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SEERO TAFRIAH

In partial fulfilment of the requirements for the degree of
Bachelor of Science in Information Technology

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Certificate



We accept the work contained in the report titled

“Seero Tafriah”

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DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

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Specially dedicated to
my beloved wife, brothers, mother, and father
(MEHERYAR KHAN)
my beloved grandmother, mother, and father
(ABDULLAH YASIR)

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We would like to thank everyone who contributed to the successful completion of this project. We would like to express our gratitude to my research supervisor, Mr. Zunnurain Hussain for his invaluable advice, guidance, and his enormous patience throughout the development of the research.

In addition, we would also like to express our gratitude to our loving parents and friends who had helped and encouraged us.

**MEHERYAR KHAN
ABDULLAH YASIR**

SEERO TAFRIAH

ABSTRACT

The tourist business, particularly in developing nations, is a catalyst for bringing socioeconomic well-being to the public. Before embarking on a vacation, we frequently see individuals searching the internet for top tourist spots in Pakistan, then searching websites for rooms to stay in that location, travel guides to manage their affairs, and finally, it's tough for them to organise their trip from departure to arrival. The aforementioned issues primarily affect both domestic and foreign travellers. Seero Tafriah is the only answer to the aforementioned issues since it addresses all of the key issues that have been discovered. Furthermore, by hosting visitors in their rooms and engaging with tourists as a local guide, it will assist the local community in growing. For this, we'll create a web application that allows users to explore the most popular tourist locations, as well as rooms from local hosts and local guides. It will also provide information on the current weather conditions in various locations, as well as the ability to hire a local tour guide for their journey to the preferred location. Our main objective is to create a stress-free experience for all foreign and local tourists, as well as to assist the local community in its efforts to improve. Our only objective is to create a stress-free experience for all foreign and local tourists, as well as to assist the local community in growing through means such as local hosts and guides.

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LIST OF SYMBOLS / ABBREVIATIONS

App	Web-Application
e.g.,	for example
ERD	Entity Relation Diagram
OTP	One Time Password

CHAPTER 1

INTRODUCTION

1.1 Background

Tourism is a precious resource, a national, regional, and local phenomena, as well as a viable economic venture. Tourism, in all of its manifestations, is an economic engine in developing nations. Because it generates income for society and provides jobs. Pakistan boasts one of the most diversified tourism options of any country on the planet. Pakistan awes adventurers and environment lovers with its Himalayan peaks, breathtaking valleys, lakes, sea coasts, deserts, magnificent terrain, and exquisite countryside. It is home to historical civilizations, empires, monuments, museums, religions, and cultural legacy.

Tourism is viewed as a powerful weapon for attracting foreign money and increasing the economy in many Asian countries, as it is in other developing countries across the world. It, among other things, draws investment, creates jobs, and improves handcraft sales. Pakistan has a lot of tourist potential due to its rich culture, geographical and biological variety, and history. Tourism has grown into a means of creating substantial financial rewards. Pakistan is rich in potential and boasts a diverse range of tourism attractions [1].

People regularly scan the internet for top tourist spots in Pakistan, then browse websites to locate a hotel to stay in that region, a travel guide to assist them organise their vacation, and ultimately, they struggle to plan their trip from departure to arrival with a solid plan. Both domestic and international travellers are affected by the aforementioned difficulties.

Because it contains remedies to the most regularly occurring and identified concerns, Seero Tafriah is the only solution to the problems stated. For this, we will

design a web application that will allow users to see the top tourist destinations, rooms available in those destinations, current weather in those locations, and book a local tour guide for their trip to the desired place. To solve the aforementioned concerns, we will create a web application that will allow visitors to pick their location, book a lodging there, and engage a travel guide or tour operator to help them complete their trip as efficiently as possible [2].

1.2 Problem Statements

Travelers found it difficult to navigate many websites to select a trip destination, room, top sightseeing places, and the, weather of the chosen destination. We are providing the solution through which we will provide them all the information in a single website through which users will be able to get information about destinations, top sightseeing places, rooms, weather, etc. They will also be able to hire a tour guide or tour operator for their trip. It will be our responsibility to give them accurate information about the destination to be safe from culture shock.

1.3 Aims and Objectives

The following are the thesis's goals:

- I. Tourists have an easier time arranging their trips to Pakistan.
- II. Visitors can obtain comprehensive information on a tourism destination.
- III. Tourists have an easier time finding information about rooms provided by locals.
- IV. Tourists can book an online trip guide to assist them in exploring the region.
- V. Visitors may view weather forecasts for any city.

1.4 Scope of Project

Seero Tafriah not only solves the concerns described, but it also allows the tourist to move with freedom and ease, it also benefits Pakistan's tourist industry by encouraging national and international visitors to visit the country. Seero Tafriah will provide travellers with an all-in-one travel solution, allowing them to learn about airport amenities and choose their destination, and accommodation. We will offer them weather forecasts for any city while they are exploring Pakistan's stunning beauty. We will also provide contact information for tour operators who can assist tourists and organize trips toward desired destinations. If you wish to explore certain destinations on your own, you'll need a good guide who can make your journey smooth and easy. We will also add an Airbnb-like feature where local people will be able to host their rooms to the tourists which will help them a lot to earn money and grow [3].

CHAPTER 2

LITERATURE REVIEW and SRS

2.1 Introduction

Tourism is a precious resource, a national, regional, and local phenomena, as well as a viable economic venture. Tourism, in all of its manifestations, is an economic engine in developing nations. Because it generates income for society and provides jobs. Pakistan boasts one of the most diversified tourism options of any country on the planet. Pakistan awes adventurers and environment lovers with its Himalayan peaks, breath taking valleys, lakes, sea coasts, deserts, magnificent terrain, and exquisite countryside. It is home to historical civilizations, empires, monuments, museums, religions, and cultural legacy.

Tourism is viewed as a powerful weapon for attracting foreign money and increasing the economy in many Asian countries, as it is in other developing countries across the world. It, among other things, draws investment, creates jobs, and improves handcraft sales. Pakistan has a lot of tourists potential due to its rich culture, geographical and biological variety, and history. Tourism has grown into a means of creating substantial financial rewards. Pakistan has a lot of potential and provides a diverse range of tourist attractions, and the Pakistani local population may benefit greatly from tourism-related online apps such as Seero Tafriah.

People frequently search the internet for top tourist destinations in Pakistan, then browse websites to find their desired hotels for their stay in that location, a travel guide to help them manage their trip, and finally, they struggle to plan their trip from departure to arrival with a proper plan. Both domestic and international travellers are affected by the aforementioned difficulties [4].

Because it contains remedies to the most regularly occurring and identified concerns, Seero Tafriah is the only solution to the problems stated. For this, we'll design a web application that allows users to see the top tourist destinations,

accommodations in those destinations, current weather in those places, and book a trip guide for their journey to the desired destination. To solve the aforementioned concerns, we will create a web application that will allow visitors to pick their location, book a hotel there, and engage a travel guide or tour operator to help them complete their trip as efficiently as possible.

2.2 User classes and characteristics

2.2.1 User

User will be able to roam Seero Tafriah as a guest and also by signing up and becoming a member of Seero Tafriah, the user will be able to get information about top tourist destinations in Pakistan, the user will be able to get detailed information about his destination, the user will be able to book rooms and be hosted like AIRBNB, the user will be able to see the weather forecast and the user will also be able to hire a tour guide or tour operator for his/her trip.

2.2.2 Host

A host will be able to upload the pictures, conditions, and services of his room to be hosted on the Seero Tafriah web application which will be accepted or declined by the admin to be uploaded to the Seero Tafriah application.

2.2.3 Admin

The admin would be able to manage the accounts of the user and hosts, the admin would be able to add/remove users and hosts depending upon the ratings given by tourists.

2.3 Operating Environment

The software details that will be used to develop the application are listed below in the table.

Table 2.1: Software Details for building the application

Operating System	Windows 10
Languages	JavaScript, React JS, Django, MySQL
Tools	PyCharm, Visual Studio Code, Postman, JMeter, Google Chrome, Mozilla Firefox

Table 2.1 contains all the information about the Operating System, Languages, and tools that will be used to develop the application.

2.4 Design and implementation Constraints

The design of the application would be kept user-friendly so that it is feasible for all types of users to easily use the app without creating any difficulty. The application would be responsive so that the interface remains the same for every type of smartphone and screen.

2.5 Assumptions and Dependencies

The app requires an active internet connection and won't be able to work without an internet connection and it also depends on the internet speed.

2.6 Use-Case Diagrams

The following figures show the use case diagrams of the project.

Figure 2.1: Complete system Use Case Diagram

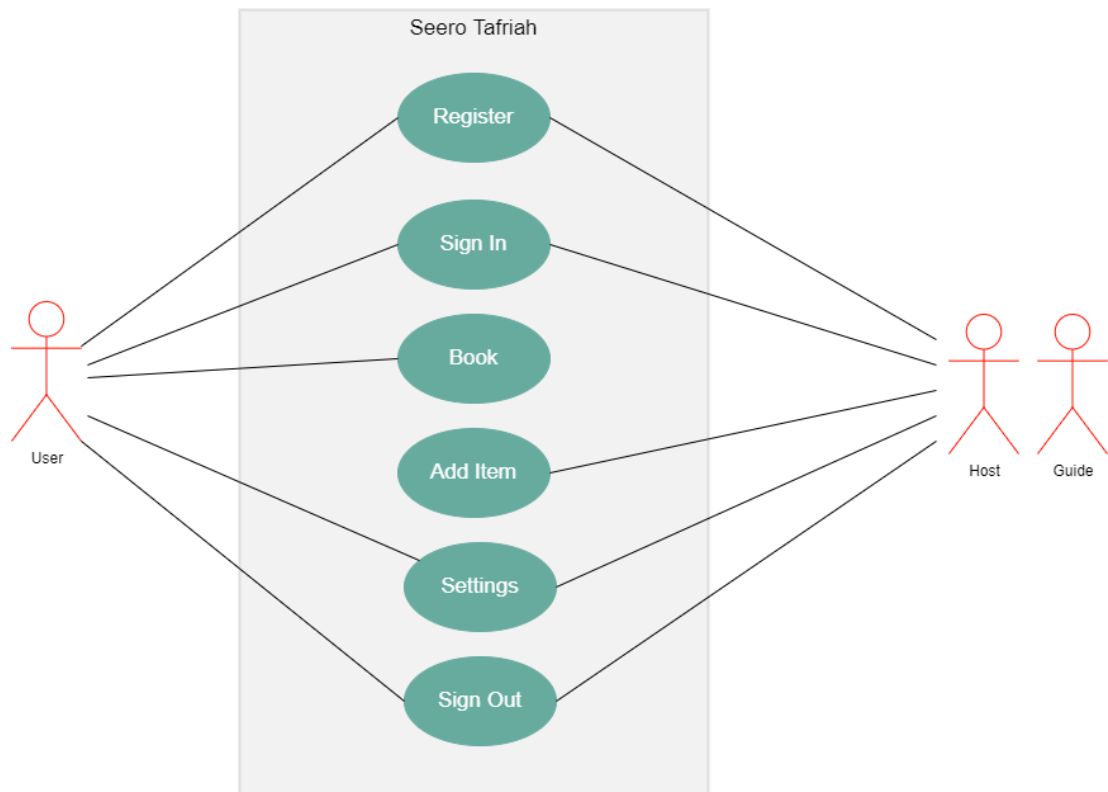


Figure 2.1 depicts the users, guides, and room hosts in basic detail and representation.

