



TRAVELMATE

MOBILEAPPLICATION

By

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TABISH

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Under the Supervision of

GHAYAS UDDIN AHMED

2018

College of Computing Information Sciences
PAF-KIET NN Campus, Karachi Pakistan



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A project presented to the
College of Computing Information Science
PAF-KIET NN Campus, Karachi Pakistan
In partial fulfillment of the requirements for the degree of

Bachelors of Science
In
Computer Science

College of Computing Information Science
PAF-KIET NN Campus, Karachi Pakistan



College of Computing Information Sciences
NN Campus, Karachi, Pakistan

CERTIFICATE

This project “**Travelmate Application**” presented by **Syed Wasay Ali (59381) Tabish (59237)** under the direction of their project advisor and approved by the project examination committee, has been presented to and accepted by the CoCIS, in partial fulfillment of the requirements for the bachelor degree of Computer Science.

Mr. Ghayas Uddin Ahmed
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ABSTRACT

Everyday a smart phone users may additionally seem for a new application committed for their needs. Android makes it simpler for buyers to get and use new content material and functions on their smart phone's. This software provides an extraordinarily on-demand, fast and hassle-free android and IOS software travel mate application. This application is beneficial for tourists and travelers who posses android smart phone's.

This utility will provide customer with a range of aspects from selecting the correct vacation spot to making all the bookings and to without difficulty organizing the journeying log would be view in position which they can effortlessly edit.

This software provides solutions for each possible hassle a visitor might face all through their whole journey, for instance, one-of-a-kind language and traveling routes unknown locations resort views with contact important points so that person can e-book lodging as per there requirements. While visiting from one area to another, there are a lot of factors to be considered to make the day out a memorable one. Our platform helps the tourist with the whole lot that they would possibly need, from the moments they plan the experience until the time they are returned home happy and content. The platform includes a wide range of alternatives from the resolution of the mode of transport video great which would be strong and extraordinarily excellent performance due to the fact of having multiplied Auto focal point behavior, non-stop dynamic preview and extended noise tolerance feature.

ACKNOWLEDGEMENT

In the name of Allah, the most Gracious and the Most Merciful.

Peace and blessing of Allah be upon Prophet Muhammad ﷺ

First, praise of Allah, for giving us this opportunity, the strength and the patience to complete our FYP finally, after the challenges and difficulties. We would like to thank our supervisor sir Ghayas Uddin Ahmed for his guidance, motivation and most his significant contribution in this project, expert _____ and _____ for giving us the opportunity to work on this project. We would also like to thank our parents for financial and moral support and our friends who have helped and motivated us throughout. May Allah reward them all abundantly. Ameen.

DEDICATION

This report is dedicated to PAF-KIET University, our Teacher, and our Supervisor, our Parents, our fellow colleagues and the hard-working students of PAF-KIET, with a hope that they will succeed in every aspect of their Academic Career and this project may help them in any aspect of their life.

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CHAPTER 1

1. Introduction

The subsequent technology open running systems are now not on desktops or mainframes but on the small cellular units people carry each and every day. The openness of these new environments leads to new functions and markets and allows greater integration. This science has lengthily considered use in constructing statistics from analogy lives into the an increasing number of digital world as properly as building digital libraries, recognizing text shape natural scenes, understanding hand-written office types etc.

In Pakistan market, there was usually a massive demand of such an Android / IOS application, which would allow a visitor to help keep logs involving their excursions and visits to a number places, for that our generation wants newly creates in their arms and for that innovation, we come up with Travel mate Application. This utility will work as a purchaser visual tour guide. Tourists and Travellers wish all features in one application, so we are giving all in one. Travel mate software would encompass the user's profile which he/she can without difficulty edit also for reminiscences of places they can report videos, take pictures and can shop them in their Trips repository. motel booking view would be there for close-by hotels with their prices of reserving and for adventures and excursions well-known places will be advocated on our Famous Places Activity on simply one search. Users can precisely search to get records like museums, restaurants, hotels, culture, temples, etc. User Post their blogs in with they can express their experience. By their experience our application can recommend places to other users when they want to visit that cities and their famous area. The travel industry movement in an area to recognize changes in deals, charge incomes, salary, and occupations because of the travel industry action.

1.1. Motivations

In this project we tried to give one platform wherever they want to visit any easily view that place and read other people reviews about that place. By this application we learn about new technology as well as semantic analysis algorithm.

While travelling from one place to another, there are a lot of factors to be considered to make the trip a memorable one. Our platform helps the traveler with anything and everything that he or she might need, from the moment he or she plans the journey till the time he or she is back home happy and content.

1.2. Problem Statement

While traveling every person thinks about many things like clothes, places, foods and most important the direction where the destination is and the reviews about that place. Now a day's social media is playing so much active role so whenever people travel to visit different area, they give update on social media. By that people start knowing about different places and start planning for visit with their family and friends.

But still there is no such platform where according to our interest we travel in different areas. Mostly people face problem about location and the direction of the places.

1.3. Objectives and Contributions

The objective of this project is to facilitate the tourist and traveler to gather their traveling trip memories and give them multiple features in one application. Our project will mainly focus on the following objectives:

1. Create a platform for tourist and traveler to memories their trips on which date, day, where, on what time, that user visited the places.
2. Build a psychological profile database of the user get registered in the application.
3. Use data-mining algorithms to find similar user account per certain personal preferences.
4. Provide a user-friendly GUI to display psychological profiles so that user can easily understand, searching shopping places by searching country name we will provide list famous places.

To achieve the first goal, we will design GUIs of the activities we needed in our application. To achieve the second goal, we will create database of users for registered users. To achieve the third goal, we will be managed the stored data and APIs working for our application.

1.4. Project Scope

A must have app for those interested in travel. The app Provides users with various features form choosing the correct destination and to easily organizing the trip. The platform basically uses a react native technology. The app provides solutions for every possible problem a traveler might face while his or her entire journey.

A comprehensive list of all the information one would need to know about a city, be it current weather of the city or a list of best hangout places there. Along with the information, the current trend of the city on twitter can also be seen. Based on this information and the recommendation from the app, user can opt for the preferred destination location.

CHAPTER 2

2. Literature Review/Process Review

2.1.Introduction

We did an online survey on some online travel mate applications, which manage the trips and offer many primary features such as budgeting, transportation arrangements, hotel reservations, etc. We observed many existing applications and we have introduced a new feature in it which is to recommend to the users new plans/places to visit, recommended on the basis of users interest and reviews.

2.2.Literature Review

We found the following systems related to our project and analyzed those platforms in order to see what features and services they offer. We examined the following three platforms:

Travel mate consists of a group of authorities and people who have been working in the journey trade for over a decade. Travel Mate is a wholly-owned subsidiary of Al-Khair Group. Travel Mate Company used to begin in 2007, with simply one branch for Umrah Packages, however when you consider that then it has steadily multiplied its base and is now an utterly devoted journey house. Travel Mate is an entire vacationer friendly advisory that helps individuals and families to find great holiday sites, cruise or travel deals, travel discounts, and journey adventures, lodge bookings, ticketing, and visa facility. It helps you in many approaches to discover high-quality and low-cost family and entertainment holiday packages, Umrah and hajj packages, Group Tours, honeymoon packages, anniversary packages, cost find deals on cruises, airfare for home and international flights, boarding and lodging, leisure and vacation destinations. Get travel tips, thoughts and high-quality deals for many destinations you want to discover, see and explore with Travel Mate, so planning a vacation or Places to visit, matters to see and do, accommodation, visa, and passport practice Travel mate are prepared to serve.

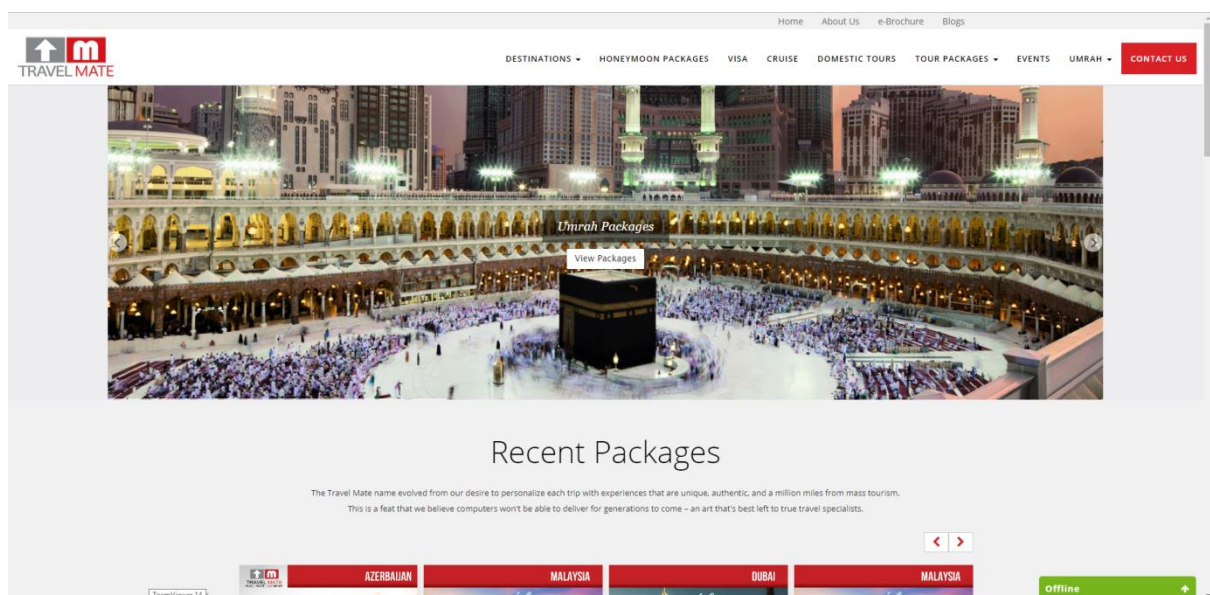


Figure # 2.2: Home page of website Travelmate

2.3.Non-Functional and Functional Requirements

2.3.1. Functional Requirements

- Sign In & Sign Up
- Home Screen
- User Profile
- View Location of 10 Cities
- View Users Comments on post visit
- Add Post about the location User visited
- Update user profile
- Semantic analysis about users interest

2.3.2. Non-Functional Requirements

Performance Requirements

- Application will perform with minimal lag.
- Centralization of database.

Reliability

- Ensure Data consistency
- Back up management

Security

- Password protection
- Role based application model

2.4.Project Significance

Our application lets all travelers to recommend different places according to their interest they want to visit. Bring all people who love travelling and try to visit maximum places in their life.

2.5.Software Platform

MS SQL	For our database
JavaScript, C#	Programming languages
Adobe Photoshop, Illustrator	For graphic design
Visual Studio Code:	For mobile app
Adobe Dreamweaver	For designing the website

CHAPTER 3

3. Projects diagrams

Following are the proposed workflow diagrams of our application.

