

Sohoj Travel: An Android Apps for ROAMING IMMENSE BEAUTY of BD
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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering.

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DAFFODIL INTERNATIONAL UNIVERSITY

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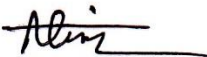
APPROVAL

This Project titled “**Sohoj Travel: An Android Apps for ROAMING IMMENSE BEAUTY of BD**”, submitted by **Palash Rajbongshi ID No: 183-15-11878** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 14th September 2022.

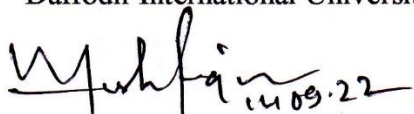
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I hereby declare that, this project has been done by me under the supervision of **Nazmun Nessa Moon, Associate Professor, Department of CSE**, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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I would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, I must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Peoples are used to being disappointed with daily doings after a certain period of time. To change up our mental and physical condition travel to various places is always the best option for every human being. As we use technology more than ever, people are going online to find any types of information and solution. Peoples are fond of travel everywhere all around the world. There are some basic classifications like a few likes' sea, some likes mountains, and some went for the falls or be in the Forest for the silence from the worlds and regain energy to be with the rhythm of the world with freshness. To travel choose a suitable place with sufficient time management and have necessary information with a proper clear concept is very important. To went somewhere security and safety is always our top priority. In my developed app “**Sohoj Travel**” there I had tried to include all necessary information like emergency contacts specially say so the nearby Police Station, Hospitals and Fire Service Stations contacts. With this information I had added Places to visit, there descriptions, Bus counter Information, Food and Restaurants details with locations.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

“Sohoj Travel” is an android based informative application. “Sohoj Travel” online platform which deals with essential information which peoples need for travel to any place. These application users can have an overall data about their destination like where they want to travel what is the best time to travel, which places could be add with the place they choose. Firstly, Users can choose a place then he or she can look up for hotels to stay on his/her visiting place. Secondly, they can collect bus counter details from here to book a bus seat. Finally, Users can travel the place happily and they can have details of famous food there as well with that they can have emergency contacts here, if necessary, along with that they can have the contact details of the a few bus counters of the area to contact and book return ticket. It helps to travel easily all over the country through the internet by using the apps.

1.2 Motivation

In the concurrent world, it is undoubtedly true that world is developing day by day, and so is everything that resides in it. Information technology has brought a complete change in modern life. A good number of peoples use android device. So, if they want to travel then didn't need to do a lot of things. They can search their destination and have details about what to do how to do so easily. I'm a travel freak. I had to search a lot to have proper information about any place. That's why I thought for an app which will solve these types of information related problem.

1.3 Objective

The primary goal of this system is to create a system for proper information. Some specific objectives should be implemented in order to achieve this goal effectively.

The following are the project's specific goals.

- ❖ To have proper information about the historical and beautiful places of our country.
- ❖ To reach nearby famous locations and foods.
- ❖ To have necessary contacts such as Police Stations, Hospitals, Fire Service Stations.
- ❖ To have bus counter contacts.
- ❖ To provide all important details easily online and offline.
- ❖ To save time.

1.4 Expected Outcome

User can save to many times to have details by using this system. travelers can also know their necessary transport and accommodation. As a result, User no need to contact s any travel agency to make plane for them which saves time and money

1.5 Report Layout

Chapter 1: Introduction

Motivation, goals and the predicted final results of the mission had been mentioned on this chapter. The record format has been stated with inside the remaining a part of this chapter.

Chapter-2: Background

Background instances of my assignment had been mentioned here. Related work, evaluating with different net sites, the scope of the hassle and demanding situations of the assignment are defined here.

Chapter-3: Requirement Specification

This bankruptcy discusses approximately the necessities. Business procedure modeling, the requirement series and analysis, the use case version of the undertaking with description, the logical relational database version and the layout necessities are the subjects of this bankruptcy.

Chapter-4: Design Specification

This financial ruin consists of all the designs of the project. These are Front-forestall format, back-forestall format, Interaction format and UX and the implementation requirements.

Chapter-5: Implementation Testing

Implementation of database, front-stop designs and interactions, trying out implementation, take a look at consequences and reviews are the contents of this chapter.