2.6.1 Registration Use Case

Figure 2.2: Registration Use Case Diagram

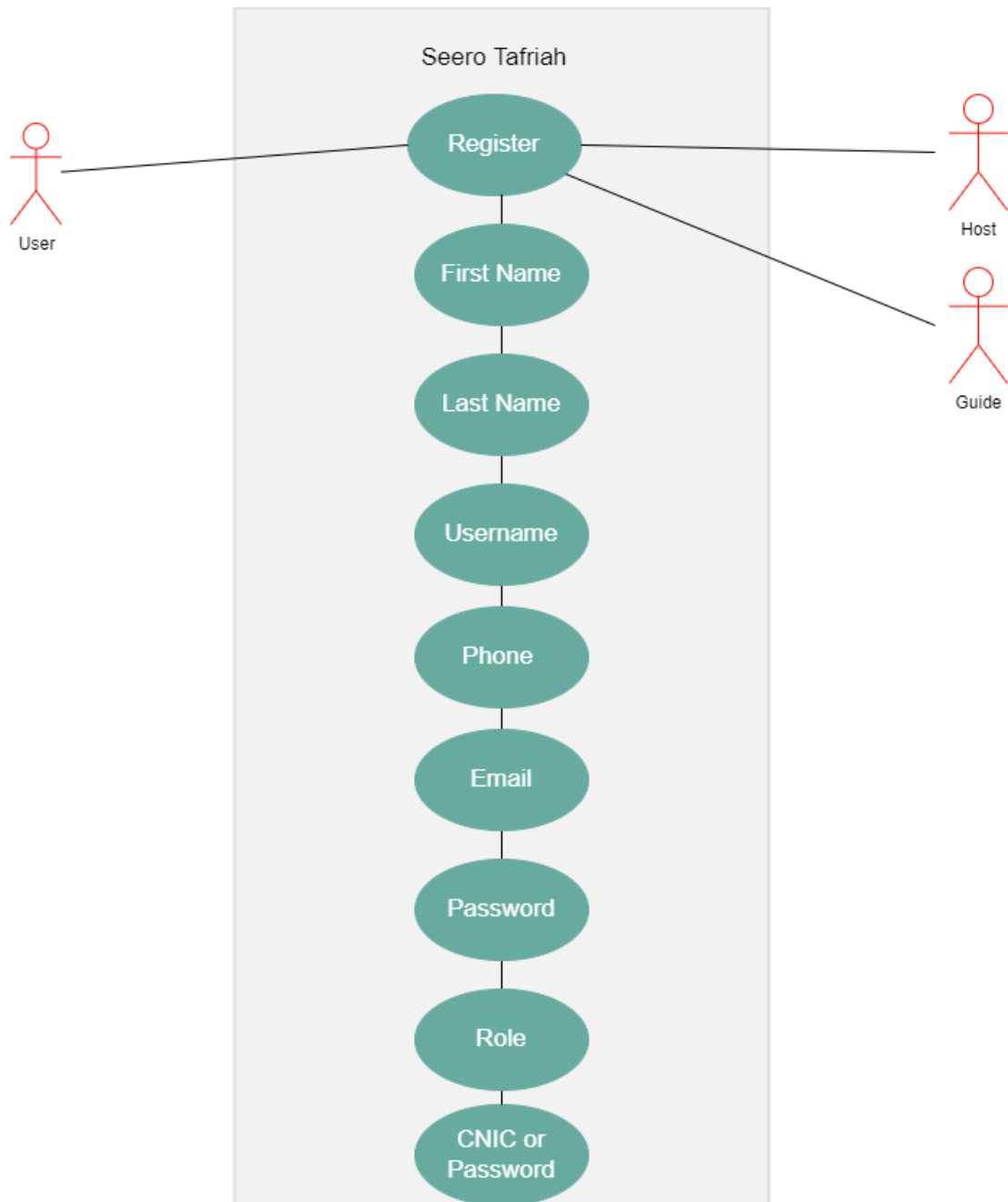


Figure 2.2 depicts how users, guides, and room hosts must enter their personal information to create accounts in order to use the programme.

2.6.2 Sign in Use Case

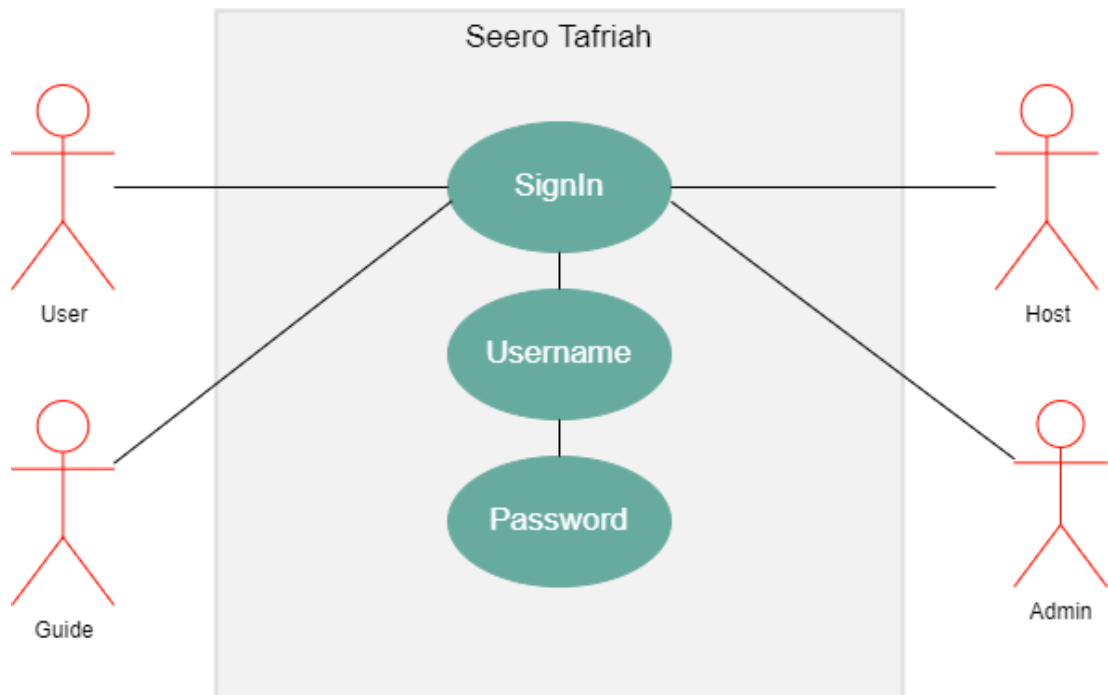


Figure 2.3: Sign in Use Case Diagram

After successfully creating their accounts, users, guides, and room hosts must login in to the programme using their username and password, as shown in Figure 2.3.

2.6.3 User booking Use Case

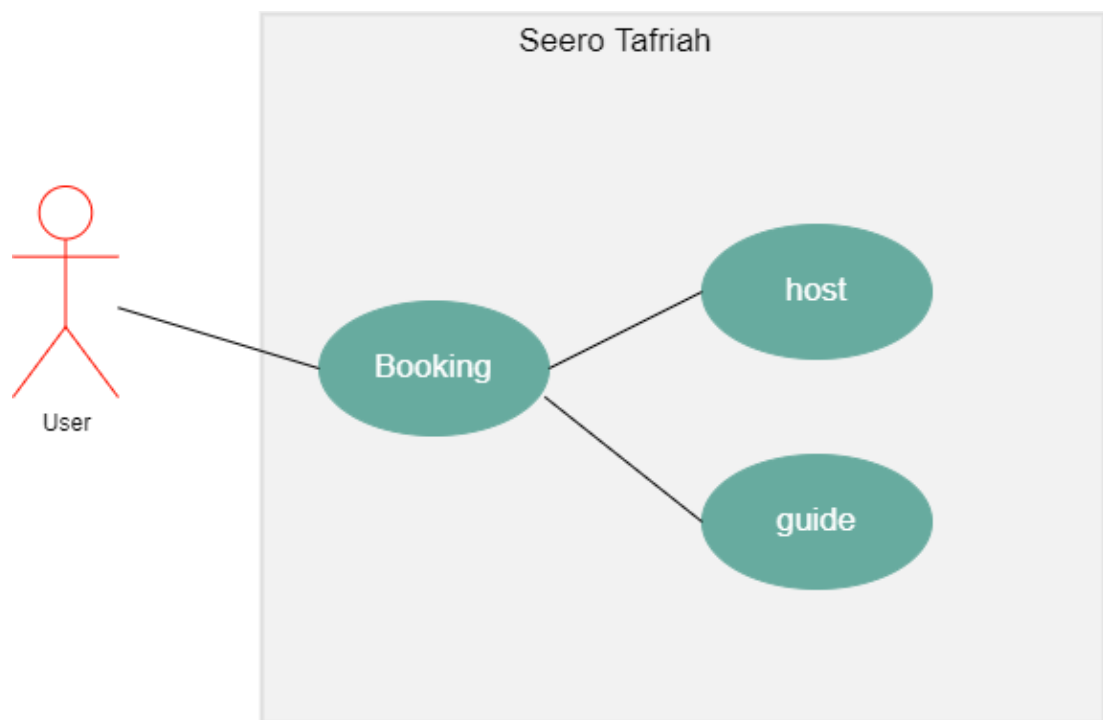


Figure 2.4: User Booking Use Case Diagram

Figure 2.5 depicts this after using the app to pick the trip guide, vacation host, or lodging.

2.6.4 Settings & Accept/Reject Use Case

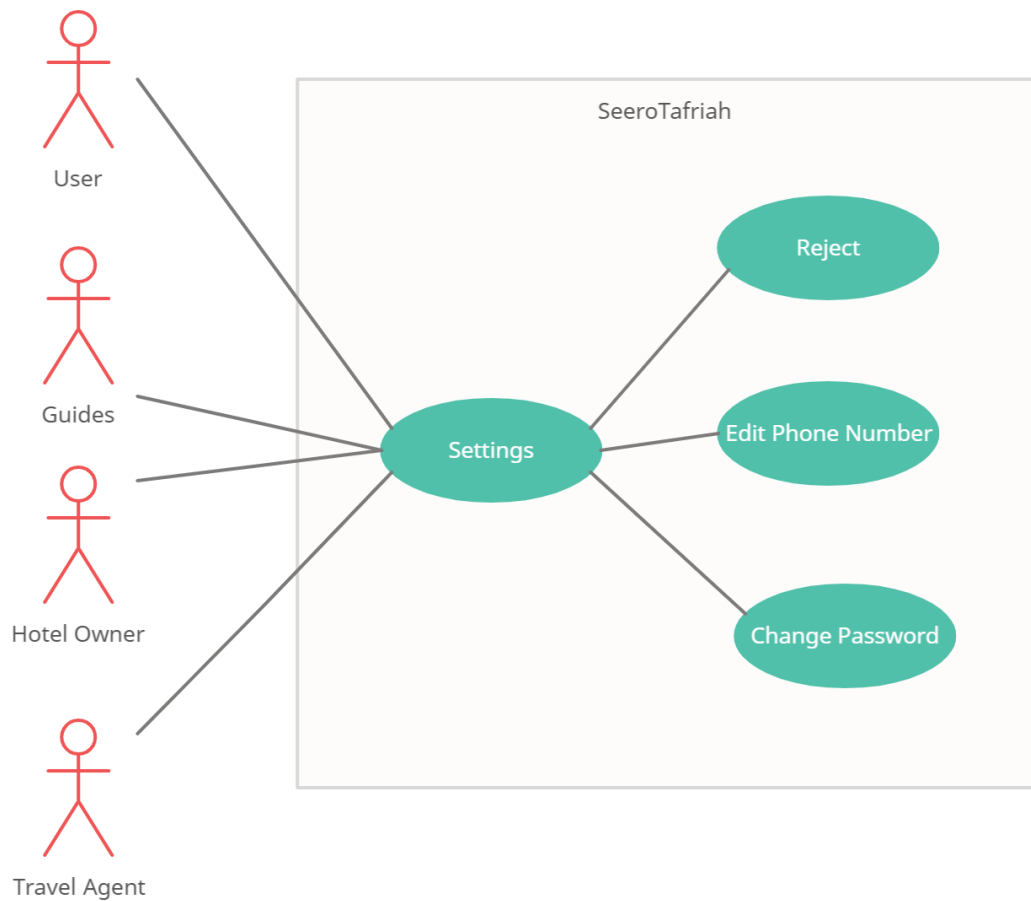


Figure 2.5: Settings & Accept/Reject Use Case Diagram

Figure 2.6 demonstrates that when a user chooses a room or a host on Seero Tafriah, they can accept or reject the offer. Users, guides, and room hosts can also change their personal information on Seero Tafriah.

