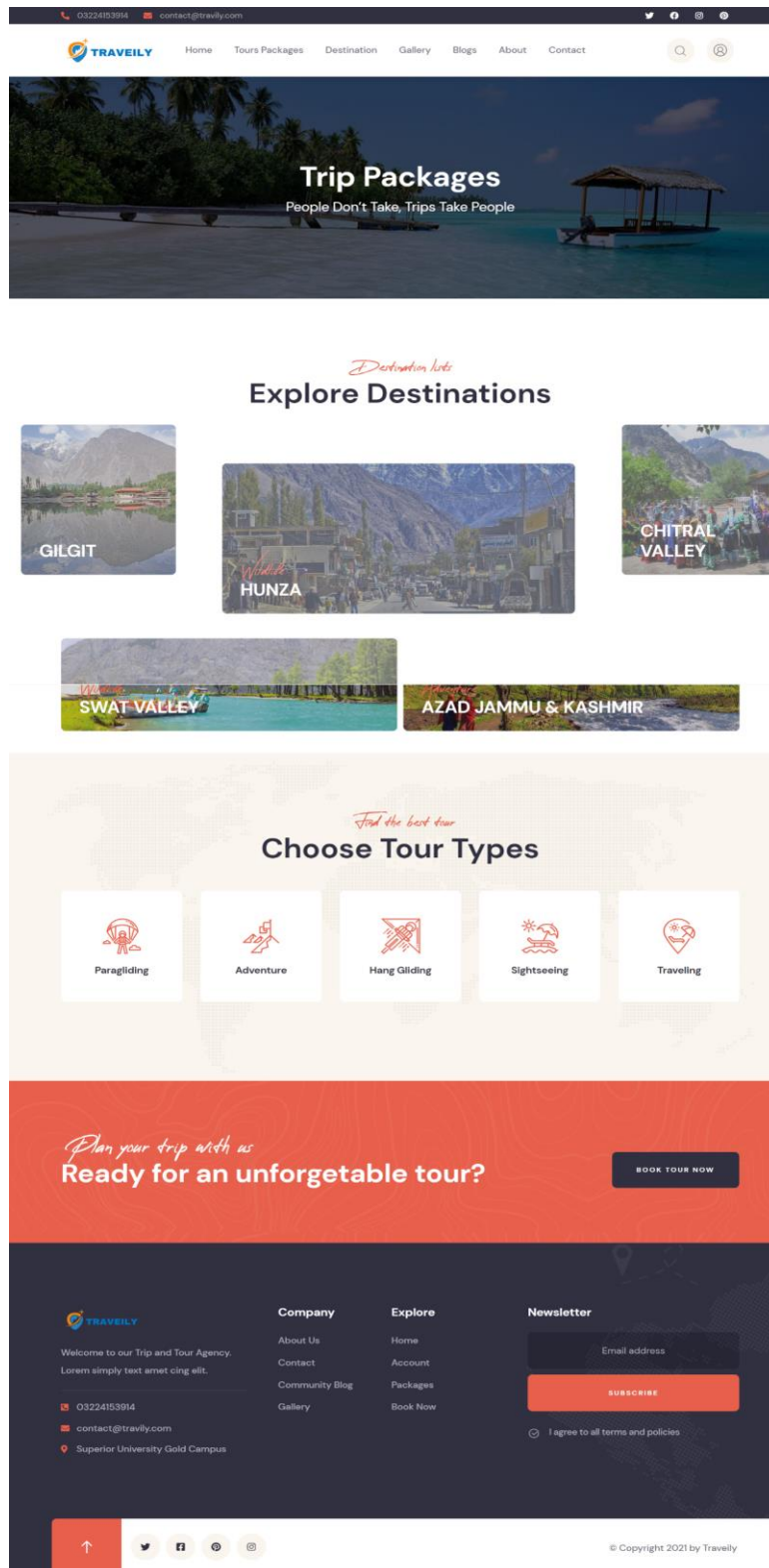
Appendix B: Home page



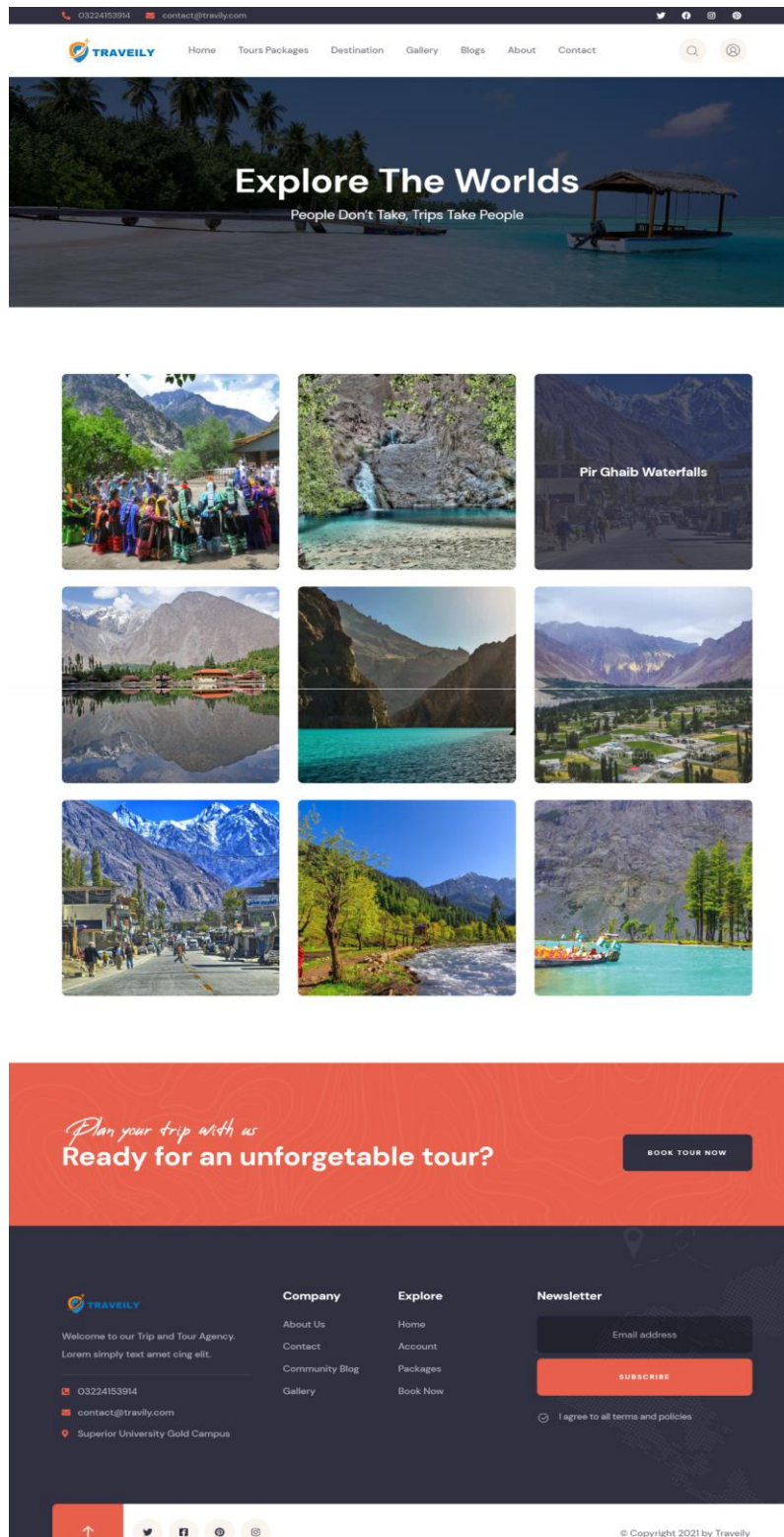
B.1. Tour Packages



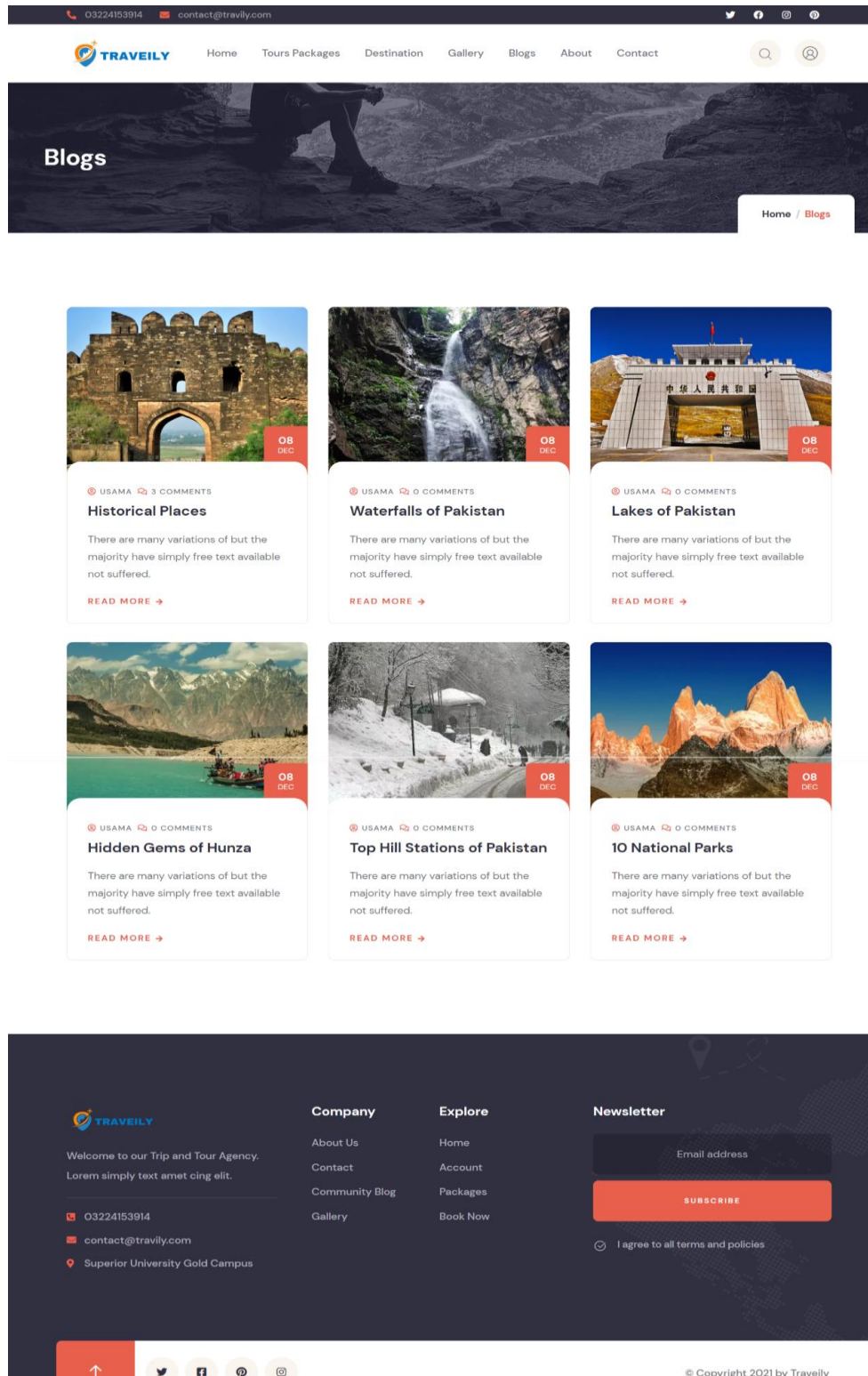
B.2. Destination



B.3. Gallery



B.4. Blogs



B.5. About Us



B.6. Contact Us

03224153914 contact@travily.com

Home Tours Packages Destination Gallery Blogs About Contact

Contact

Home / Contact

Talk with our team

Any Question? Feel Free to Contact

Give us a call or drop by anytime, we endeavor to answer all enquiries within 24 hours on business days. We will be happy to answer your questions.

Write message

SEND A MESSAGE

Address
Superior University Lahore,
Pakistan

Phone
03224153914

Email
contact@travily.com

Welcome to our Trip and Tour Agency.
Lorem simply text amet cing elit.

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contact@travily.com
Superior University Gold Campus

Company
About Us
Contact
Community Blog
Gallery

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Account
Packages
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Email address
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I agree to all terms and policies

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