Chapter-6: Conclusion Future Scope

It is the remaining bankruptcy wherein end and destiny scope of the venture had been discussed.

CHAPTER 2

BACKGROUND STUDIES

2.1 Introduction

Android Based travel named “Sohoj Travel” is a platform where users can see information about destinations. Users can choose their holiday destination and plan up for a proper trip to remember. Usually in our busy schedules we often try to pay visit for our refreshment. On that note this app Sohoj Travel could be a easy and better solution.

2.2 Related Works

Sohoj Travel is a procedure that helps user to perform their best to travel easily. The user can easily have information then they could make their mind to what to do best. And there are like a few applications with same concept but there are lacking important information, in some projects there are missing details about bus contacts and somewhere there are lacking descriptions. I was really concerned to provide emergency data like Police Stations, Hospitals, Fire Service Stations which will help users a lot and make them interested to use this app.

This an application called Bangladesh VromonGuide[1]. In figure 2.1 and figure 2.2 is about this application



Figure 2.1: Bangladesh Vromon Guide (Dashboard)

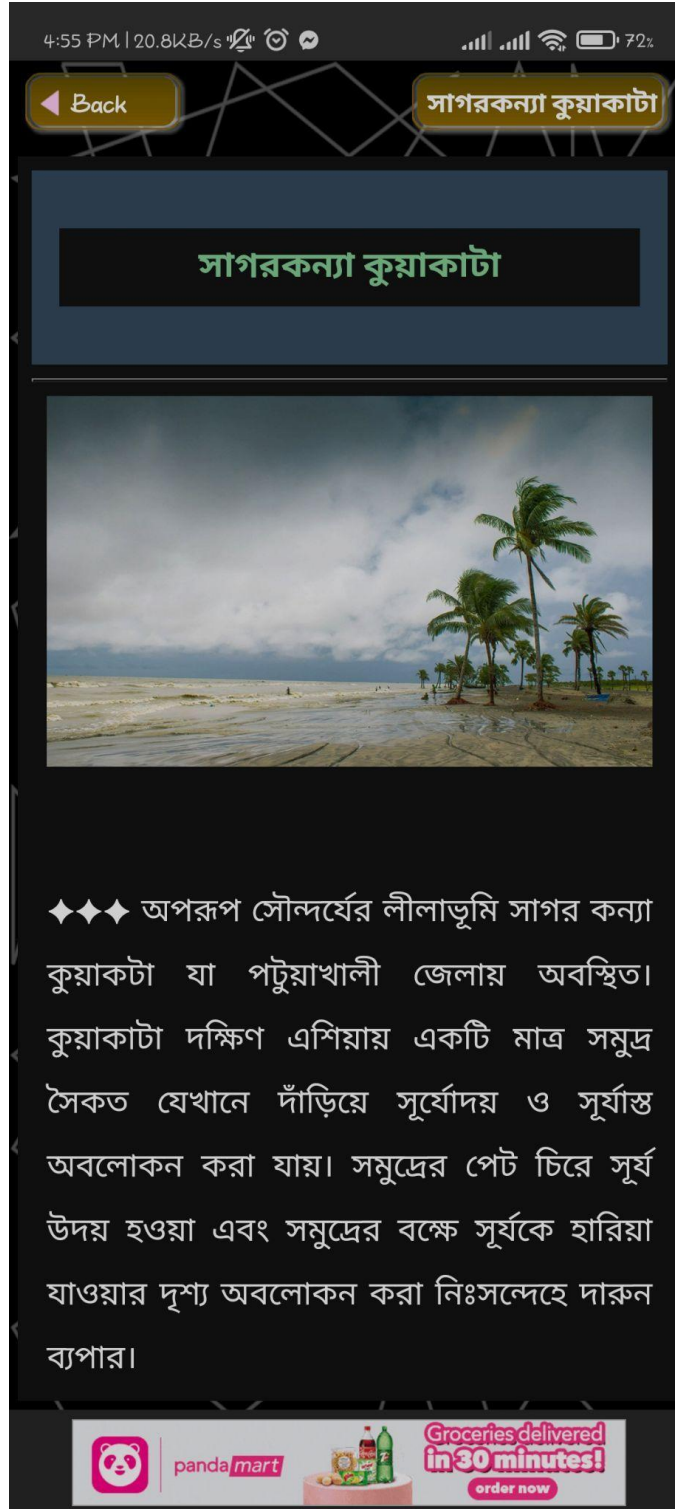


Figure 2.2: Bangladesh Vromon Guide (Kuakata)