2.6.5 Admin Use Case

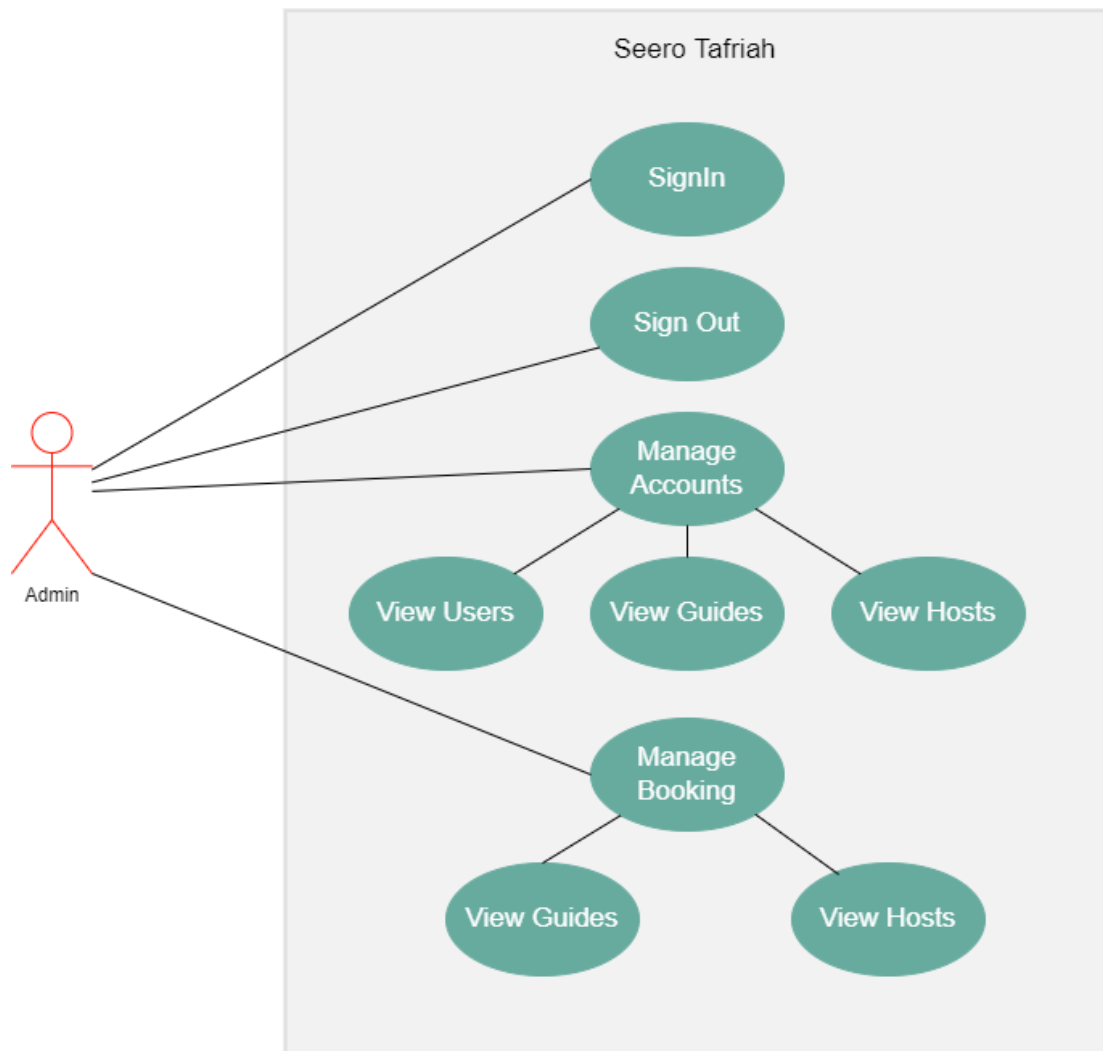


Figure 2.6: Admin Use Case Diagram

Figure 2.7 depicts the administrative rights and actions available in the Seero Tafriah application.

2.6.6 Sign out Use Case

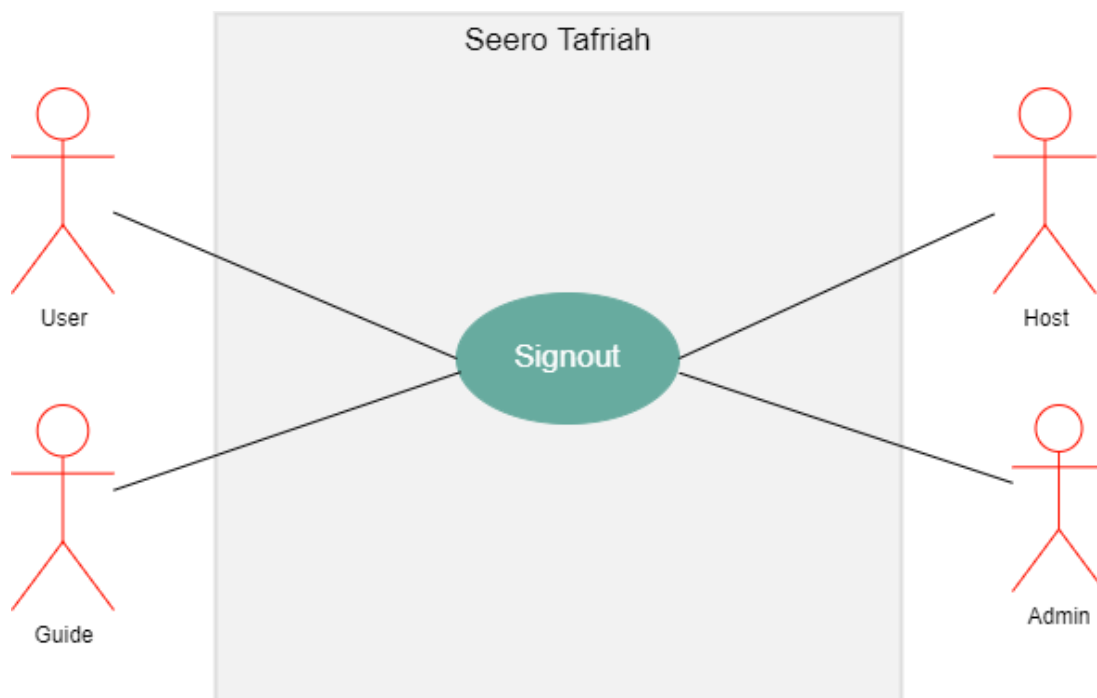


Figure 2.7: Sign out Type Use Case Diagram

Users, guides, and room hosts can sign out of the application at any time, or they can explore the program's various functions for future use, as shown in Figure 2.8.

2.7 Use-Case Description

Following are the use cases implemented in this project.

2.7.1 Registration Use Case

This use case contains the following parts.

Table 2.2: Registration Use Case Description

ID:	U1
Name:	Register
Actor:	Users, guides, and room hosts
Entry Conditions	Seero Tafriah must be opened with an active internet connection
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page 2. Select Registration 3. Users, guides, and room hosts will simply enter their information and create a unique username and password to create an account.
Alternative Flow	No alternative flow.
Exit Conditions:	Users, guides, and room hosts must complete the registration process to sign in to the app to use its services.

2.7.2 Sign in Use Case

This use case contains the following parts.

Table 2.3: Sign in Use Case Description

ID:	U2
Name:	Sign In
Actor:	Users, guides, and room hosts
Entry Conditions	U1.
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page 2. Click Sign In 3. Enter Username and Password 4. Sign In
Alternative Flow:	Users, guides, and room hosts may forget their username or password which can be reset by them through the reset password option.
Exit Conditions:	Users, guides, and room hosts successfully sign in the app.

2.7.3 Registration Use Case

This use case contains the following parts.

Table 2.4: Select Worker Use Case Description

ID:	U3
Name:	Registration
Actor:	Users, guides, and room hosts
Entry Conditions	Seero Tafriah must be opened with an active internet connection
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page. 2. Click on registration. 3. Enter personal details 4. Get registered.
Alternative Flow:	No alternative flow.
Exit Conditions:	Users, guides, and room hosts must provide correct email and passwords.

2.7.4 User Booking Use Case

This use case contains the following parts.

Table 2.5: Hire Worker Use Case Description

ID:	U4
Name:	Booking.
Actor:	User
Entry Conditions	U3.
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page. 2. Choose your destination 3. Click Rooms Host 4. Book
Alternative Flow:	No alternative flow.
Exit Conditions:	Users may search for the destination or go back to the previous screen to change the destination.

2.7.5 Setting & Accept/Reject Job Use Case

This use case contains the following parts.

Table 2.6: Job Offer Use Case Description

ID:	U5
Name:	Settings & Accept / Reject
Actor:	Users, guide, and room hosts
Entry Conditions	U2.
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page. 2. Click Sign In. 3. Enter Username and Password. 4. Sign In. 5. Select Offers 6. Host or guide will accept the job request if he is interested in it.
Alternative Flow:	No alternative flow.
Exit Conditions:	The host or local guide must accept or reject the job.

2.7.6 Admin Use Case

This use case contains the following parts.

Table 2.7: Settings Use Case Description

ID:	U6
Name:	Admin Panel
Actor:	Admin
Entry Conditions	U2.
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page. 2. Click Sign In. 3. Enter Username and Password. 4. Sign In. 5. Manage Accounts 6. Click on desired actions 7. Perform the desired actions
Alternative Flow:	No alternative flow.
Exit Conditions:	None.

2.7.7 Sign out Use Case

This use case contains the following parts.

Table 2.8: Sign out Use Case Description

ID:	U7
Name:	Sign out
Actor:	Users, guides and room hosts
Entry Conditions	U2.
Basic Flow or Happy Path:	<ol style="list-style-type: none"> 1. Welcome to Home Page. 2. Click Sign In. 3. Enter Username and Password. 4. Sign In. 5. Welcome to Dashboard. 6. User or guide, and room host log out whenever they wish to.
Alternative Flow:	Users can explore other services for future use.
Exit Conditions:	None.

2.8 Non-functional requirements

The following subsections give details about the non-functional requirements of the project app.

2.8.1 Performance Requirements

The web application shall perform all the required tasks assigned correctly and efficiently. The response time of the application depends on device hardware and internet speed. Without an internet connection user, guide, and room host won't be able to use the application services.

2.8.2 Software Quality Attributes

i) Availability

The application would be available 24/7 to the user and worker having a stable internet connection.

ii) Flexibility

The application is flexible for all types of web browsers.

iii) Usability

The web application would be user-friendly for the user and worker and could be easily used and understood by the user. The web-app would have an interactive interface that would attract the user.

iv) Maintainability

The web application would be easy to maintain and if there is any report of bugs/errors they can be removed, and new functionalities and services can be added in the future with the help of the upgrade of application [6].

2.9 System Requirements Chart

ID	Type	Priority	Source	Contained in Use Case	Description
FR1	Functional	High	Users, guides, and room hosts	Register (U1)	The use case design is to register new user and worker.
FR2	Functional	High	Users, guides, and room hosts	Sign in (U2)	The use case design is to sign in the user, guide, and room host.
FR3	Functional	High	User	Select Room or guide (U3)	The use case design is for selecting the type of room or guide.
FR4	Functional	High	User	Hire or Guide (U4)	The use case design is for searching the guide selected by the user
FR5	Functional	High	Local Guide and room host	Accept/Reject (U5)	The use case design is for the room host to accept or reject the offer.
FR6	Functional	High	Users, guides, and room hosts	Settings (U6)	The use case design is for a settings menu where the user, guide, and room host can edit data and password
FR7	Functional	High	Users, guides and room hosts	Sign Out (U7)	The use case design is to sign out user, guide, and room host from the app.
NFR1	Non-Functional	High	Users, guides and room hosts	N/A	Performance Requirement

NFR2	Non-Functional	High	Users, guides and room hosts	N/A	Availability
NFR3	Non-Functional	High	Users, guides and room hosts	N/A	Flexibility
NFR4	Non-Functional	High	Users, guides and room hosts	N/A	Usability
NFR5	Non-Functional	High	Users, guides and room hosts	N/A	Maintainability

CHAPTER 3

DESIGN AND METHODOLOGY

3.1 Introduction

In this chapter, we'll look at the many UML diagram models that may be used to depict software solutions, application architecture, system behaviour, and business processes in our project. The list of diagrams is as follows:

1. Sequence Diagram
2. Class Diagram
3. Domain Model Diagram
4. Entity Relation Diagram (ERD)

We will be able to graphically portray a system, along with its primary players, roles, actions, and classes, using these diagrams to better understand, manage, and document information about the system.