3.1.Use Case Diagrams

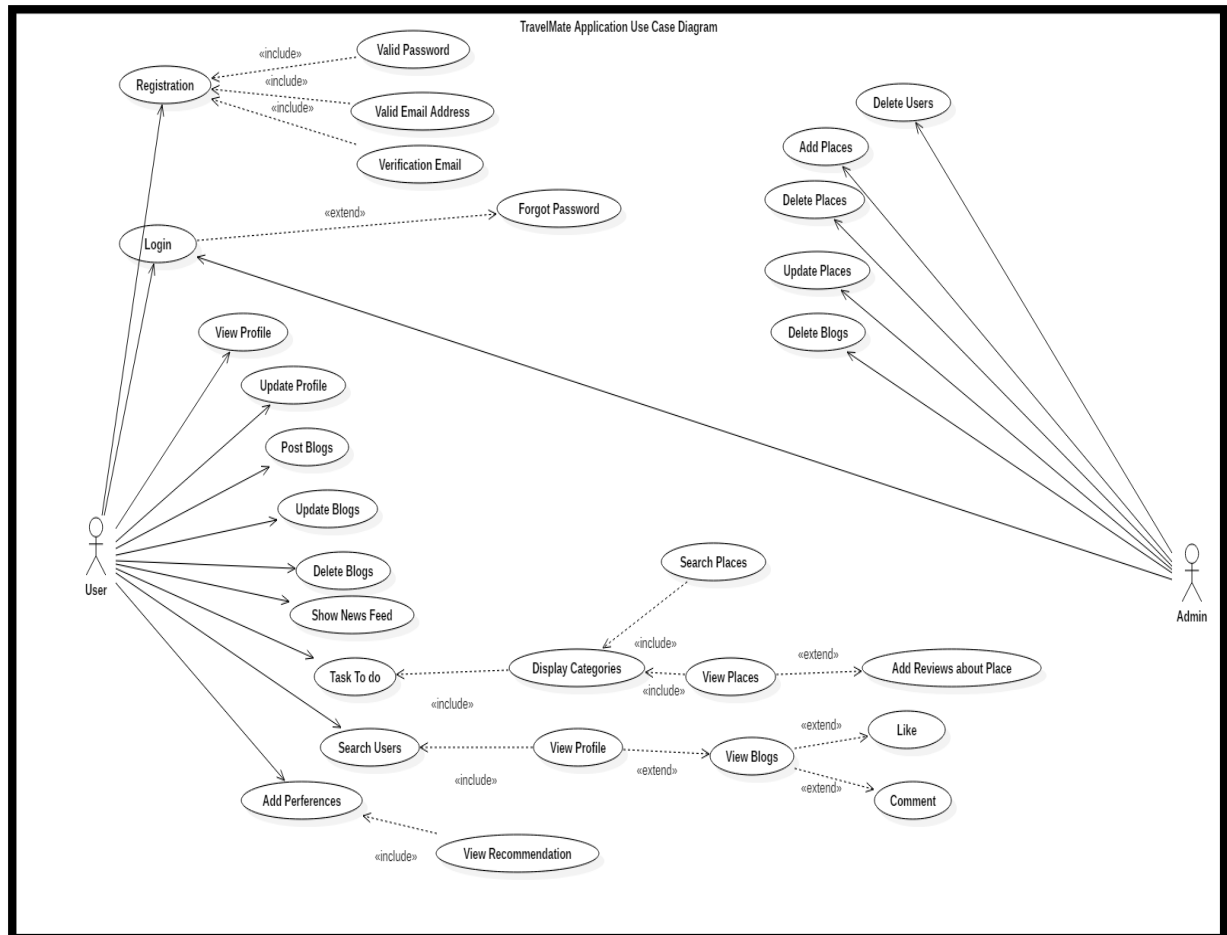


Figure # 3.1: Travel mate Use case Diagram

3.1.1 Use Case Descriptions

3.1.1.1. Login Use Case:

Name	Login
ID	1
Version	0.1
Description	User can login t o system
Actors	All type of users who created account

Frequency of use	None
Per Condition	None
Post Condition	Use case successfully login to home screen of application. If condition goes false then the application state is not changed.
Main Course	<ul style="list-style-type: none"> - Users entries the information is required fields. - System will display the home page
Alternative Course	Invalid Email\Password If email or password invalid then application will give you popup message about the email or password is incorrect.
Flow	<ol style="list-style-type: none"> 1. User required to enter email address and password at login screen. 2. Application will validates the user email address and password in valid or invalid.

Table # 3.1.1.1.: Login Use Case

2.1.1.2. Registration Use Case:

Name	Register
ID	2
Version	0.1
Description	A user creates an account on the system
Actors	All type of users can create account.
Frequency of use	None
Per Condition	Users tries to access application and only allowed for authenticate uses.
Post Condition	Success: The user enters correct data and returns to the landing page as an authenticated user Failure: User can't sign in for at least one reasons and is come back to the landing page as a user.
Main Course	<ul style="list-style-type: none"> - Users entries the information is required fields. - On user form submit request system will check whether this user already exist or not.

	<ul style="list-style-type: none"> - System will display success message for users and prompt login page.
Alternative Course	<p>Cancel Registration:</p> <ol style="list-style-type: none"> 1. User don't cancel their registration by them self. 2. User can generate request for cancelling their registration form the application. <p>Invalid Data Entered:</p> <ol style="list-style-type: none"> 1. Invalid data enter will show popup to enter correct data on the current screen.
Flow	<ol style="list-style-type: none"> 1. For new account users needs to fill all the required fields for creating their account successfully. 2. After creating account user will get code on their given email. 3. For new account user needs to enter their email address and password in their respected blank given. 4. After entering email and password user will directly entered to home screen of the application.

Table # 3.1.1.2: Registration Use Case

1.1.1.3.Profile User View Use Case:

Name	Profile
ID	4
Version	0.1
Description	A User Profile View
Actors	All users Profile
Frequency of use	None
Per Condition	User must login
Post Condition	User can view their profile activity successfully.
Main Course	<ul style="list-style-type: none"> - User can update the profile information fields. - User can add more pictures in their profile with descriptions. - User can update they account settings
Alternative Course	<ol style="list-style-type: none"> 1. Go back. 2. Back to newsfeed screen.
Flow	<p>Go to profile screen flow:</p> <ol style="list-style-type: none"> 1. The application displays the profile view.

	2. The system displays the pictures and blogs of the user as results. 3. Use case Ends
--	---

Table # 3.1.1.3: User Profile Use case

3.1.1.4.Post Blogs Use Case:

Name	Blogs
ID	5
Version	0.1
Description	A User Post and view Blogs
Actors	All Users
Frequency of use	None
Per Condition	User must login and View profile
Post Condition	User can view all their blogs they posted on that activity
Main Course	<ul style="list-style-type: none"> - User fill various fields for posting blog. - after posting blog user can update / edit or delete the blogs.
Alternative Course	1. Go back. 2. View Profile screen.
Flow	Add post: <ol style="list-style-type: none"> 1. The system displays all the blogs posted by that user. 2. The system displays the pictures and blogs. 3. Use case ends.

Table # 3.1.1.4: Add Post

3.1.1.5.View Location:

Name	View Location
ID	7
Version	0.1

Description	User can explore places from their profile interested to visit that location
Actors	All registered users
Frequency of use	Any time
Per Condition	-
Post Condition	On any clicked option User will get list of recommendation as per there interest.
Main Course	<ul style="list-style-type: none"> - User can search more places as per their interest and mood to visit - User can get the details on click any option to get details and recommendation to them.
Alternative Course	<ol style="list-style-type: none"> 1. Go back. 2. Go back to home screen.
Flow	<p>This use case starts when the user clicks on any option display on Task to do page.</p> <ol style="list-style-type: none"> 1. The system will view all the recommended data to user form that they can choose any of them. 2. On click any place user will get all the related information about that place. 3. Use case ends.

Table # 3.1.1.5: View Location

3.1.1.6.Add Post Use Case:

Name	Add Post
ID	8
Version	0.1
Description	User can add there views about places
Actors	All registered users
Frequency of use	Any time

Per Condition	User should be login
Post Condition	Click on plus icon to add post they visited
Main Course	<ul style="list-style-type: none"> - Admin will fill all the required fields of information. - After storing them they can update, edited the information or delete the information about that place
Alternative Course	None
Flow	When system admin will add description about places to view them in our application.