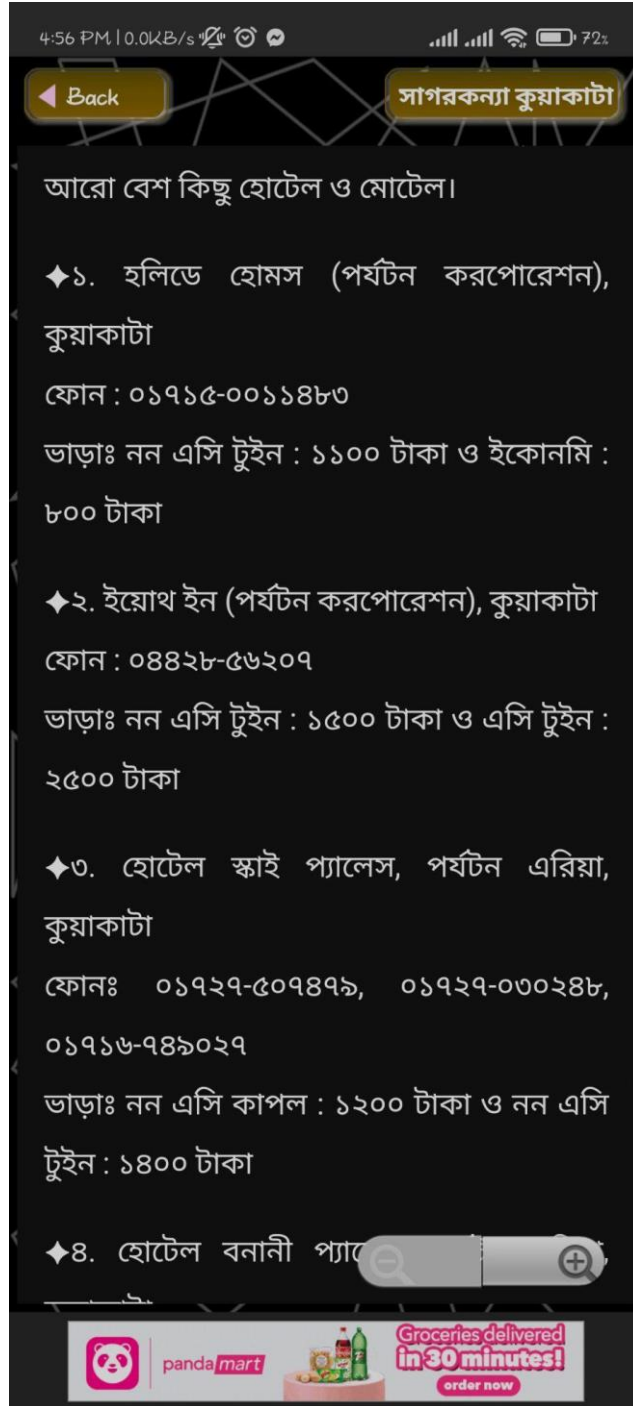


Figure 2.3: Bangladesh Vromon Guide (Kuakata)

Another application called Vroman Guide[2]. Their work is showing below in figure 2.3 to 2.7