3.2 Sequence Diagram

A sequence diagram depicts item interactions in chronological order. It represents the scenario's objects and the flow of messages exchanged between them in order to carry out the scenario's functionality. The sequence diagrams for our project are shown in the subsections below.

3.2.1 Registration Sequence Diagram

Figure 3.1 shows the Registration Sequence Diagram through which the user and workers can create their accounts to use the app if they are new and don't have an account already.

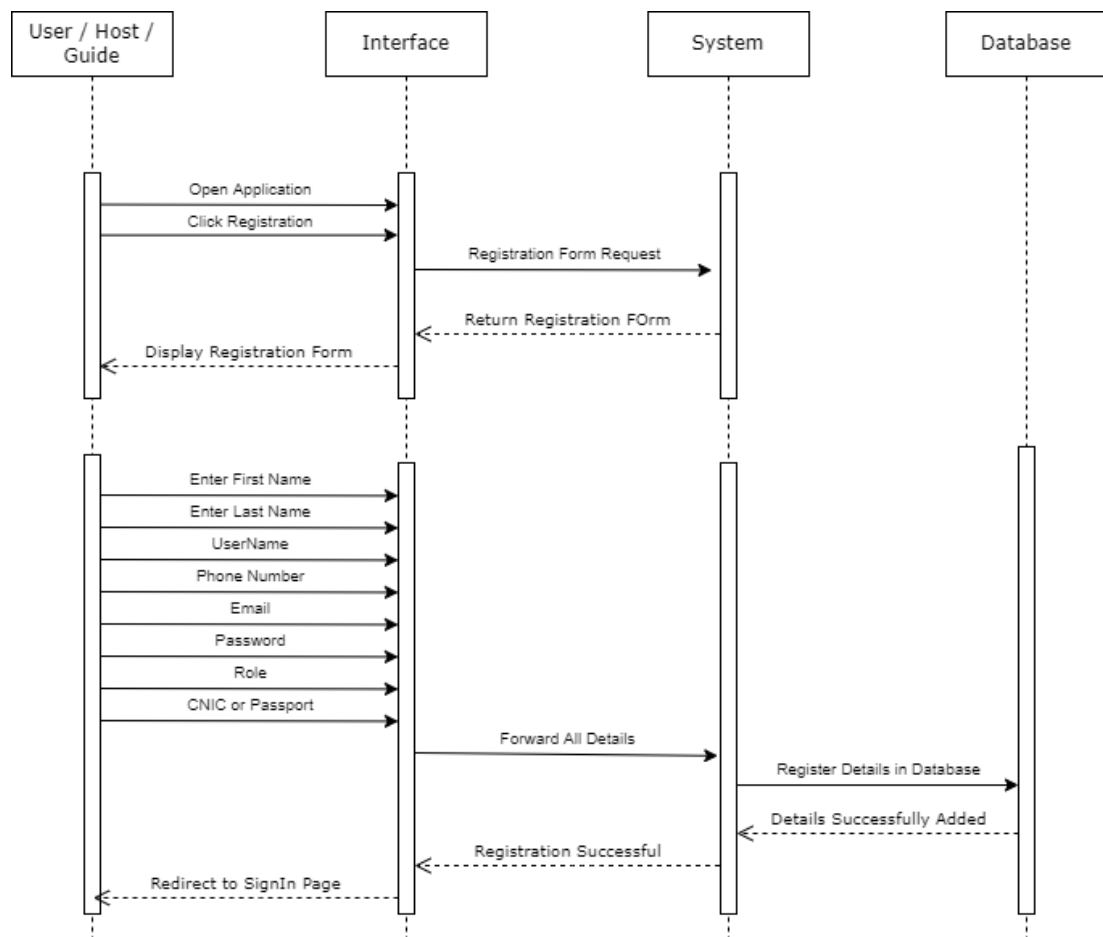


Figure 3.1: Registration Sequence Diagram

3.2.2 Sign in Sequence Diagram

After the user, guide and room host has successfully completed registration and created an account, they will be able to sign in the app. Figure 3.2 shows the sequence diagram for the user and worker to sign in the application.

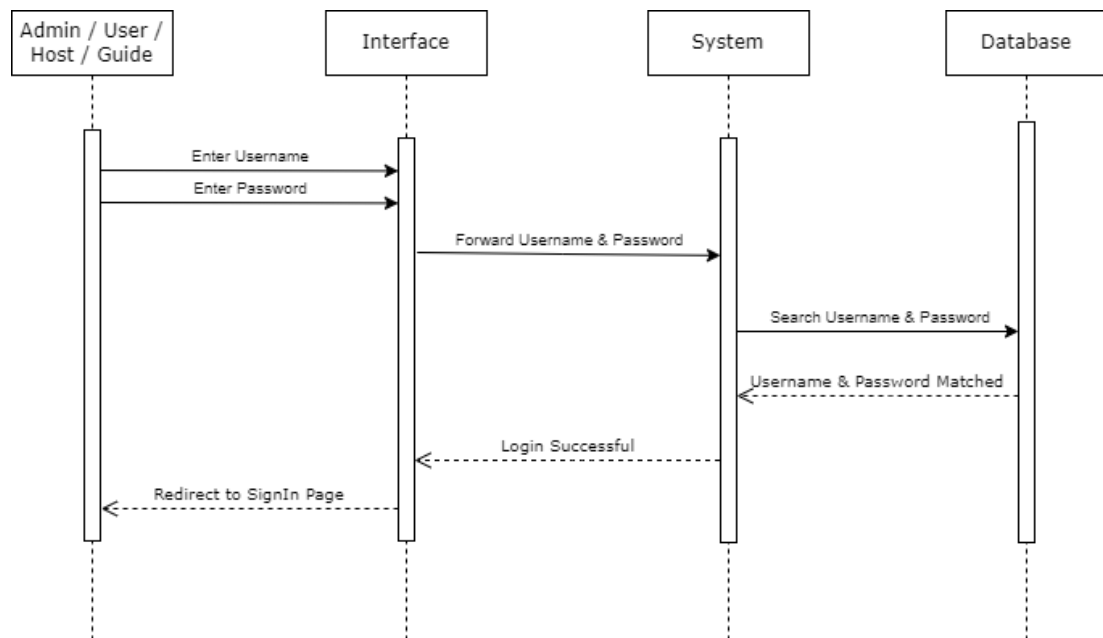


Figure 3.2: Sign In Sequence Diagram

3.2.3 Hire guide Sequence Diagram

Figure 3.3 shows the booking room or hire travel guide Sequence Diagram. Once the user has successfully signed into the application it will allow them to use the app to book room or to hire the desired host for their trip.

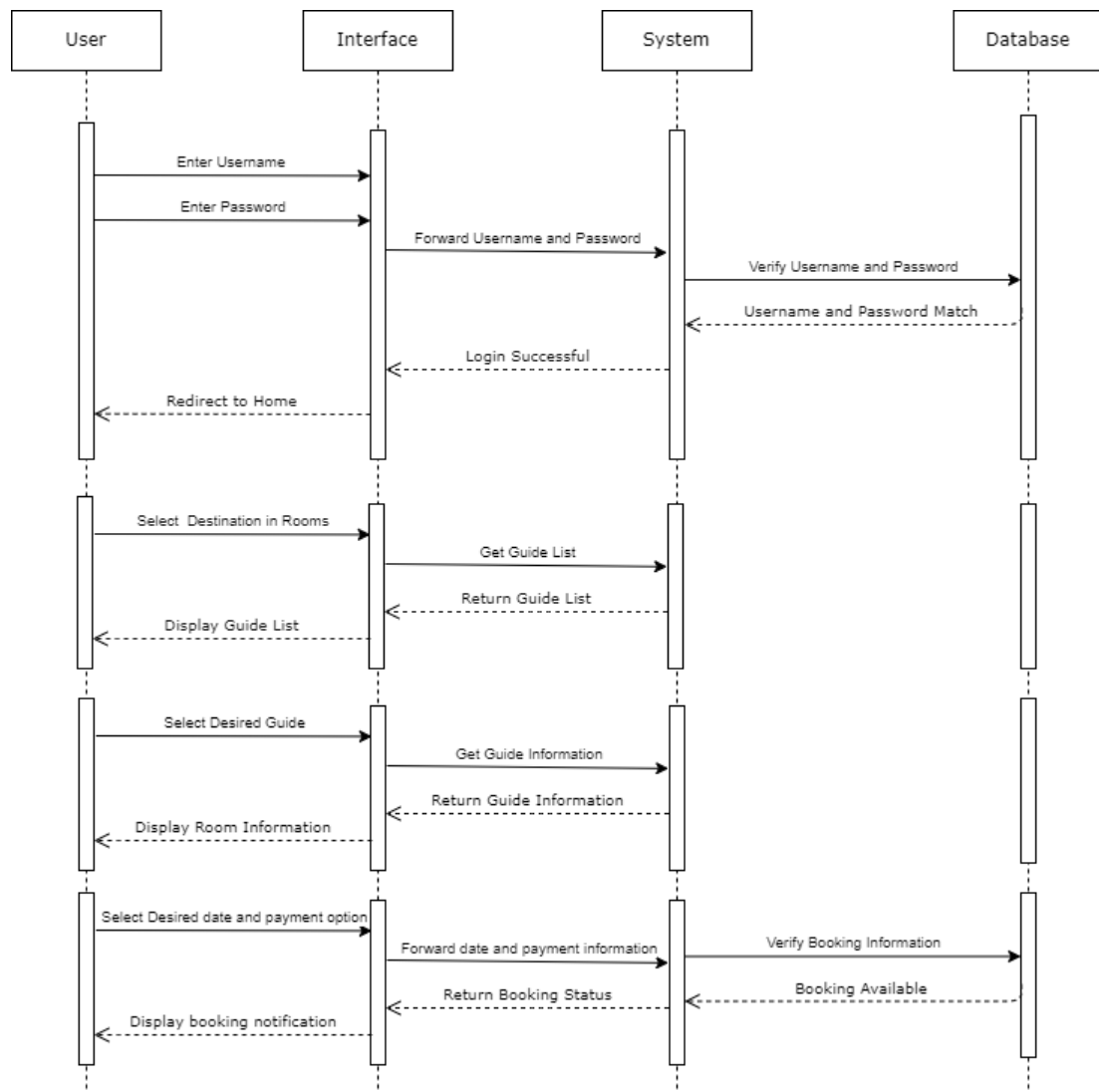


Figure 3.3: Hire travel guide Sequence Diagram

3.2.4 Settings Sequence Diagram

Figure 3.4 shows the Settings Sequence Diagram. After successful signing into the app the Users, guides and room hosts can view settings to view or change the details of theirs as per their needs.