Table # 3.1.1.6: Add Post

3.2.Collaboration Diagram

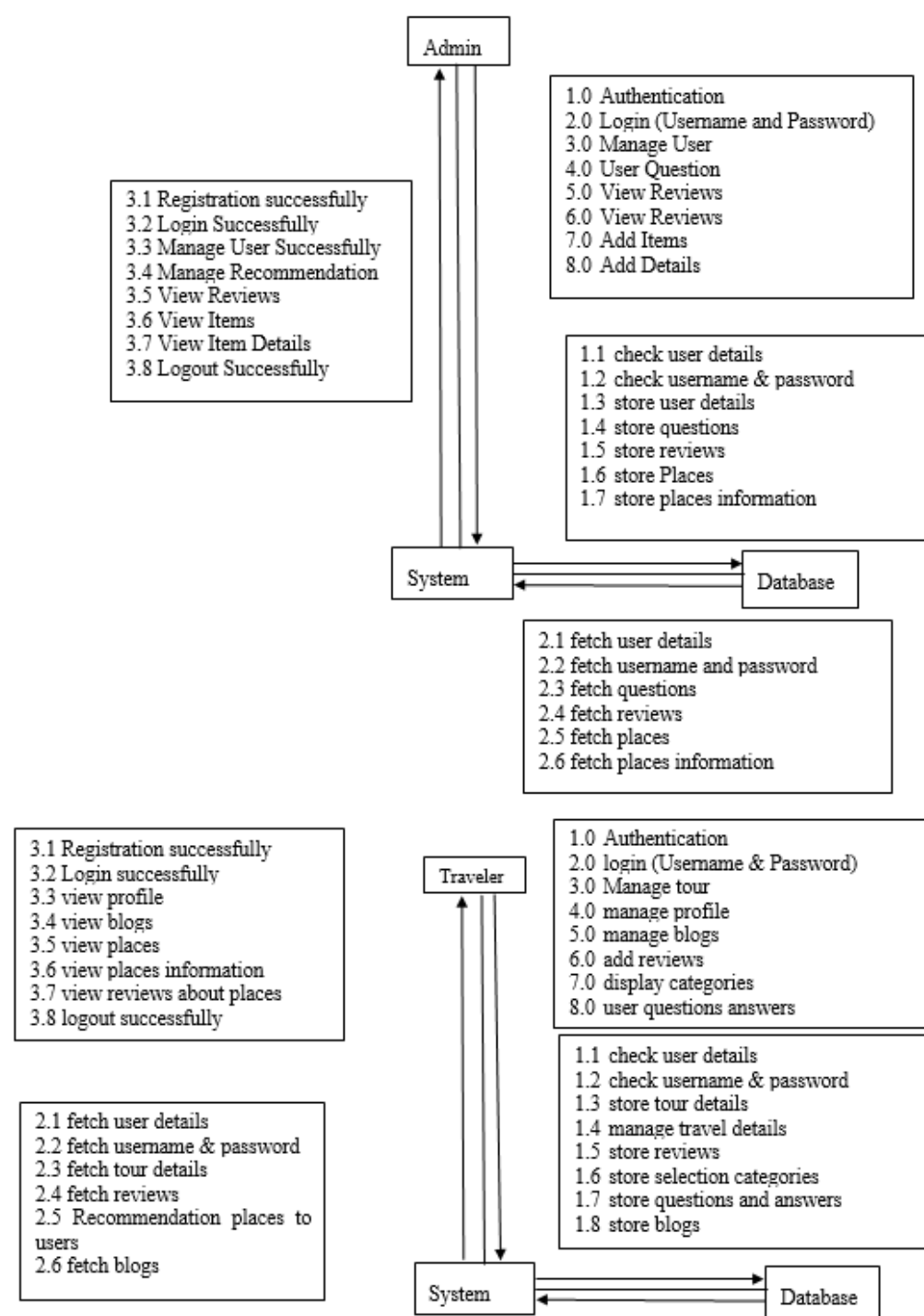


Figure # 3.2: Collaboration Diagram

3.3.Sequence Collaboration Diagram

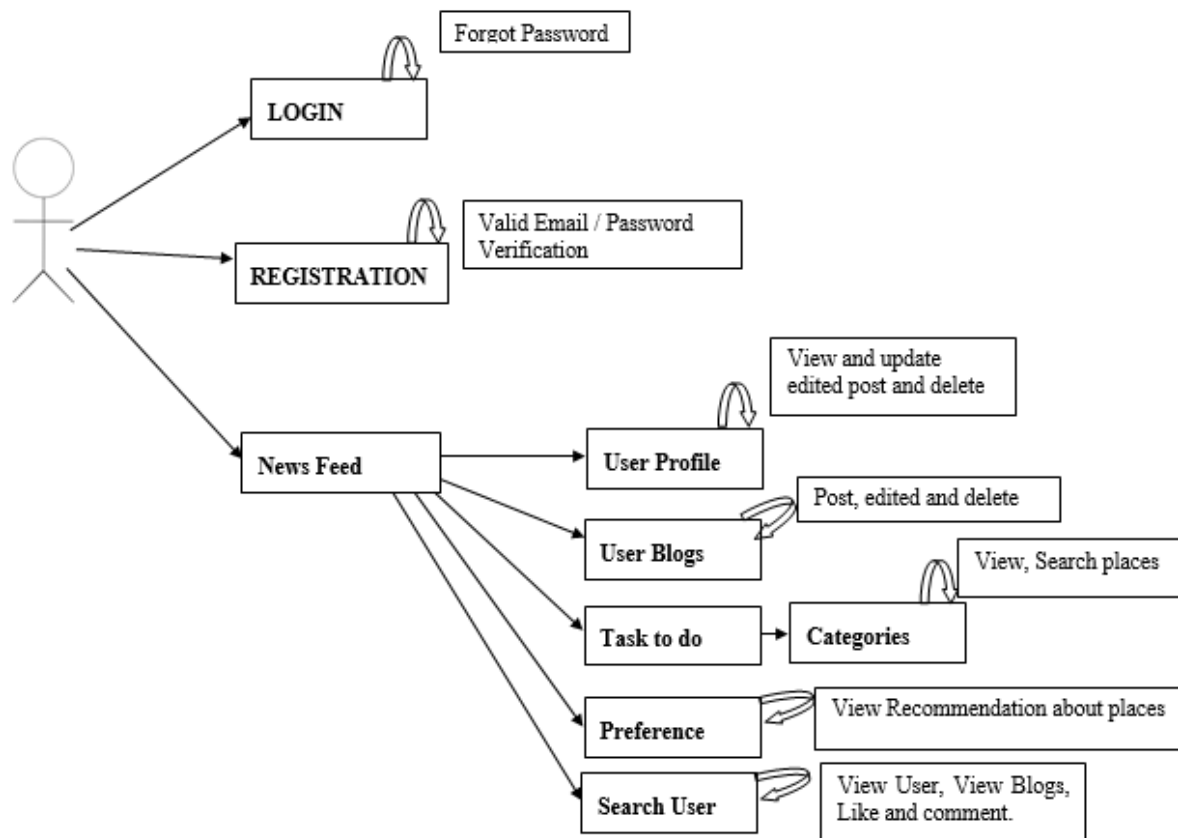


Figure # 3.3: Sequence Collaboration Diagram

3.4 Activity Diagram

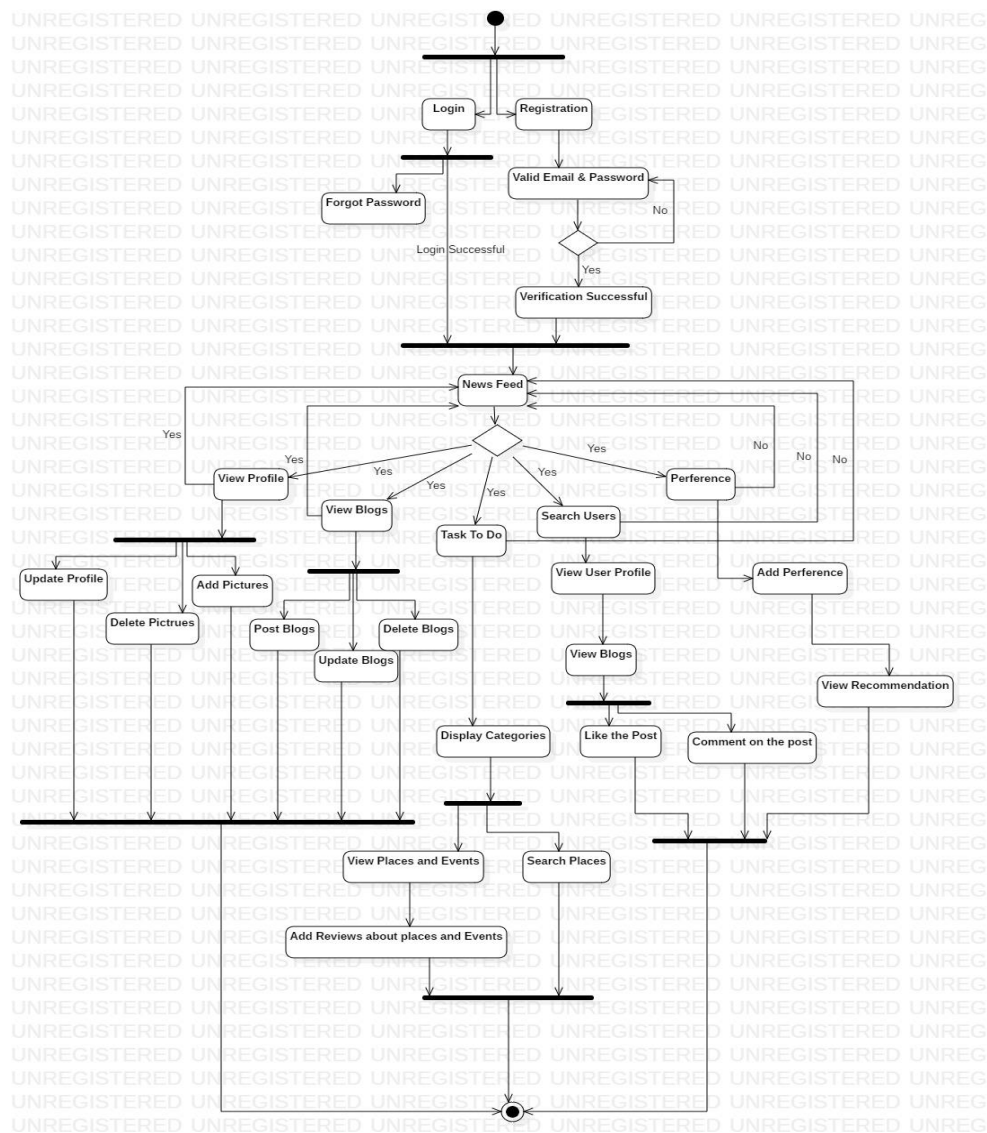


Figure # 3.4: Activity Diagram

3.5 Sequence Diagram

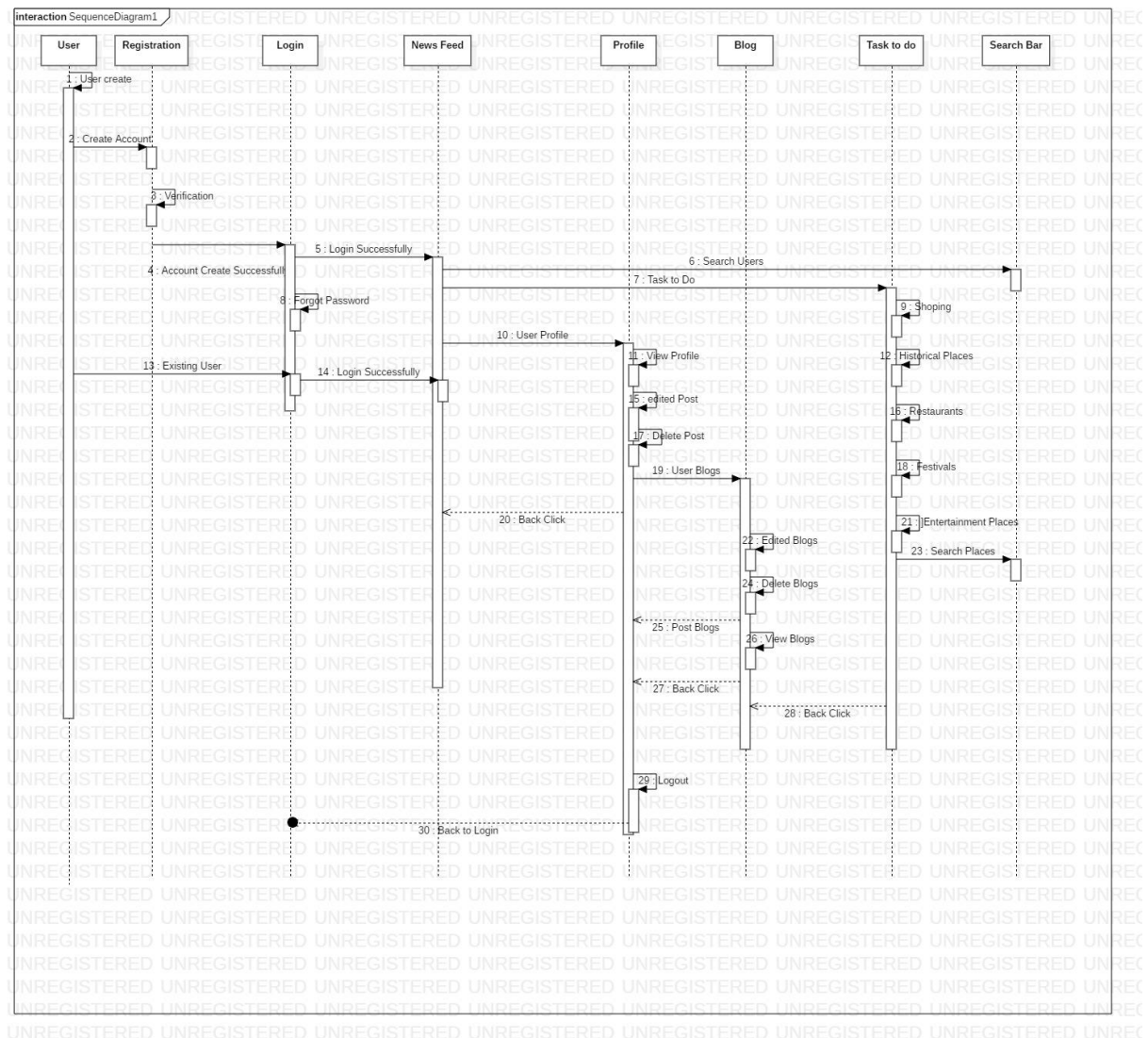


Figure # 3.5: Sequence Diagram

3.6 ER Diagram

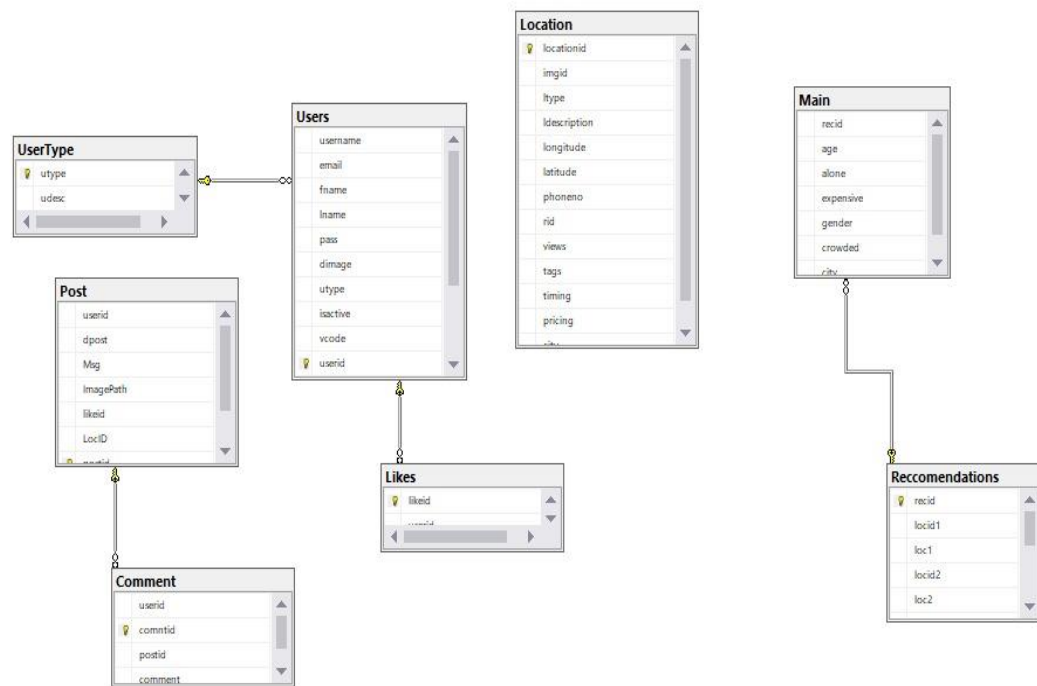


Figure # 3.6: ER Diagram

3.7 Inside Project

3.7.1 Android Smart Phone

3.8 Used Technologies

3.9 Server:

1. My SQL
2. React Native Js
3. Javascript
4. Visual Studio Code

Chapter 4

3. Project Planning

3.1. Project Timeline Summary

Title	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Write the Proposal										
Gather Requirements										
Design the Database										
Design the Functionality of System										
Design the User Interface										
Build the Database										
Develop the System Functionality										
Design the Recommendation Algorithms										
Build the GUI										
Develop the Recommendation Algorithms										
User Interface Testing										
Database Testing										
System Functionality Testing										
Test the Recommendation Algorithms										
Design a Reporting Format										
Develop Reporting side										
Test the Reporting side										
Integrate System Modules										
Integration Testing										
Write the Final Report										
Prepare for Evaluation										

Table # 4.1: Gantt Chart

CHAPTER 5

4. Testing

4.1. Black-Box Testing

After implementation, testing phase should be considered. In black box testing we will test functional and non-functional requirements.

4.2. System Testing

In this testing, complete and integrated testing will be tested. Our application would be tested, and anyone can perform this testing and we will also apply this testing by users to check if there is any issue arise so we must fix it.

4.3. Integration Testing

In this testing, all individual units combine first and then as integrated or as a group. In our application this testing would be done after every individual unit or module completed and then combined all individual units as a group. Then testing would be done both of us group mates. This testing is helpful for removing number of errors of system testing.

4.4. Unit Testing

In this testing, each individual unit would be tested separately. As we have (group mates) different tasks or modules to implement so after implementing each module, we must implement unit testing on each individual unit of the application. After that we must combine all these modules and test them as a group for integration testing.

4.5. User Acceptance Testing

This is last phase of testing which is based on user requirements. This testing would be done after all implementation phase when application will ready to deliver so we must test it by users to check final product meets user requirements or not.

4.6. Test Cases

5.6.1 Travelmate Application Installation /Uninstallation Test Cases

Test Case ID	Test Cases	Test Data	Expected Results	Actually	Pass/Fail
TC-1.1	Whether the application can be installed in a reasonable amount of time	Travelmate Application	The application should be installed successfully.	The application should be installed successfully.	Pass
TC-1.2	Whether the application can be uninstalled in a reasonable amount of time	Travelmate Application	The application should be uninstalled successfully.	The application should be uninstalled successfully.	Pass
TC-2.1	Whether the application can be operated with internet	Enable Cellular Data / Wifi	Application should show Login Screen to Login.	Application should show Login Screen to Login.	Pass
TC-2.2	Whether the application can be operated without internet	Enable Cellular Data / Wifi	Application should show alert to connect/ enable internet.	Application should show alert to connect/ enable internet.	Pass

Table # 5.6.1.: Application Installation/Uninstallation

5.6.2 Travelmate Login Screen Test Cases

Test Case ID	Test Cases	Test Data	Expected Results	Actually	Pass/Fail
TC-1.1	Check user Login by passing correct information	User Email Address = <u>ali@gmail.com</u> Password = 555	Application should log user in successfully	User should Login into application if that email is registered in database.	Pass
TC-1.2	Check user Login with	User Email	User should not Login into	User should not Login into	Pass