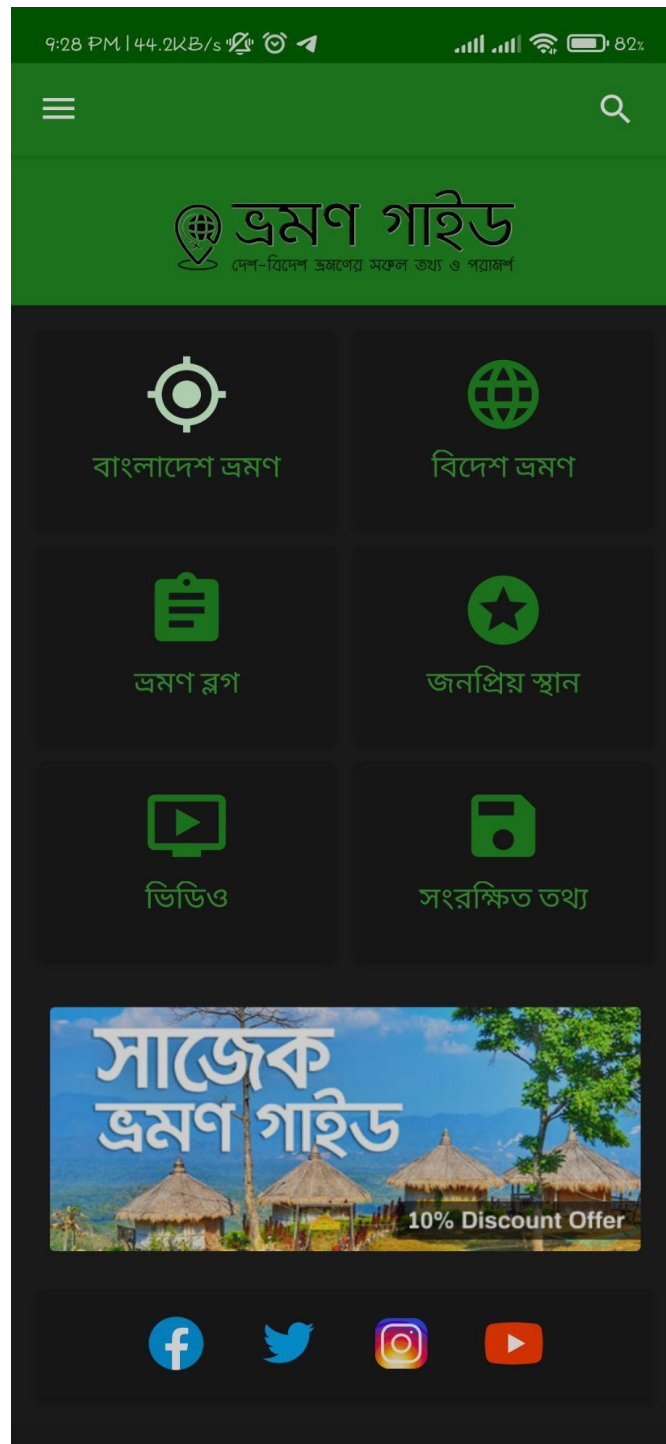


Figure 2.4: Vroman Guide (Dashboard)