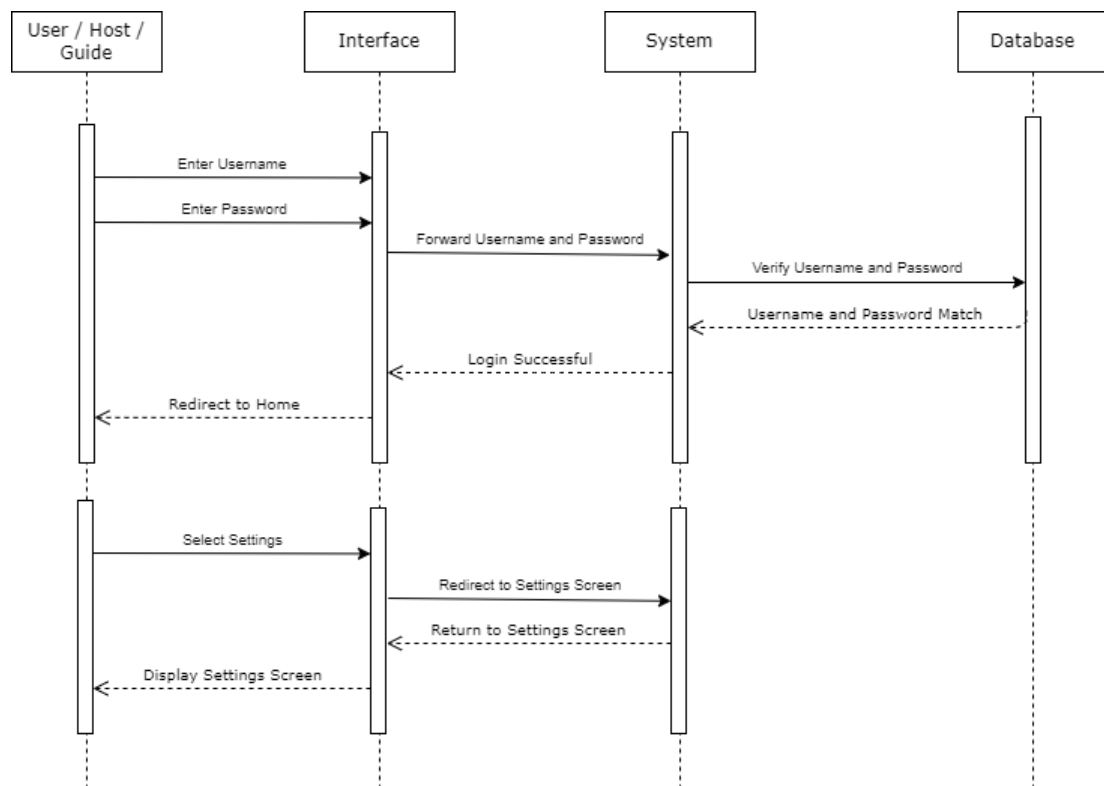


Figure 3.4: Settings Sequence Diagram

3.2.5 Host Room booking Sequence Diagram.

Figure 3.5 shows the Host Room Offer Sequence Diagram. After the Host successfully sign into the app, he would be able to receive requests to get his room booked for which he will have options to accept or reject.

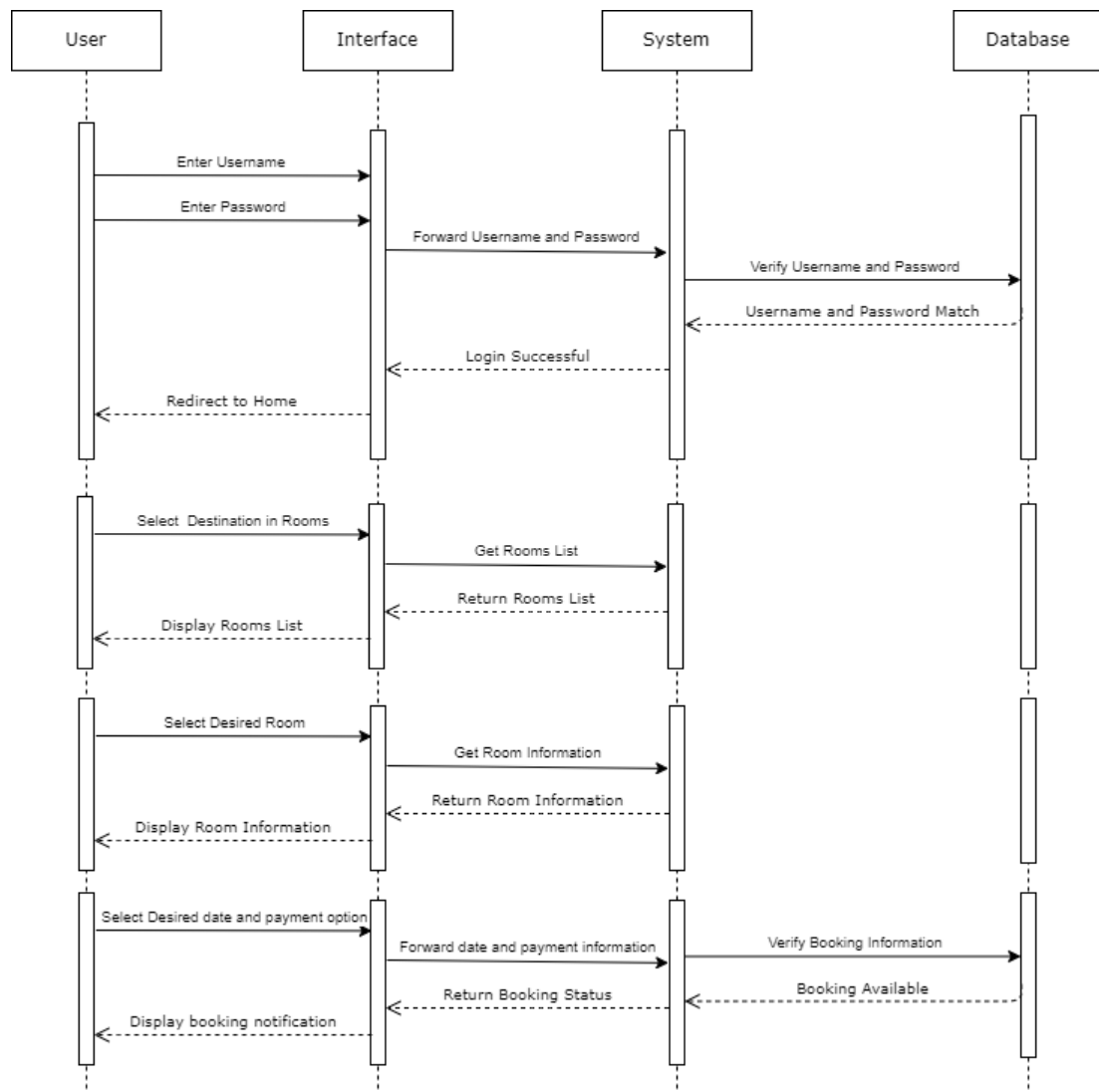


Figure 3.5: Host Room offer Sequence Diagram

3.2.6 Sign Out Sequence Diagram

Figure 3.6 shows the Sign out sequence diagram. After getting or completing the job the user, guide and room host can sign out of the web-application if they would like else, they could look for another job or view the other features of the application.

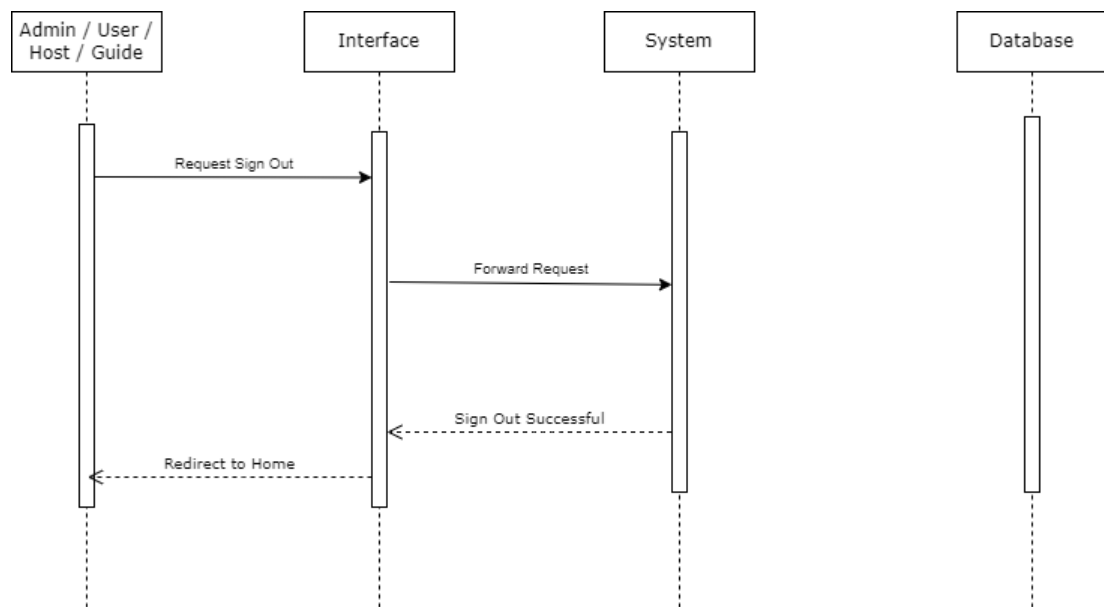


Figure 3.6: Sign Out Sequence Diagram

3.3 Class Diagram

The essential component of an object-oriented approach is the class diagram. It depicts the classes in a system, their properties and functions, and their relationships. Our

project's Class Diagram is shown in Figure 3.7.

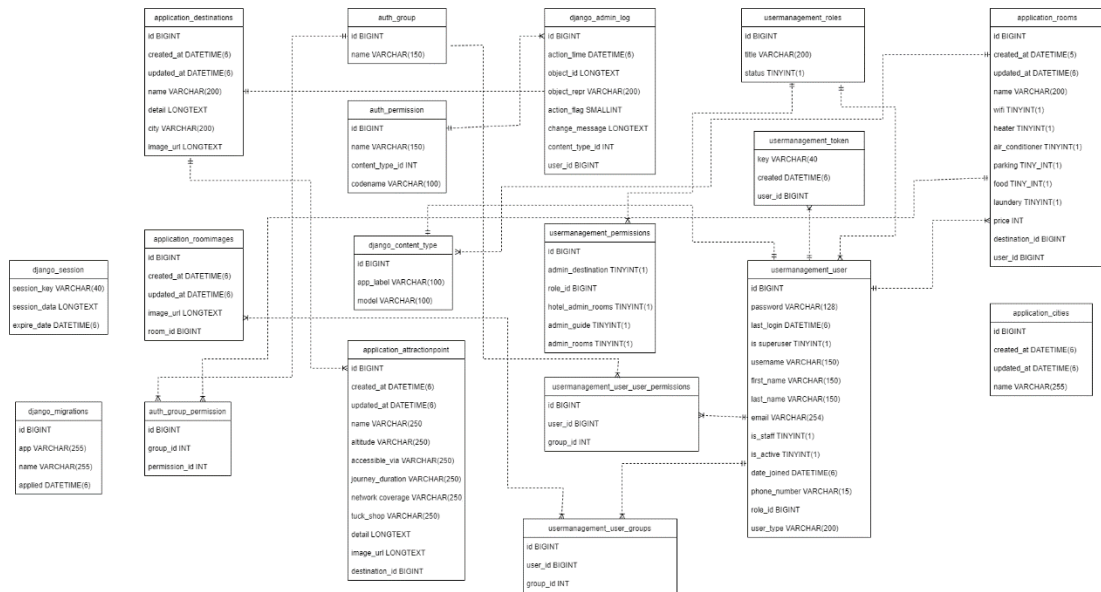


Figure 3.7: Class Diagram

3.4 Domain Model Diagram

The Domain Model Diagram is a method of describing and modelling real-world things and their interactions, which together characterise the issue domain space. The domain model diagram of Seero Tafriah is shown in Figure 3.8.

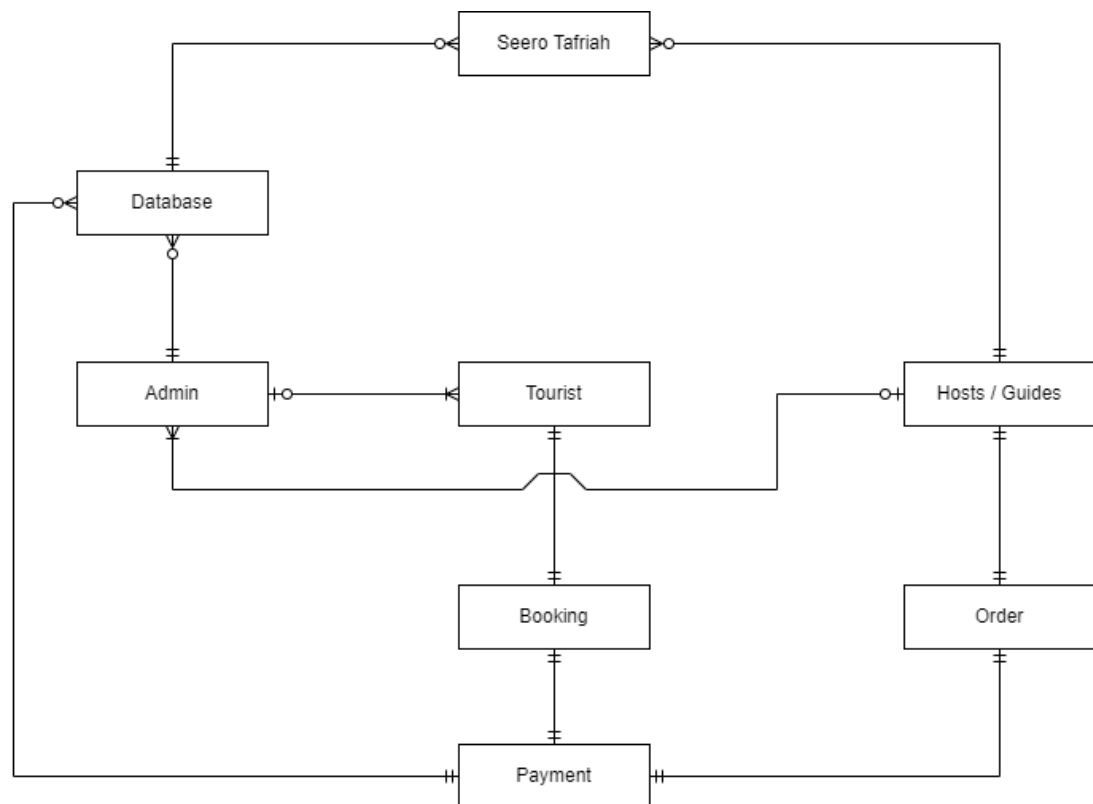


Figure 3.8: Domain Model Diagram

3.5 Entity Relation Diagram

The entity relation diagram (ERD) is a diagram that depicts the structure of a database. Figure 3.9 depicts our project's ERD.