	invalid	Address = <u>ali.@gmail.com</u> Password = 123	application	application and show alert that “Error: Incorrect password or email”	
TC-1.3	Check user Login Blank User email address	User Email Address = Leave Blank Password = 123	1. User should not Login into application. 2. Alert message should show “Error: Fill Empty Details”	1. User should not Login into application. 2. Alert message should show “Error: Fill Empty Details”	Pass
TC-1.4	Check User Login with Blank Password	User Email Address = <u>ali@gmail.com</u> Password =	1. User should not Login into application. 2. Alert message should show “Error: Fill Empty Details”	1. User should not Login into application. 2. Alert message should show “Error: Fill Empty Details”	Pass

Table # 5.6.2: Login Screen

5.6.3 Travelmate Create Account Test Cases

Test Case ID	Test Cases	Test Data	Expected Results	Actually	Pass/Fail
TC-1	Create account	-	User should get create account screen page.	As expect	Pass
TC-2	Check username with valid Data	First Name: TabishAli	Registration form screen	As expect	Pass
TC-3	Check username with blank	FN=empty	Popup will generate for fill the empty fields	Popup showed to fill empty field	Pass
TC-4	Check Email field	Email =	User should able to move to the	As expect	Pass

	with valid Data	ali@hotmail.com	“Password”field successfully.		
TC-5	Check Email field with invalid Data	Email: alihotmail.com	<ol style="list-style-type: none"> 1. User should not able to move to the “Password” page. 2. Alert should show “Enter valid email” 	As expect	Pass
TC-6	Check Email field with existing Data	Email: ali@hotmail.com	<ol style="list-style-type: none"> 1. User should not able to move to the “Password” page. 2. Alert should show “Email already exists” 	As expect	Pass
TC-7	Check Email field with Blank Data	Email: empty	<ol style="list-style-type: none"> 1. User should not able to move to the “Password” page. 2. Alert should show “Please Enter Email” 	As expect	Pass
TC-8	Check Password field with valid data	Password:123	User should able to move to the “Confirm Password”field	As expect	Pass
TC-9	Check Password field box type	Password = 12345678	Password data should show in encrypted format (*****).	As expect	Pass
TC-10	Check Confirm Password field with valid/matched Data	Confirm Password = 12345678	User should able to move to the “User interest Field of Information” page.	On submit button popup will generate about Error password is not equal	Pass
TC-11	Check remaining fields are filled or not	Interested of User: <ol style="list-style-type: none"> 1. Expensive 2. Alone 3. Crowded 4. Gender 	<ol style="list-style-type: none"> 1. User will select the option of yes or no for the popup screen 	As expect	Pass

Table # 5.6.3: Create Account Test Cases

5.6.4 Travelmate Home Screen Test Cases

Test Case ID	Test Cases	Test Data	Expected Results	Actually	Pass/Fail
TC-1	Check After Login Screen	Email: ali@gmail.com Password: 123	Move to home screen	Move to home screen	Pass
TC-2	Side navigation		Click on side navigation list of our screen showed	Click on side navigation list of our screen showed	Pass
TC-3	Click on travel guide		You will view few locations and by click them you can see the location and user reviews.	You will view few locations and by click them you can see the location and user reviews.	Pass
TC-4	Click on Plus sign above given is for “Add Post”		Move to Add post screen and you can add your reviews according to your experience.	Move to Add post screen and you can add your reviews according to your experience.	Pass
TC-5	View newsfeed and reviews about different places		You can add comment about places.	You can add comment about places.	Pass

Table # 5.6.4: Home Screen

5.6.5 TravelmateProfile Screen Test Cases

Test Case ID	Test Cases	Test Data	Expected Results	Actually	Pass/Fail
TC-1	Click on Profile Icon		Move to Profile	Move to Profile	Pass

			Screen	Screen	
TC-2	Data view about user	Name Last name Email Age Expensive Gender Alone	During sign up user filled all the areas expect last name, so all the given data displayed on profile screen.	During sign up user filled all the areas expect last name, so all the given data displayed on profile screen.	Pass
TC-3	Information given Editable	Name Last name Email Age Expensive Gender Alone	On click on Update Profile you can change your data directly from there. Show message you Profile update successfully	On click on Update Profile you can change your data directly from there. Show message you Profile update successfully	Pass
TC-4	Check on logout		Move to login screen	Move to login screen	Pass