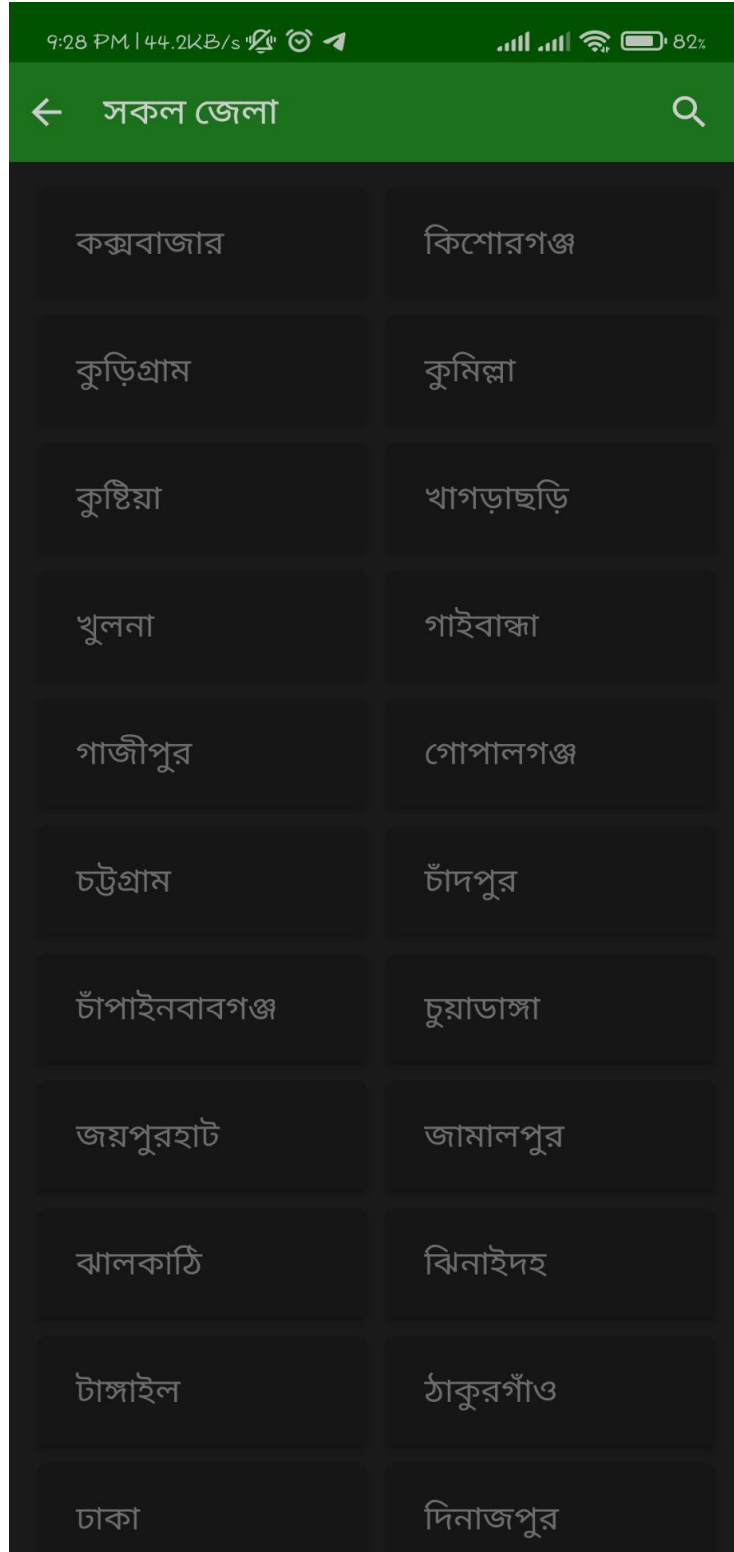


Figure 2.5: Vromon Guide (Districts List)