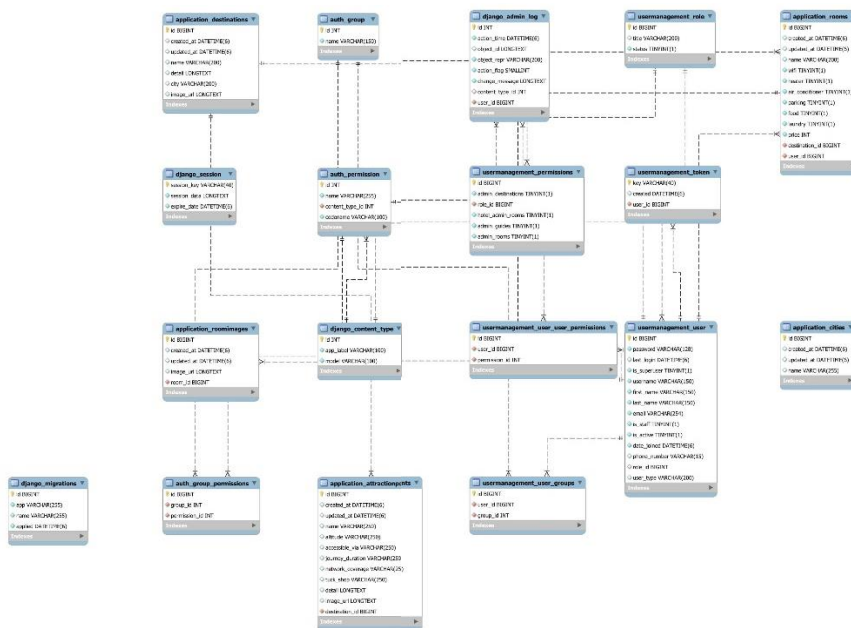


Figure 3.9: Entity Relation Diagram

CHAPTER 4

DATA AND EXPERIMENTS (and/or IMPLEMENTATION)

4.1 Languages used for Implementation.

Following languages were used for the implementation of the application:

4.1.1 React.js.

React JS combines the greatest features of native programming with React, a top-of-the-line JavaScript toolkit for creating user interfaces. React components use React's declarative UI paradigm and JavaScript to wrap existing native code and communicate with native APIs, allowing you and your team to work considerably quicker.

4.1.2 JavaScript.

React Native uses JavaScript to enable you iterate quickly and see your changes as soon as you save them, which means you don't have to wait for the build to finish and can view changes as soon as you save them.

4.2 Framework.

Following are the frameworks used in our project:

4.2.1 REST Framework

REST is an HTTP-based protocol for listing, generating, updating, and removing data on your server. The Django REST framework (DRF) is a toolkit developed on top of the Django web framework that helps you construct REST interfaces with less code.

4.2.2 Django

Django is a free and open-source Python-based web application framework. A framework is just a set of components that make programming easier. They've been gathered to allow you to build apps or websites using existing sources rather than having to start from scratch.

4.3 Implementation.

First the user, host, travel guide need open the Seero Tafriah website on their devices. Once they have opened, they will be welcomed by the Sign In page on opening the application. If the user, host, travel guide is new to the application he can roam free and also can create their account by sharing their details required by the application for e.g., your name, password etc. After successfully creating the account, the user, host, travel guide or can sign into their account and will be redirected to the home screen. From the home screen the user, host, travel guide can select from various major categories of services provided as per their designation. The travel guide can register himself to the website after that the user (tourist) can book him for his trip to the chosen destination and after the host getting signed in can upload his room with the services he is proving, the room can be booked by the user (tourist) where after staying at the host's place the user (tourist) can rate the host for his room and services [7].

CHAPTER 5

RESULTS AND DISCUSSIONS (or USER MANUAL)

5.1 Sign Up

When the user opens the application, he will be brought to the sign in screen. If the user is new to the application, he can select sign up which will direct him to the sign-up screen to create his new account.

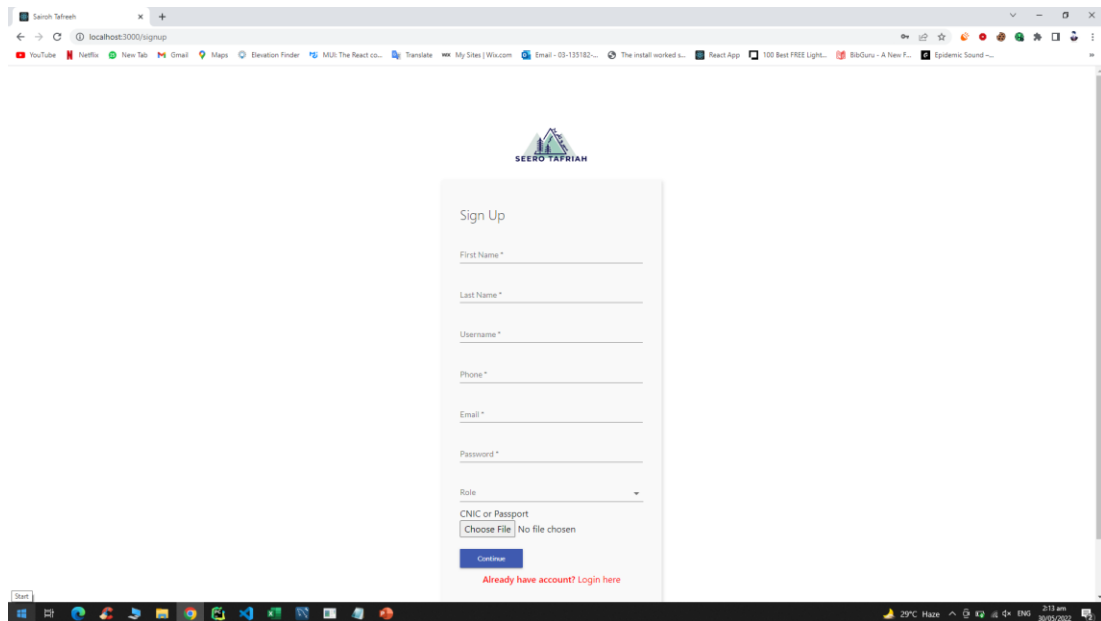


Figure 5.1: Sign Up Screen

Figure 5.1 shows the user being prompted to input his phone number, OTP, and password in order to establish a new account and sign into the app.

5.2 One Time Password (OTP) Generation

When the user forgets his login password then the user clicks on forget password and it appears a new forget password screen in which user have to enter his email or username and the email containing API will be send to the user's email. User can enter that code and can reset their password.

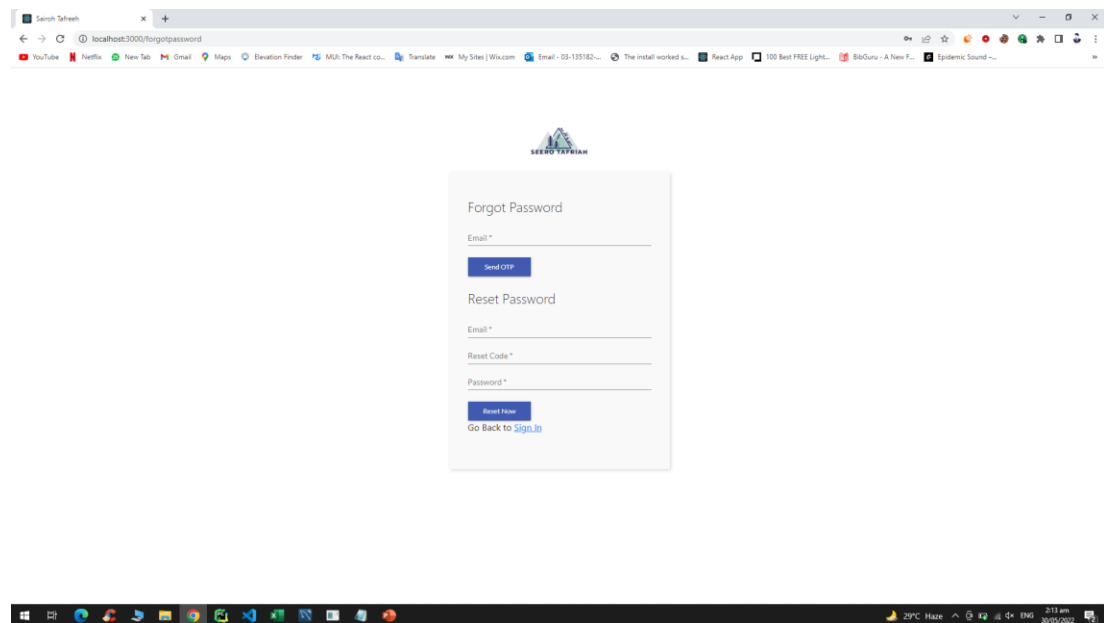


Figure 5.2: One Time Password (OTP)

Figure 5.2 shows the OTP generated when the user enters his email or username for the forget password. The user is required to enter the OTP in the application to proceed further password reset functionality.

5.3 Sign In

The user will be sent to the sign in screen when he first starts the app.

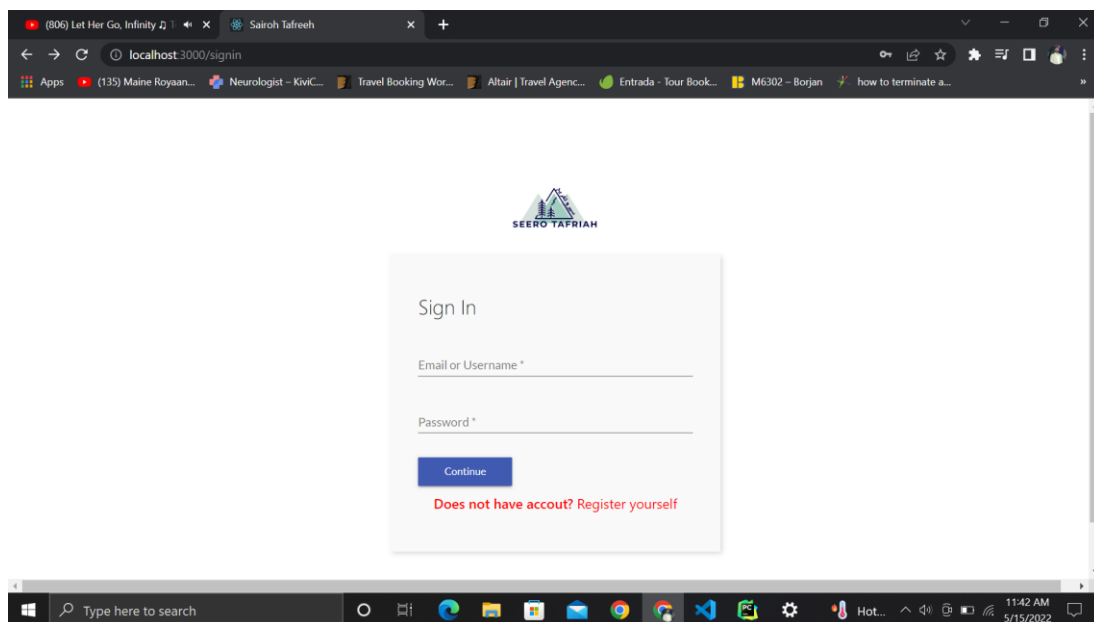


Figure 5.3: Sign In Screen

Figure 5.3 The user is requested to login into the programme by entering his email/username and password

5.4 Home Screen

When the user successfully logs in into the application he will be directed to the home screen.