Table # 5.6.5: Profile Screen

5. GUI of Android Application

5.1. Login Interface

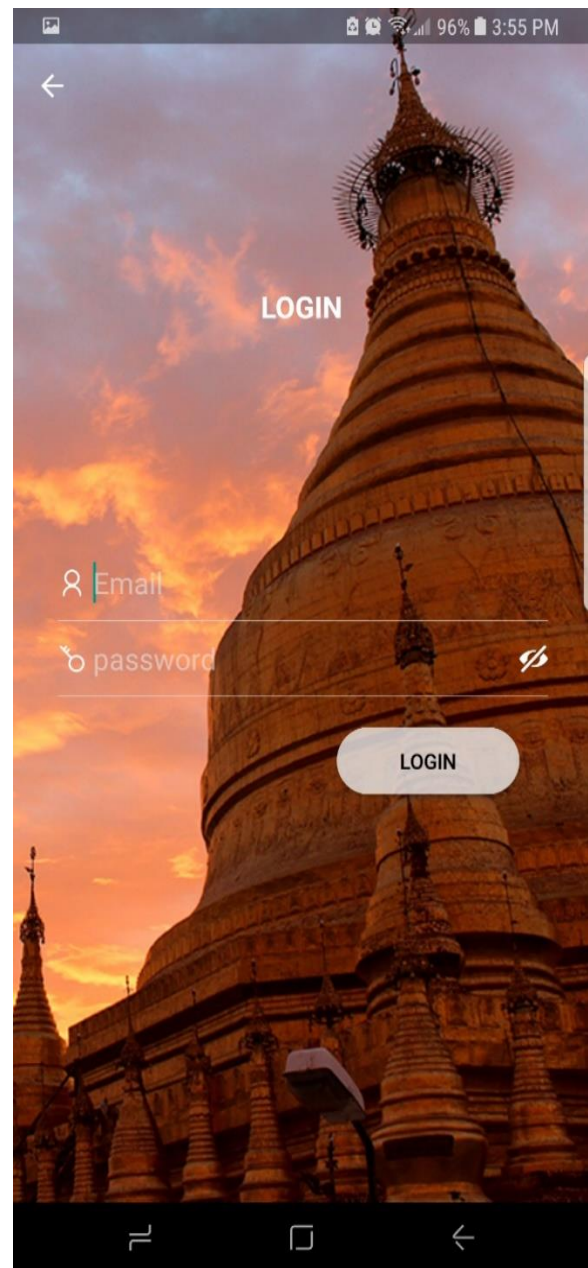
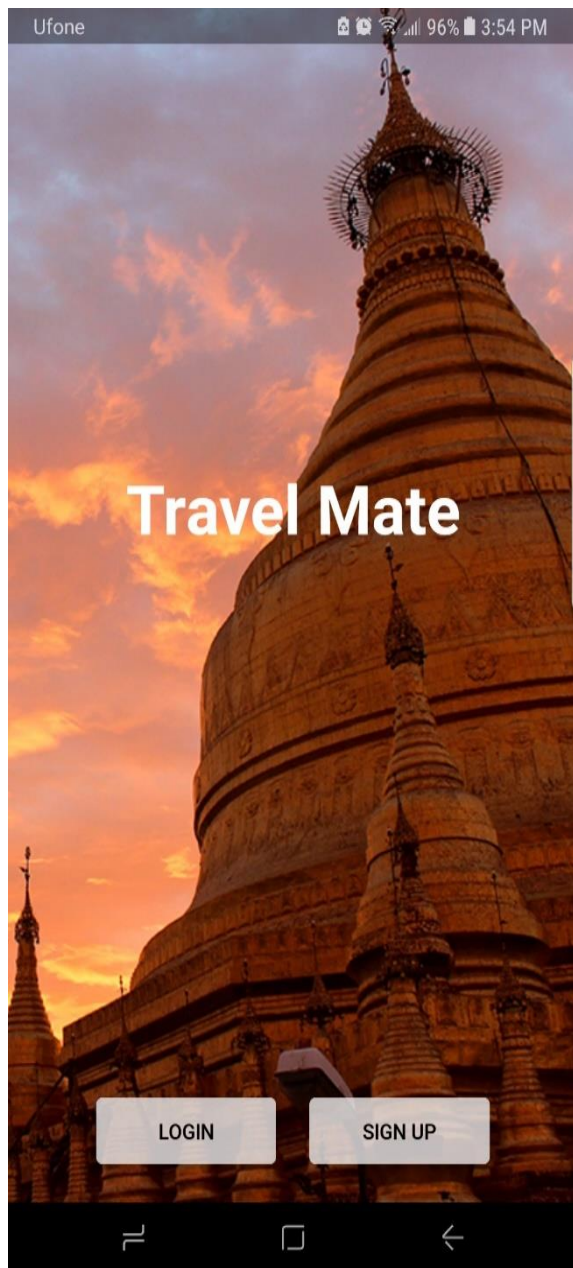