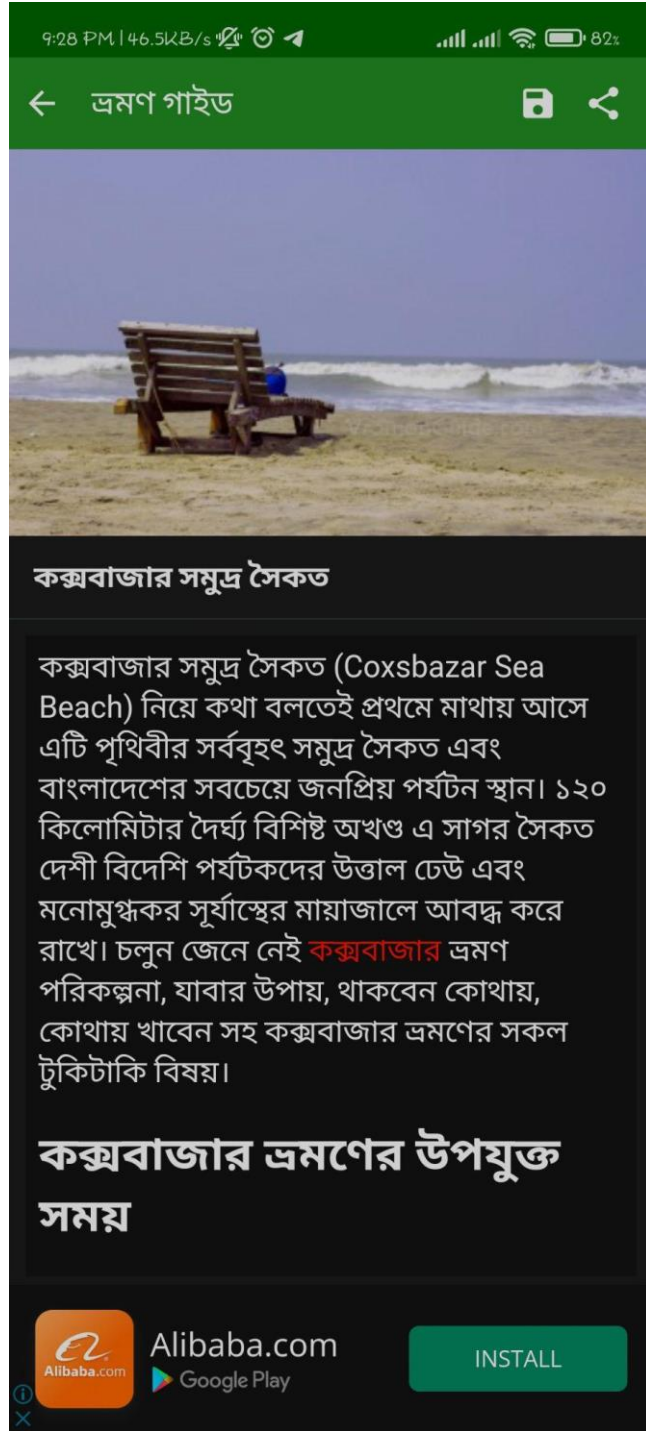


Figure 2.6: Vromon Guide (Cox's Bazar)

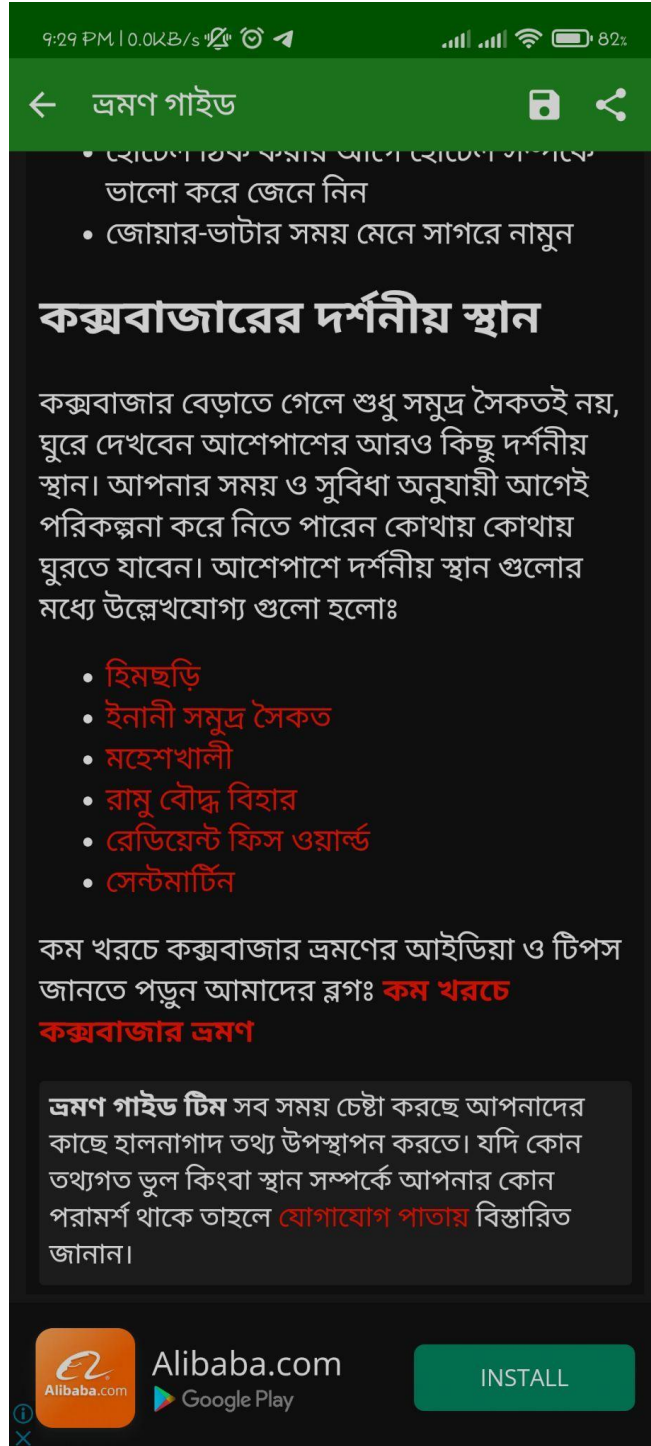


Figure 2.7: Vromon Guide (Cox's Bazar)

A famous entrepreneur and founder of 10-minute school Ayman Sadiq has also written a book introducing the places of Bangladesh and local foods of all 64 districts[3]. But there are only names of the places there is no description about the places or any important information without foods and activities along with that. The cover picture of his book is shown below in figure 2.8.