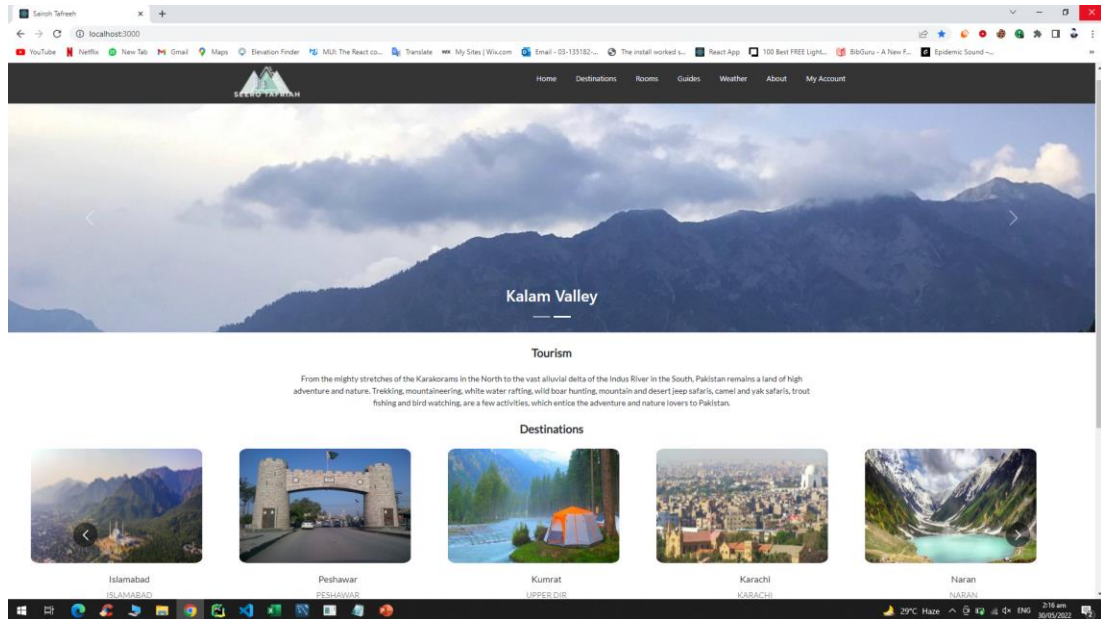


Figure 5.4: Home Screen

Figure 5.4 depicts the program's home screen, which lists all of the services that the application offers to the user.

5.5 Destinations Screen

The user will be taken to the destinations page after selecting a main category from the home screen.

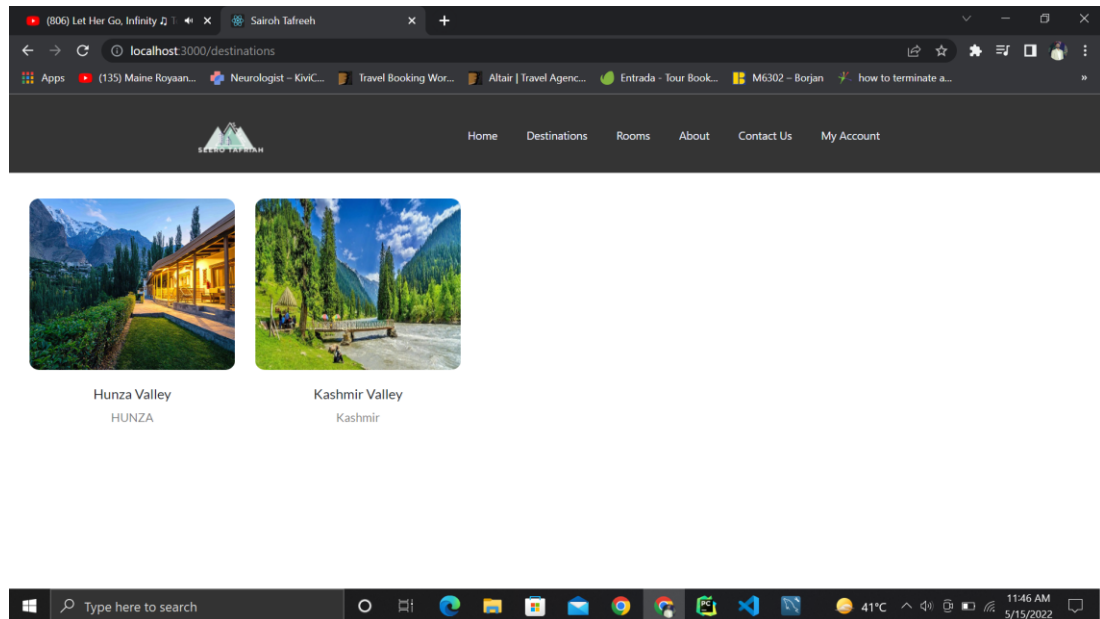


Figure 5.5: Destination Screen

Figure 5.5 shows the subcategories screen of the application which allows the user to be more specific about the appliance which he wants to get fixed.

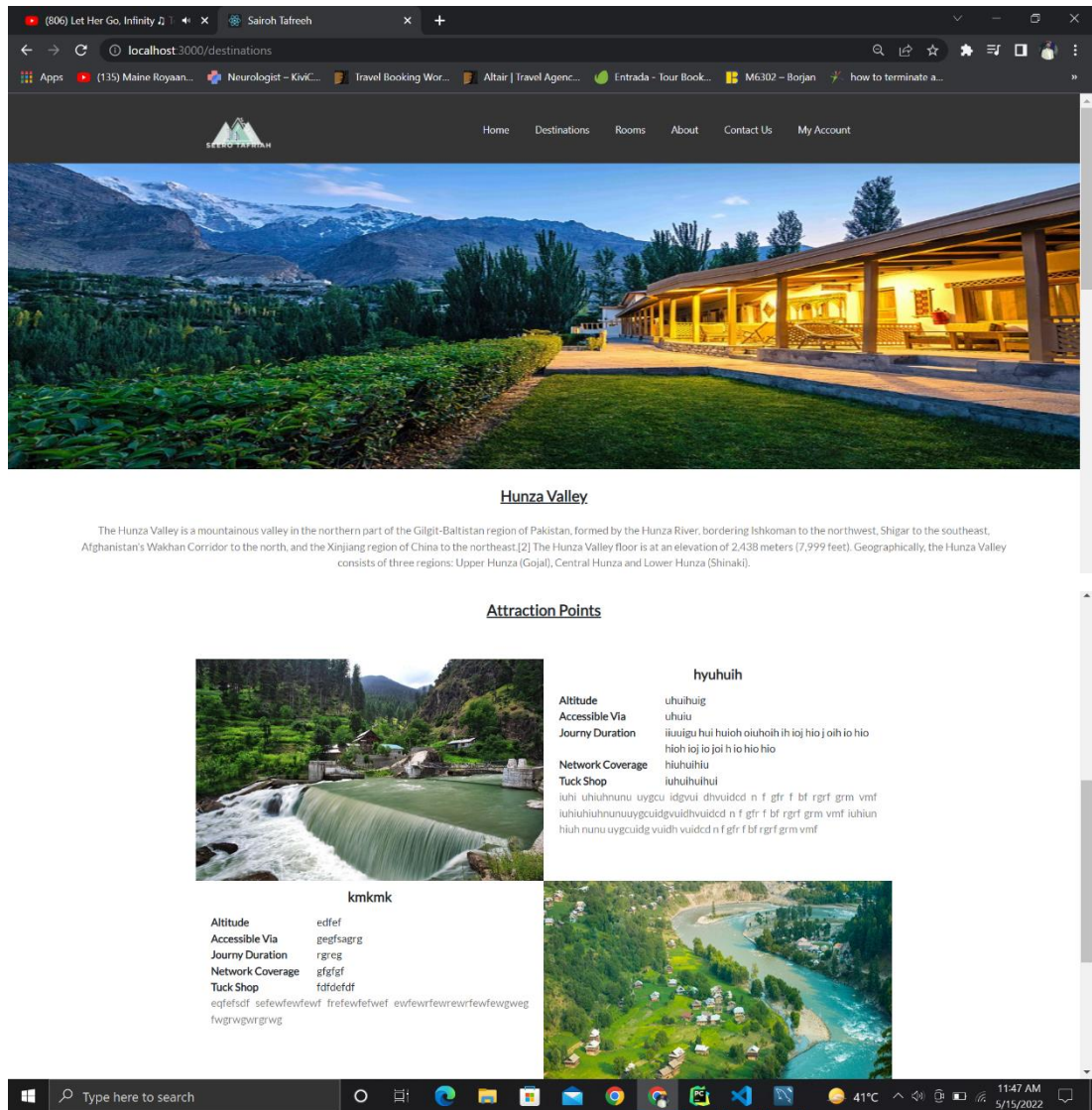


Figure 5.6: Destination Screen

Figure 5.6 depicts the destination screen. This page appears when the user selects a destination.

5.6 Tour Guide

After choosing destination the user can hire a local tour guide through this screen.

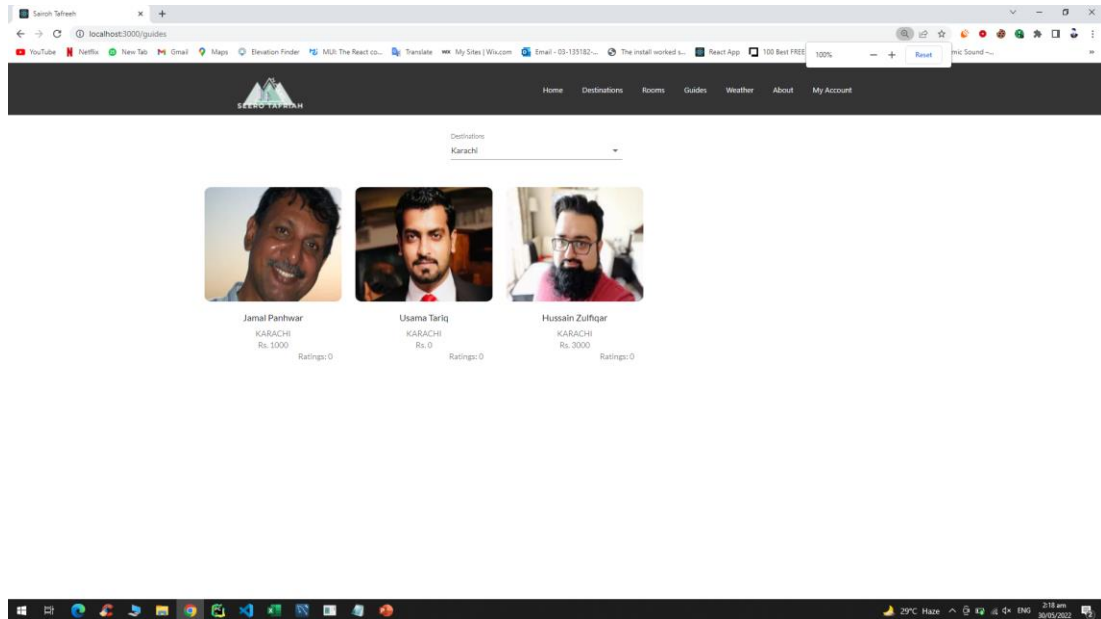


Figure 5.7: Hire Tour Guide

The figure 5.7 shows the screen where the user is required to enter the task in detail and select the time and date till when he wants to book a guide

5.7 Select room

After the user select his location, the user can select any room to be hosted by the local host.