Figure # 6.1: Login Screen

5.2. Sign up Interface

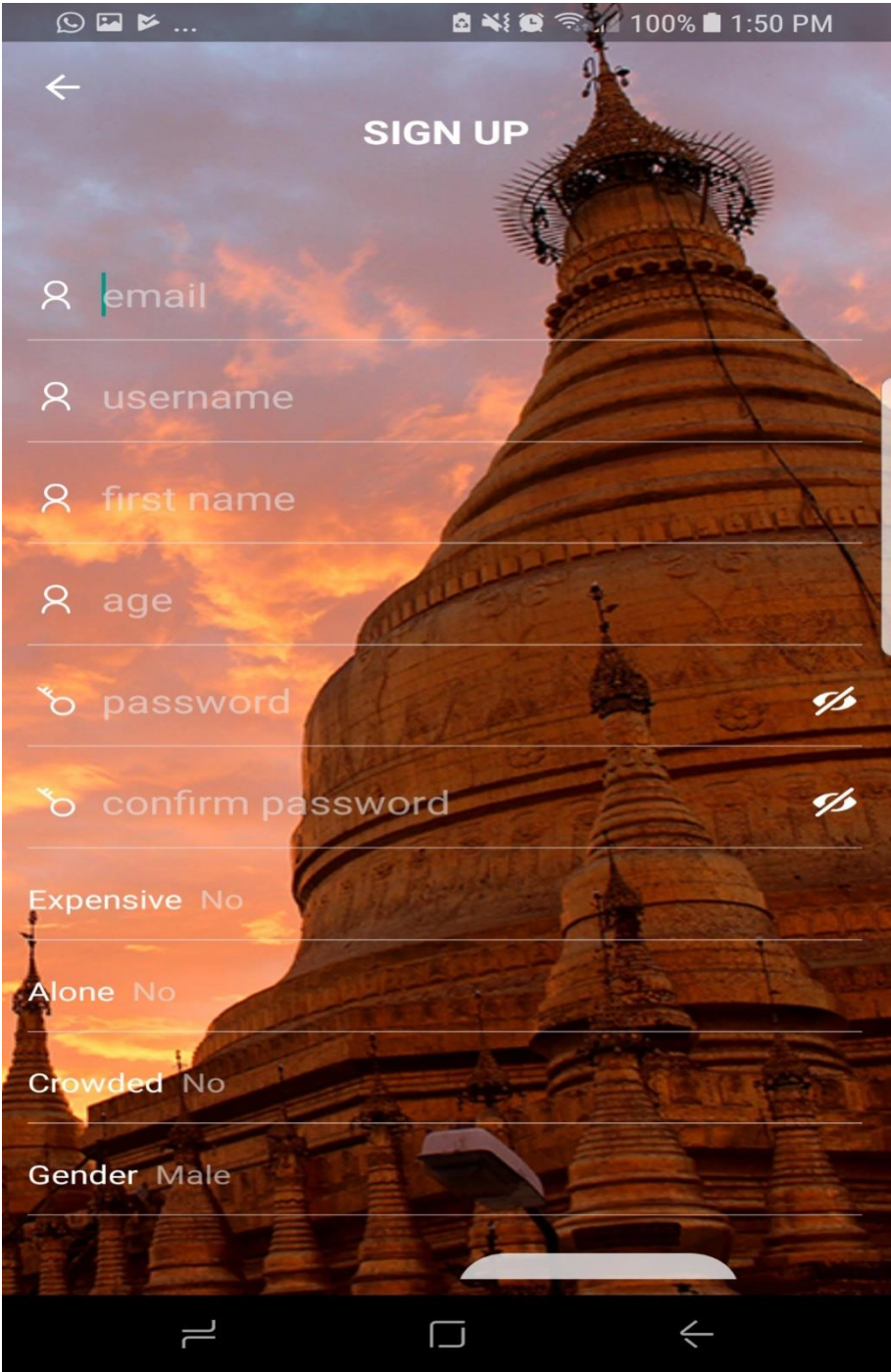


Figure # 6.2: Signup

5.3. Home Panel

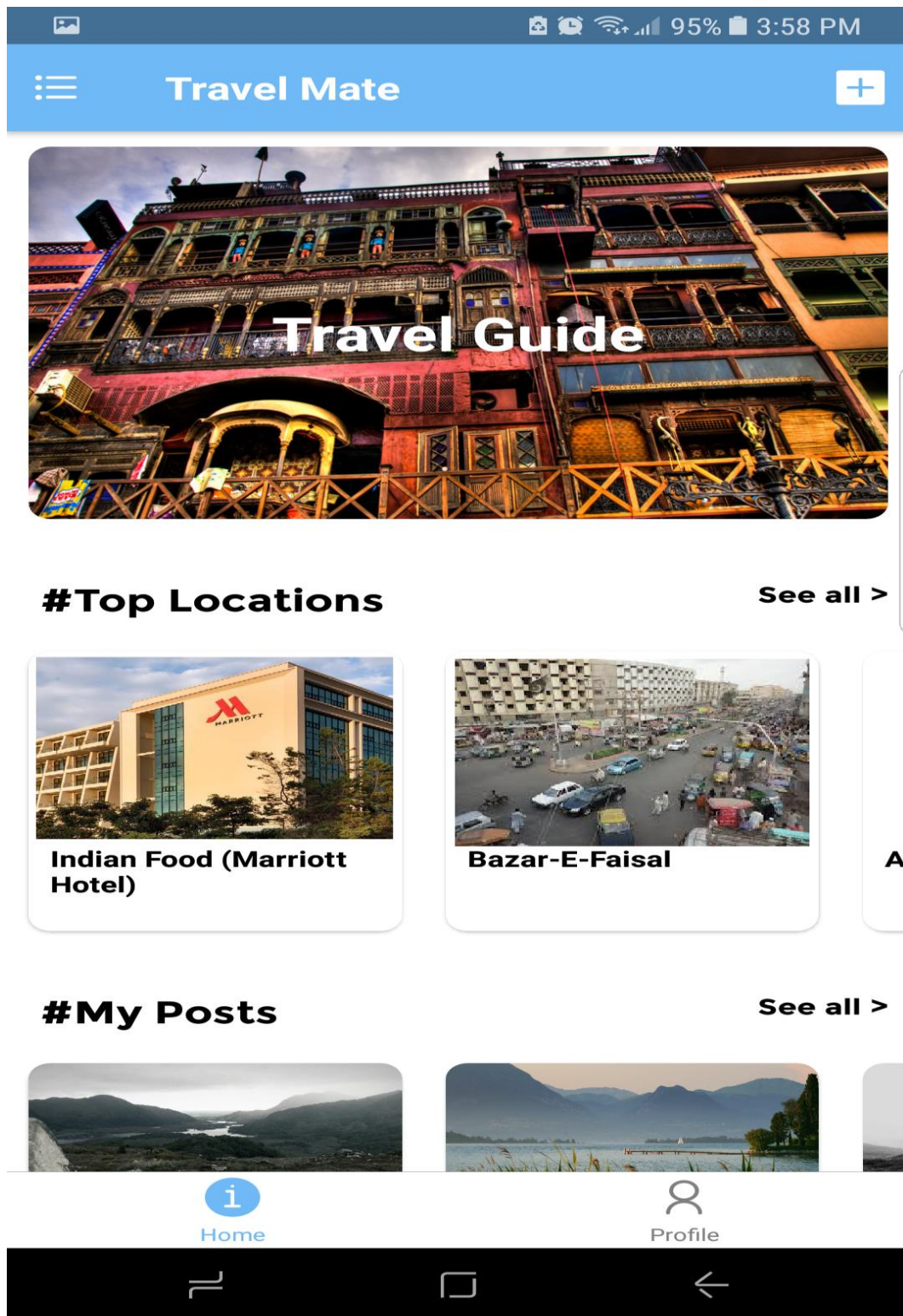


Figure # 6.3: Home Screen

5.4. Profile Panel

Ufone 96% 3:56 PM

Travel Mate

tabish Ali

ACCOUNT INFORMATION

First Name
tabish

Last Name
Ali

Email
ali@gmail.com

Age
18

Expensive
Yes

Gender

Home Profile