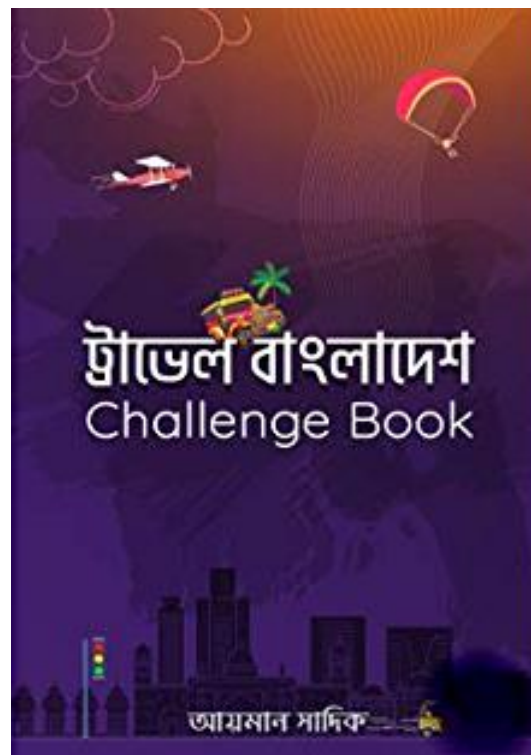


Figure 2.8: Travel Bangladesh a travel book by Ayman Sadiq

2.3 Comparative Studies

When I look and google search for find other application on traveling. I noticed that the most of the applications are using similar system and most of the application are not user friendly and there are lacking of emergency contacts like hospitals and bus counter contact. This application is not easily accessible for the users. I weighed my project with others applications in this field. Comparatively, my project is more useful than other applications on traveling field. I am updating my application system to add more unique features soon. My desire is my application will help more the travelers then other applications.

2.4 Scope of the Problem

Different types of problems were faced on the development of this application. I researched on the travelers about what is their demands. I try to observe every point of the way for helping the tourists. I tried to make my project more useful, so that who they wants to explore Bangladesh can easily and quickly use this application during users necessity. I choose PHP language for developing the Admin of the application because they are easy to handle for development. I used android studio software and also used Mysql database for storing the data of the application.

2.5 Challenges

I was doing the project alone and I had to collect a huge amount of data it was tough describing below:

- Collecting data from google and websites of various company was tough.
- Handling huge data using Mysql was really very tough for me.
- Bus companies often switch their employees so it's hard to reach every single supervisor.
- Collecting the description and photos of the places is a huge challenge.
- Instability of prices makes hassle to give idea about pricing of the location in descriptions.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Use Case Modeling and Description

Here is the use case model of our system. In this diagram, I have shown the working process. At first users can view categories, after selecting category, users can view products. In the view products section users can add to cart products for comparison. Admin has lots of work, always update category and products. Which is shown in the Figure 3.1.