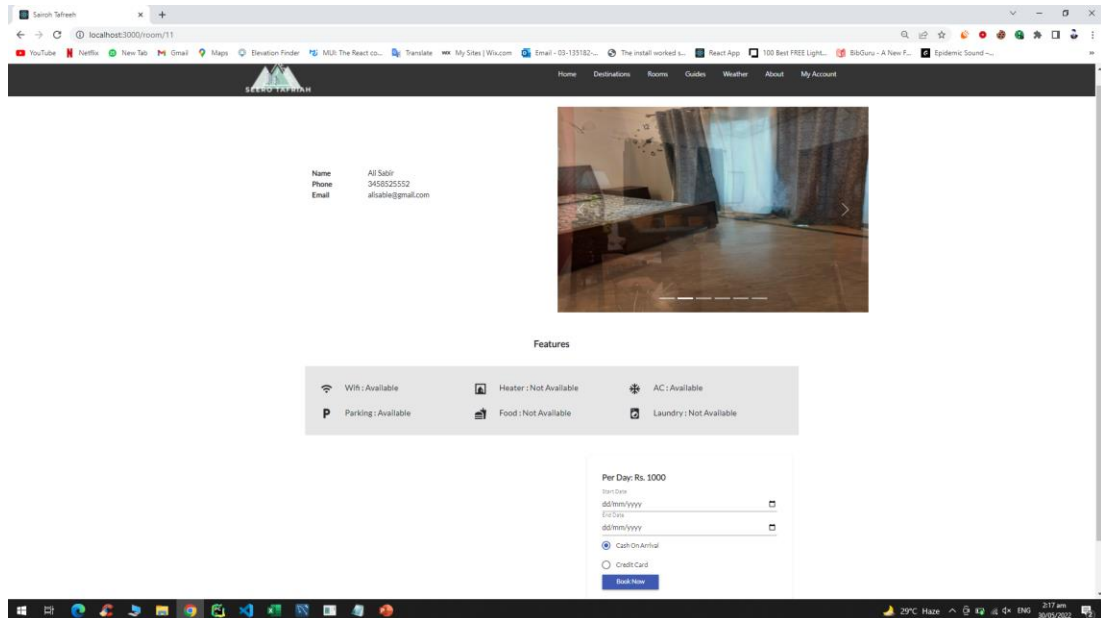


Figure 5.6: Search Room

Figure 5.8 shows the screen when a user clicks on a room.

5.8 Receive Payment

After the room or guide is booked it will proceed to the payment page where the user can select payment method. In our website there are two payment methods through which a user can pay them by hand or can pay through Stripe.

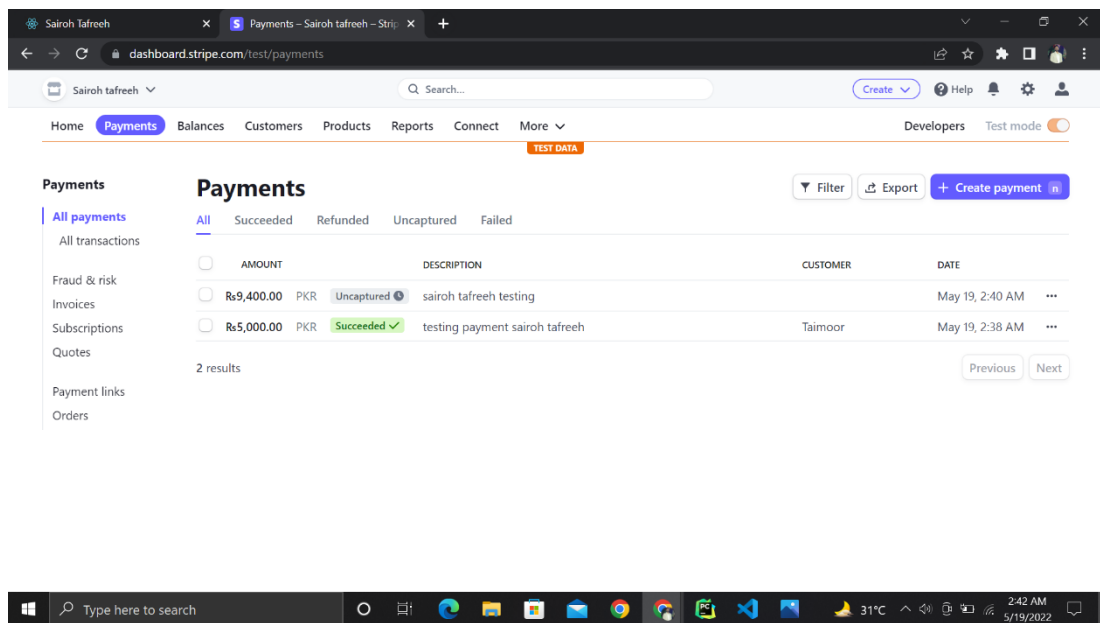


Figure 5.7: Payment

Figure 5.11 shows the payment screen where we will see all the transactions.

5.9 Admin Panel

After login to the admin panel this screen will show up in which we have a navigation bar at the top in which we have options for destinations, rooms, Guide and Logout

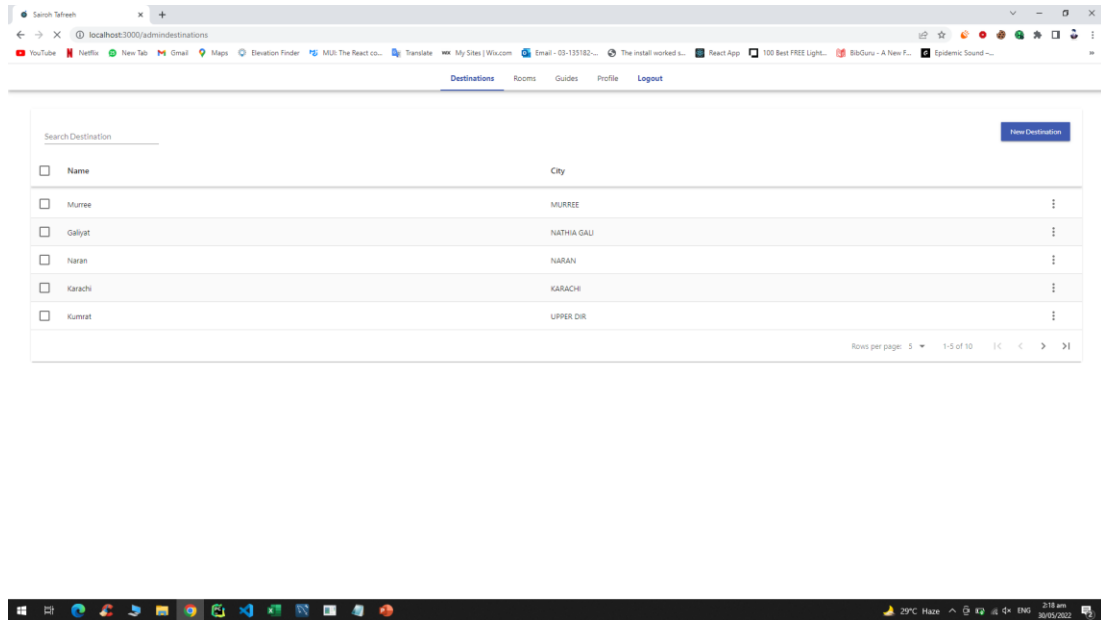


Figure 5.8: Admin Panel

Figure 5.14 shows the admin panel through which admin can add or delete rooms, destinations, guide etc.

5.10 Database

This is the database that we have created for this project.

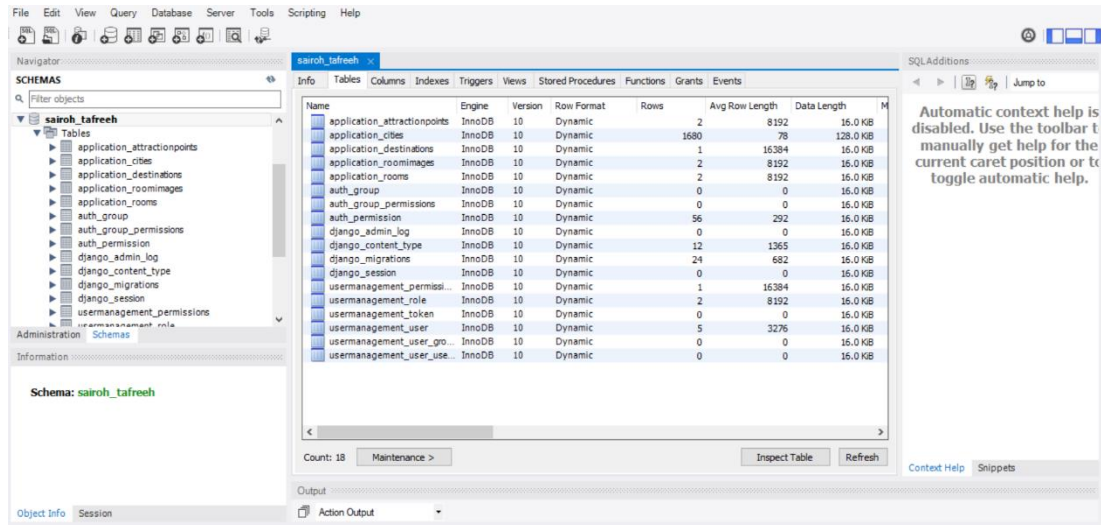


Figure 5.9: Database

Figure 5.15 shows the database of the project.

CHAPTER 6

CONCLUSION AND RECOMMENDATIONS

6.1 Conclusion

Seero Tafriah will provide travellers with an all-in-one travel solution, allowing them to learn about airport amenities and choose their destination, accommodation. We will offer them weather forecasts for any city while they are exploring Pakistan's stunning beauty. We will also provide contact information for tour operators who can assist tourists and organize trips towards desired destinations. If you wish to explore certain destinations on your own, you'll need a good guide who can make your journey smooth and easy. We will also add Airbnb like feature where local people will be able to host their rooms to the tourists which will help them a lot to earn money and grow.

6.2 Recommendation

In future furthermore new destinations can be added into the application. To avail discounts to the customer the functionality of promo codes can be added in the application. The promo code functionality would provide customers the services on low prices than the normal ones. The people with promo codes will only be able to access those prices at get benefits from it.

REFERENCES

Journal Papers:

- [1] M. I. Arshad, M. A. Iqbal, and M. Shahbaz, “Pakistan tourism industry and challenges: a review,” *Asia Pacific Journal of Tourism Research*, vol. 23, no. 2, pp. 121–132, Feb. 2018, doi: 10.1080/10941665.2017.1410192.
- [2] M. N. Mustafa, A. Muhammad, and B. Burdey, “AN EXPLORATORY ANALYSIS OF PAKISTAN TOURISM MARKET: ITS PRESENT SCENARIO, ISSUES, CHALLENGES AND FUTURE PROSPECTS,” 2017.
- [3] C. Ip, R. Law, and H. ‘andy’ Lee, “A review of website evaluation studies in the tourism and hospitality fields from 1996 to 2009: Review of Website Evaluation Studies,” *Int. J. Tourism Res.*, vol. 13, no. 3, pp. 234–265, 2011, doi: 10.1002/jtr.815.

Technical Reports and Theses:

- [4] M. J. S. Hasni, M. F. Farah, and I. Adeel, “The technology acceptance model revisited: empirical evidence from the tourism industry in Pakistan,” *J. tour. futures*, vol. ahead-of-print, no. ahead-of-print, 2021, doi: 10.1108/jtf-09-2021-0220.
- [5] M. Alhalalmeh, E. A. Tarawneh, and M. Eldahamsheh, “Moderating impact of innovation work behaviour on the relationship between entrepreneurial leadership and competitive advantage: An empirical study on retail industry of Jordan,” *Int. j. econ. bus. res.*, vol. 1, no. 1, p. 1, 2023, doi: 10.1504/ijebr.2023.10041877.

Electronic Sources from Internet:

- [6] “Tourism in Khyber Pakhtunkhwa,” <https://arynews.tv/tourism-sector-kp-government-eid-days-%E2%80%8Etourist/#:~:text=PESHAWAR%3A%20In%20a%20positive%20outcome,ARY%20NEWS%20reported%20on%20Sunday.,> Aug. 01, 2021.
- [7] A. Banerjee, “Human Resource Development in Tourism Industry in India: a Case Study of Jet Airways India Ltd.” [Online]. Available: www.mkitm.com

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