Figure # 6.4: Profile Screen

6.5. Add Post Panel

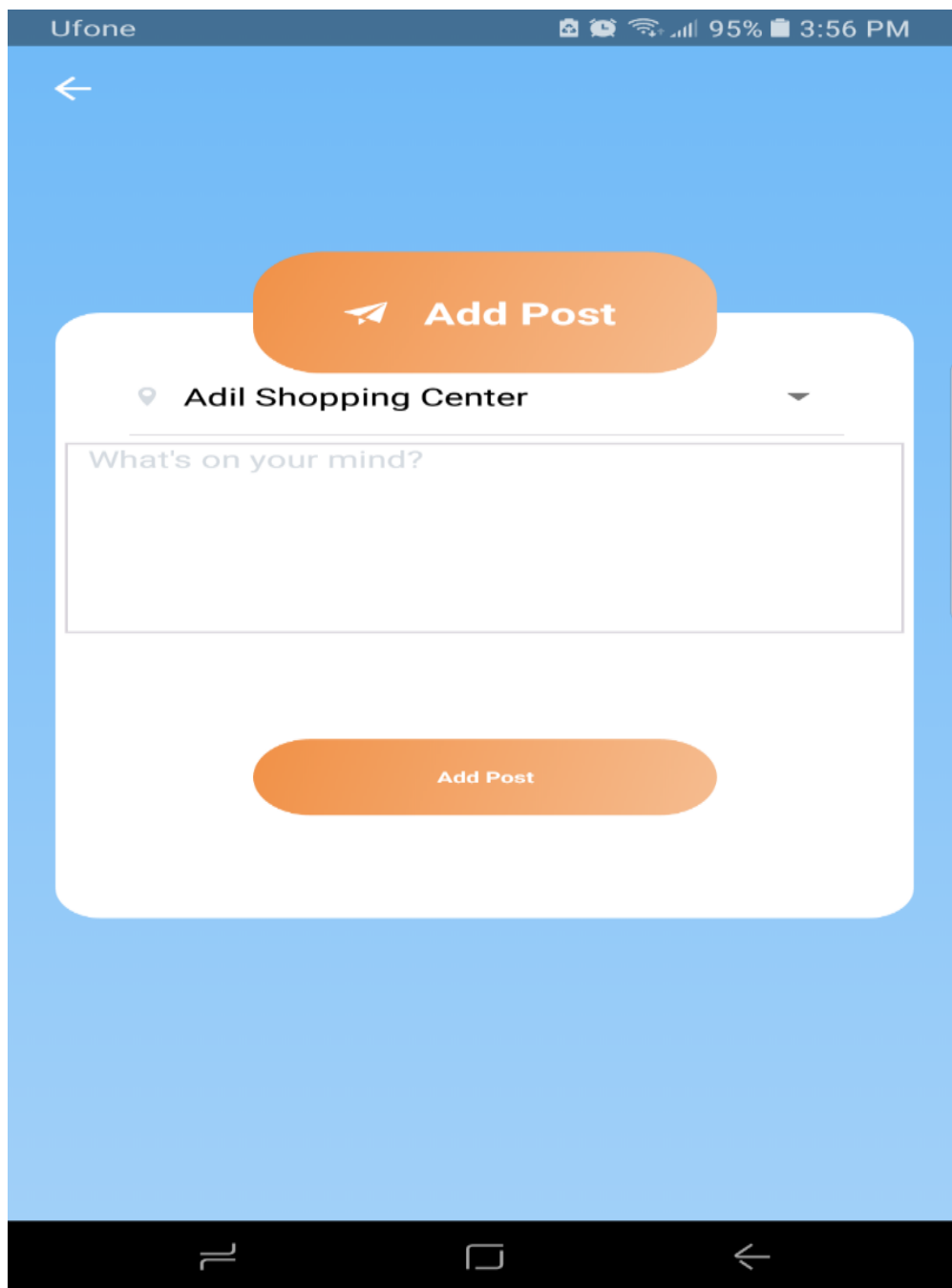


Figure # 6.5: Add Post

6.6. My Post Panel

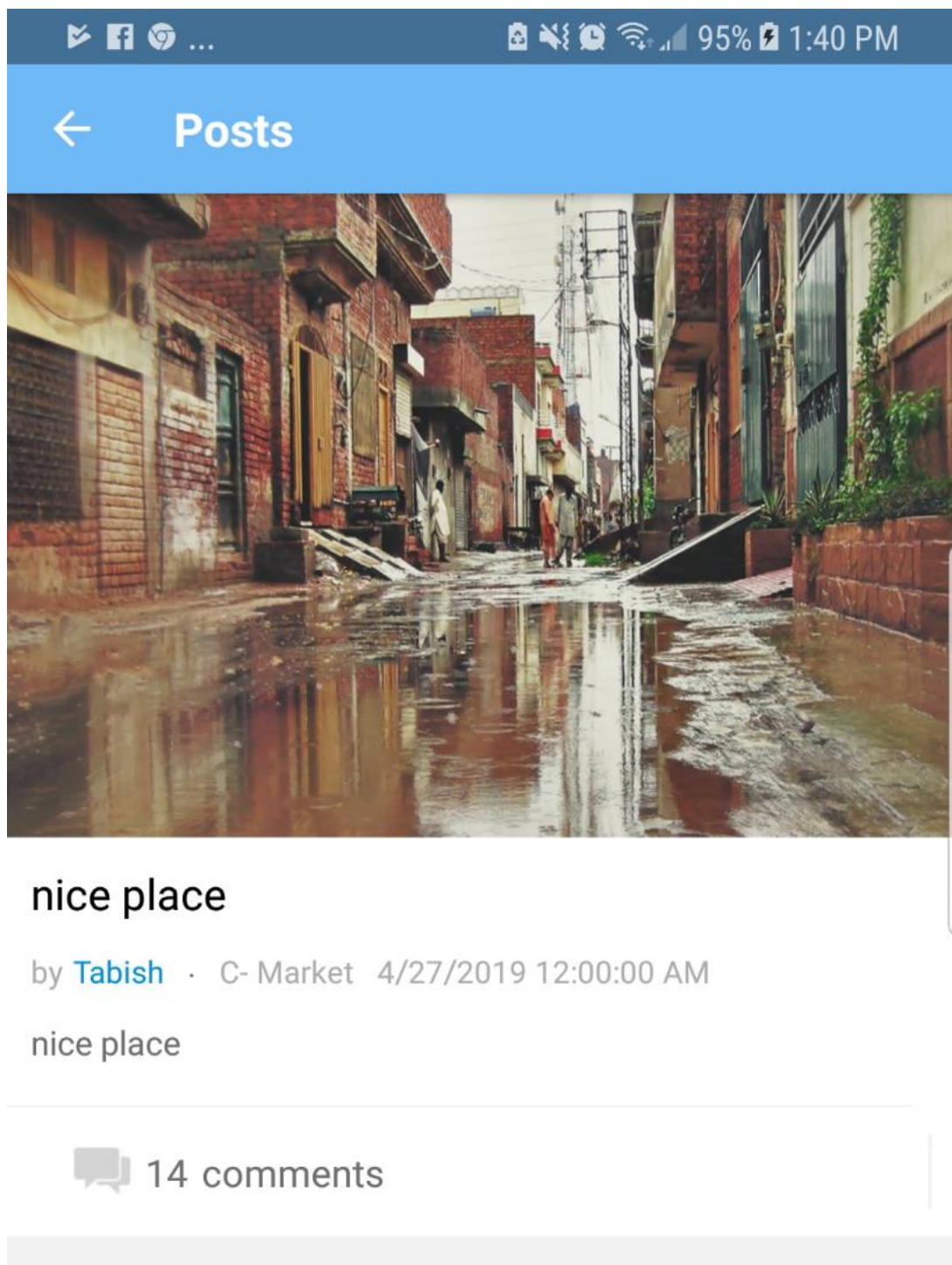


Figure # 6.6: My Post

6.7. Comments Panel

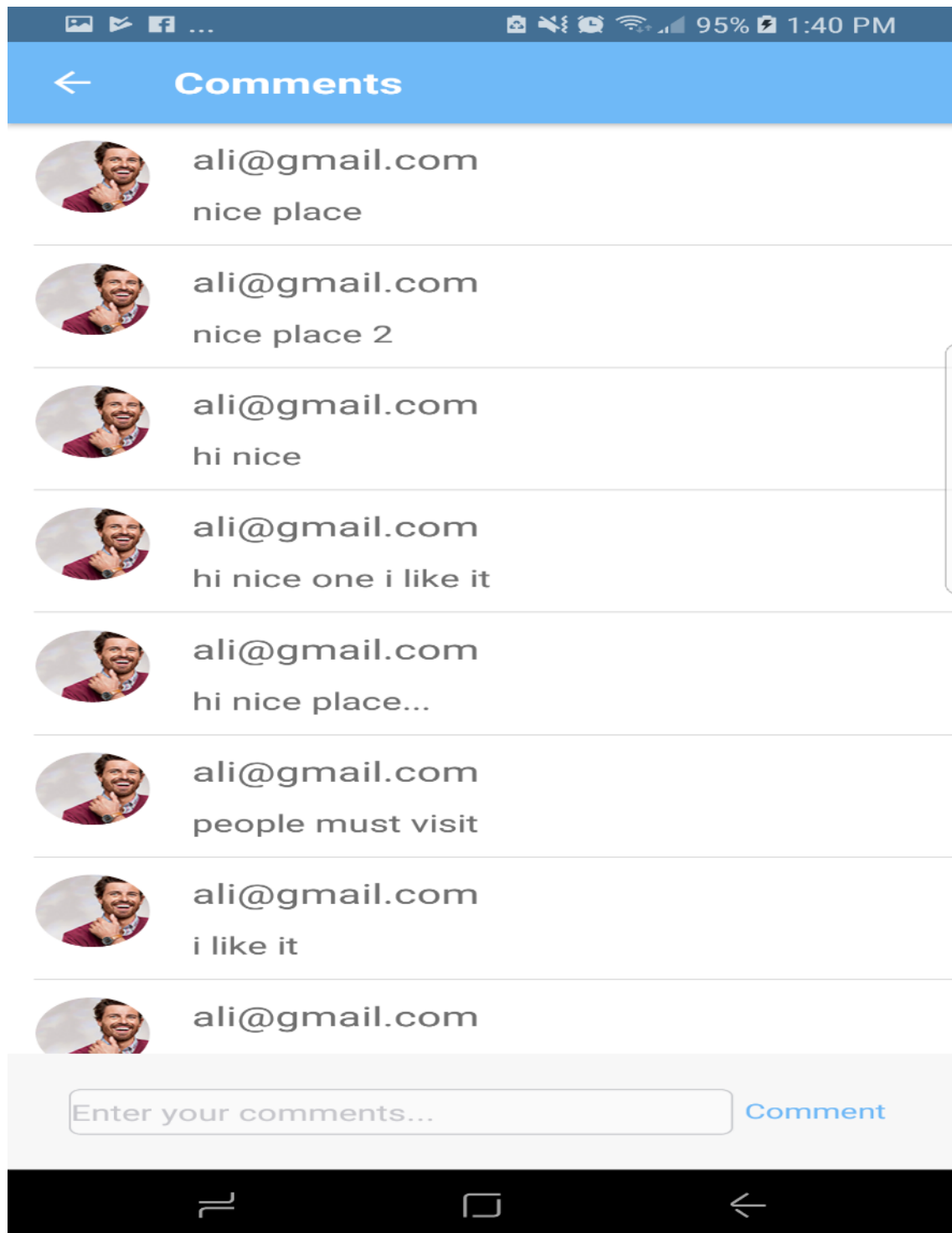


Figure # 6.7: Comment Panel

6.8. View Location

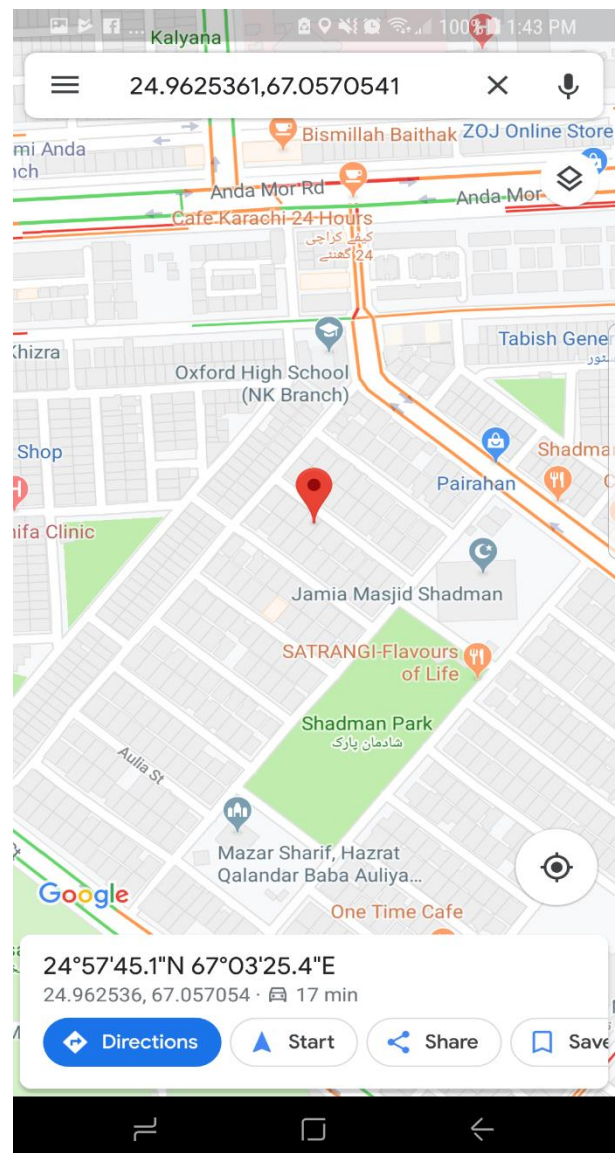
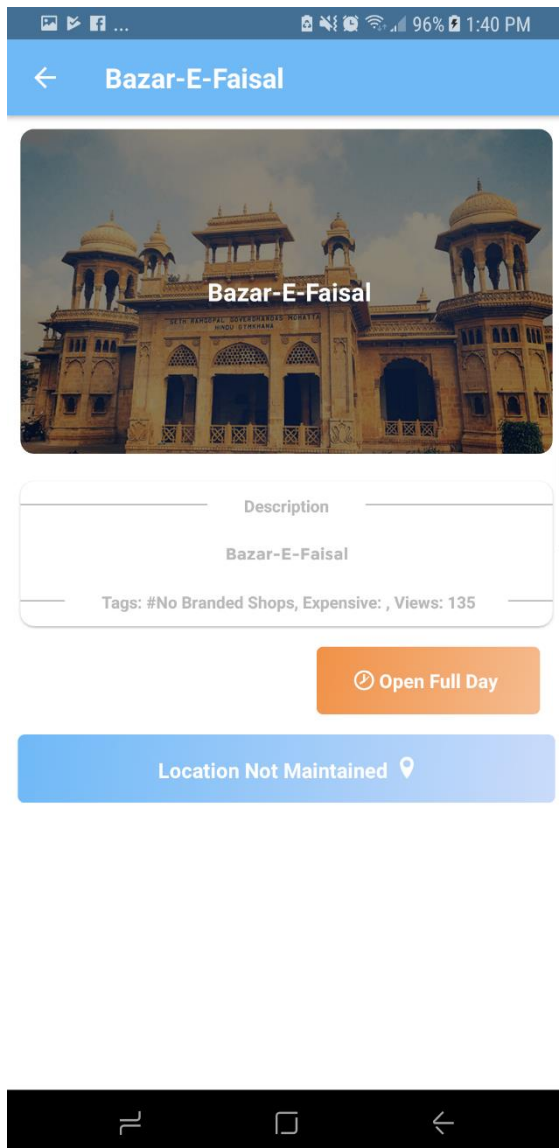


Figure # 6.8: Location

1. GUI of website (Marketing Website of our Product)

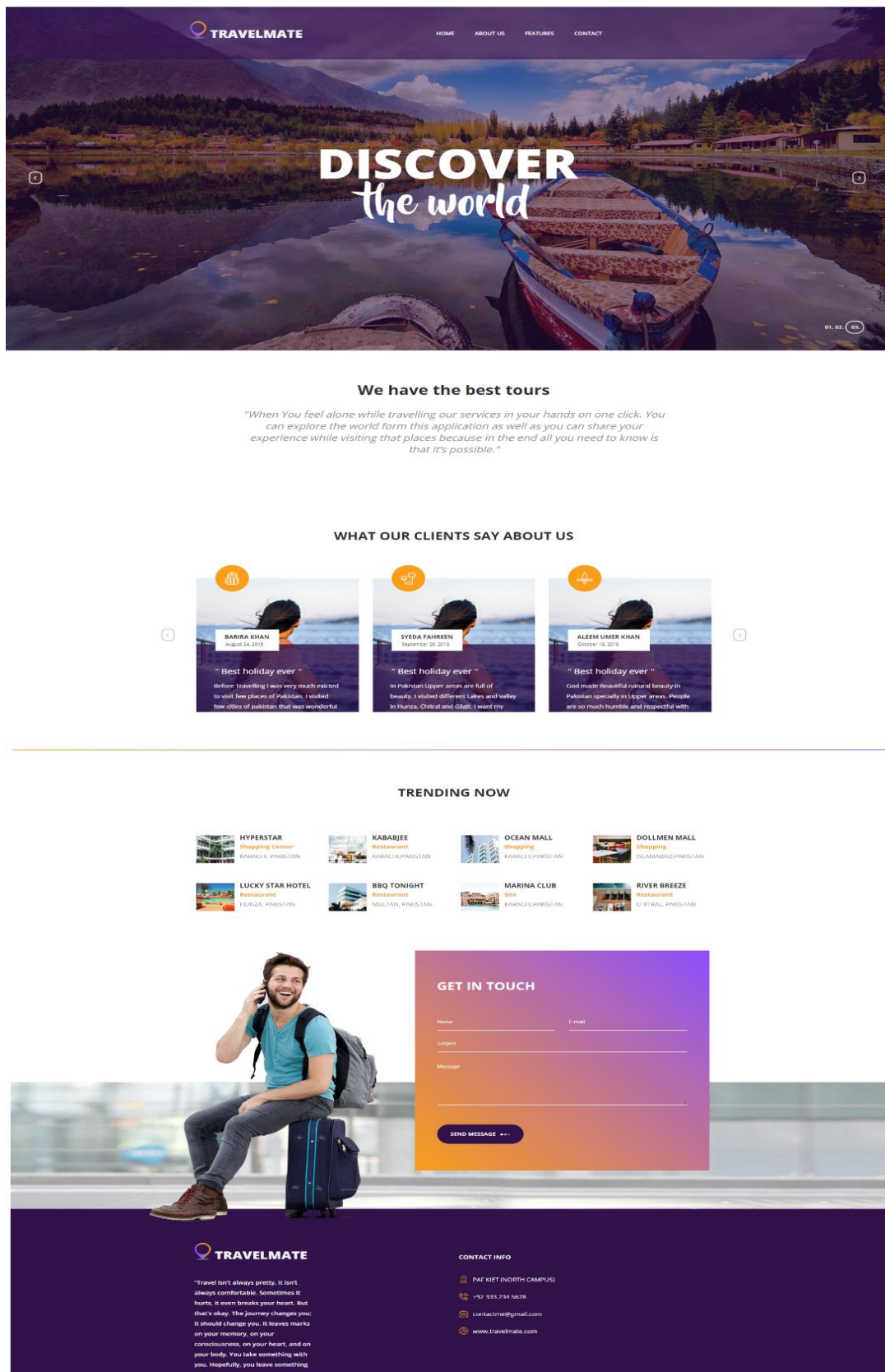


Figure # 7.1: Home Page of website

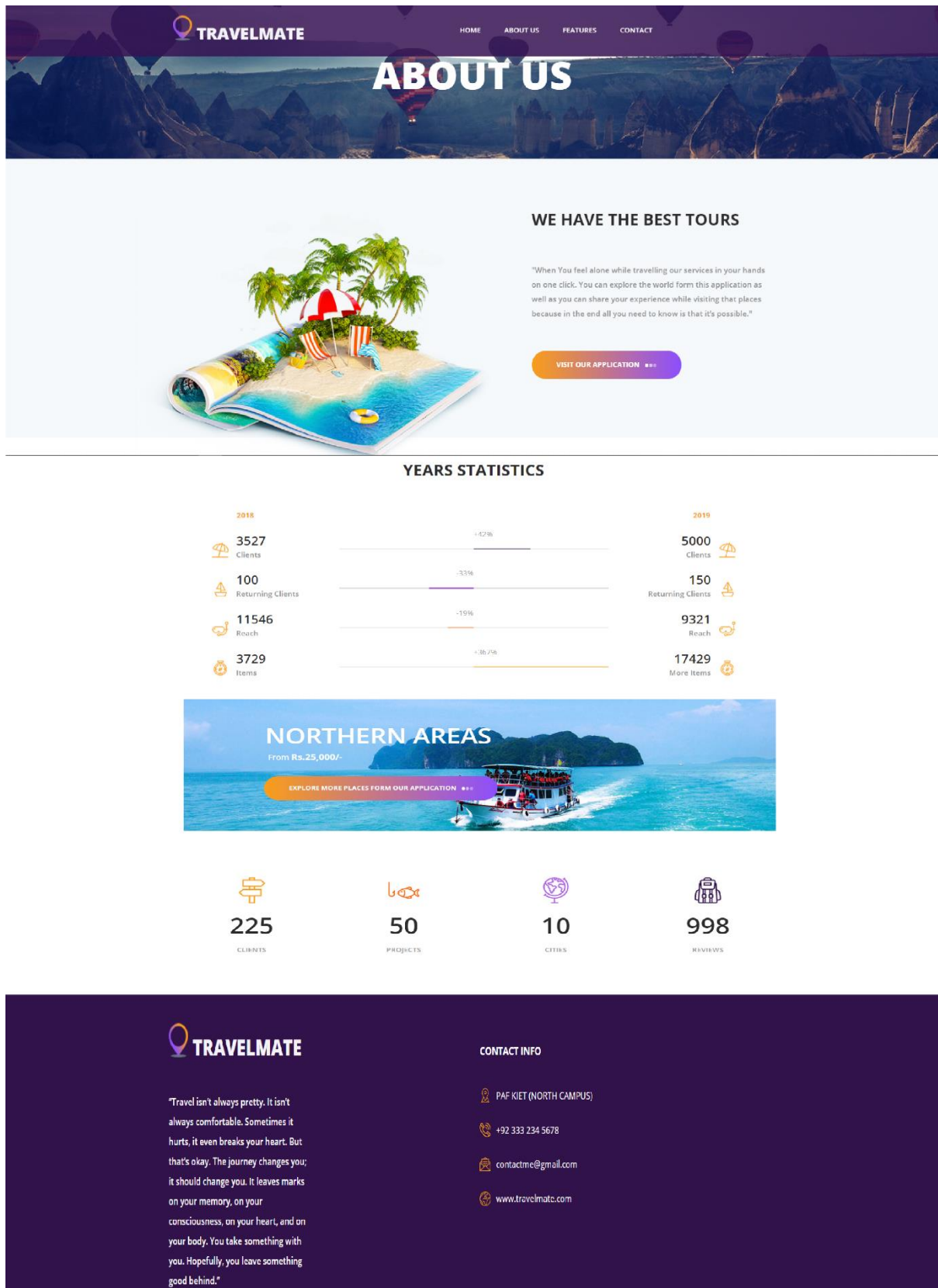
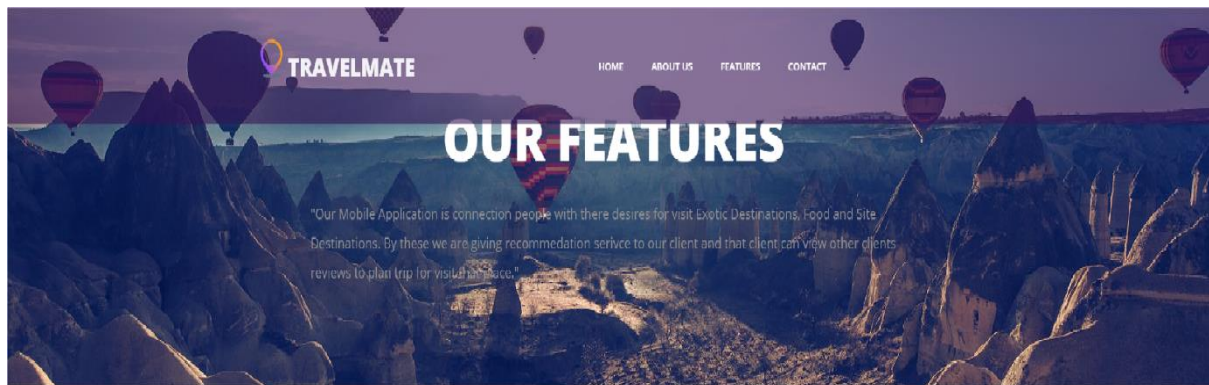


Figure # 7.2: About us Page of Website



THINGS TO DO



TRAVEL BEGIN
Pack your bags with your all things you required.



PLACES
As per your Interest



MOUNTAIN AREAS
Enjoy the Nature Beauty with Family and Friends.



BOATING
Enjoy Boating with family and Friends



SHOPPING PLACES
Famous Clothes as per there Culture and tradition



USER BLOGS
Traveller reviews of Users

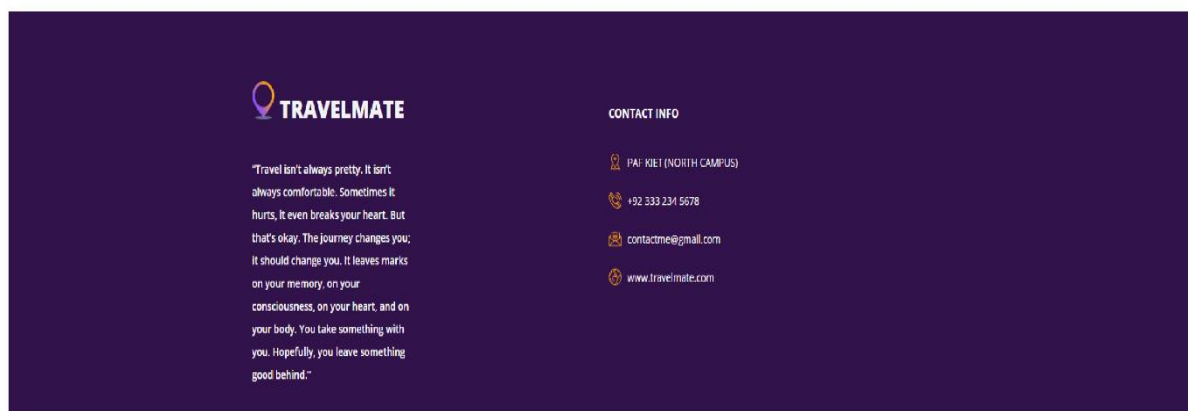


Figure # 7.3: Our Features of Website

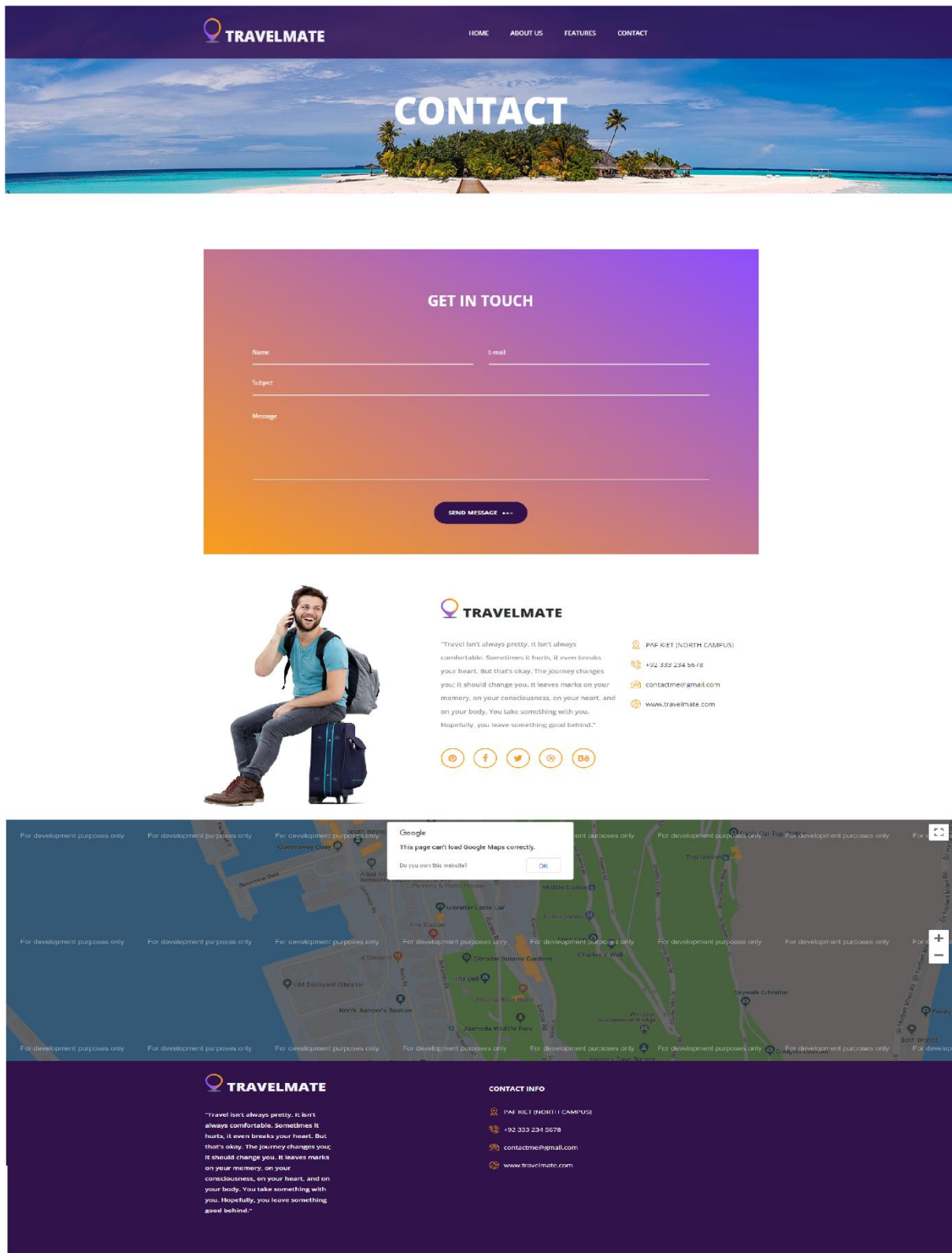


Figure # 7.4: Contact Us page of Website

CHAPTER 6

2. Conclusion and Remarks

2.1. Limitation

- This project is deployed locally not globally.

2.2. Conclusion

In conclusion, our developed android-based system allows the users (i.e. local people) to get on a single platform which is android based through where people can post their review about places they visit and by that review other user get the recommendation user according to their user profile.

2.3. Future Works

There is always a chance of improvement, following are the aspects where the system requires some time to be analyzed and modified

- Enhanced design quality.
- Add more cities
- Code structure improvement.
- Efficient functionality of the application.
- Make recommendation more generic

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