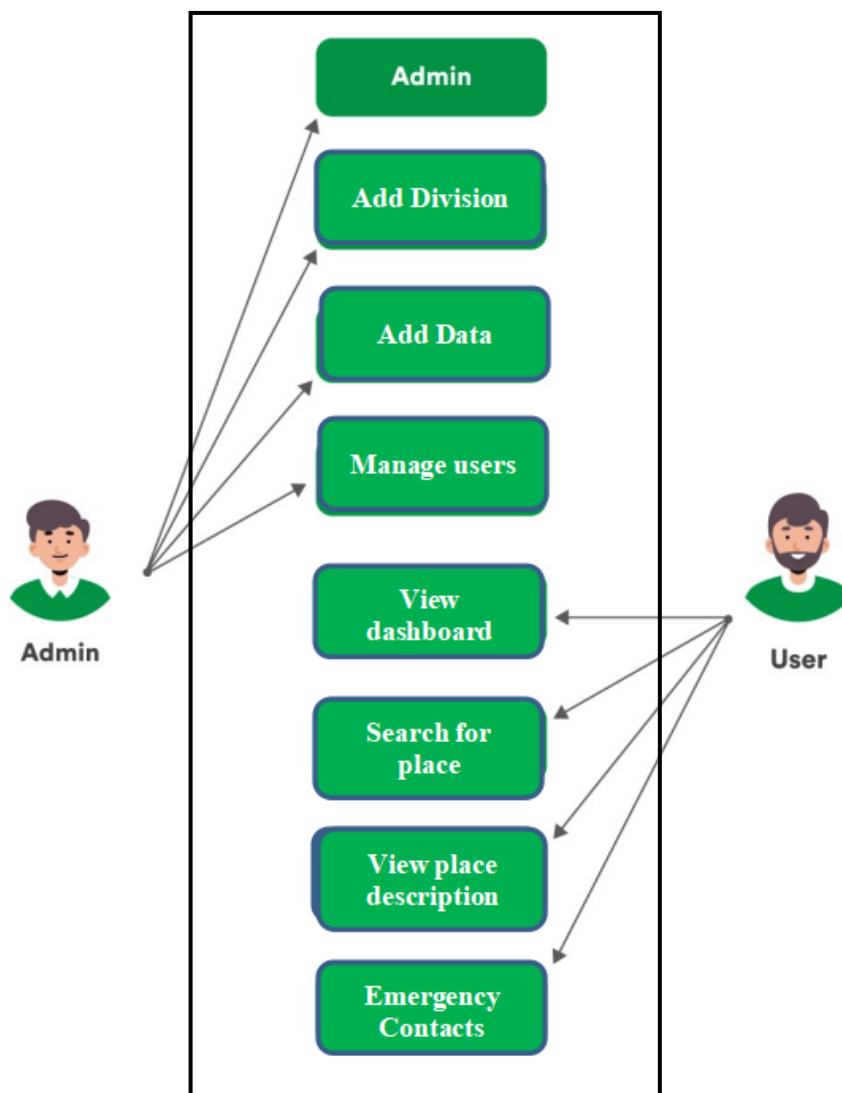


Figure 3.1 Use Case Diagram

3.2 Workflow

Initially the methodology is when someone will decide to travel somewhere then they will enter into my application then he will be in the dashboard where he will find name of the division and then he will choose the division and then the application will show the districts of that particular division. Then he can choose any district's options like Places, Bus Stop, Hospital, Help Contacts. He can choose his necessary button and went to the details of that particular sector. It's figure is shown in figure 3.2.

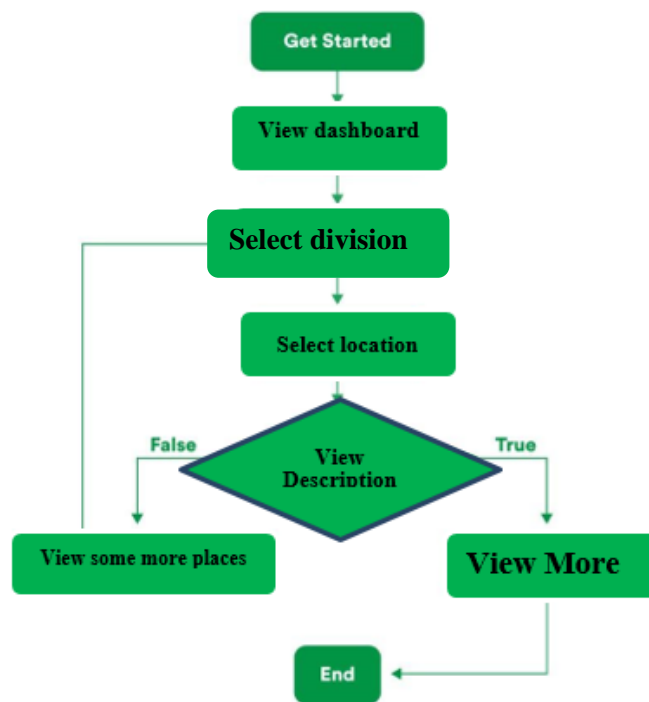


Figure 3.2: Workflow diagram

3.3 Logical Data Model

The logical data model is one kind of relational table. That is table with different entities. Here I have some relational table like User, Division, Districts, Places. The table has some attributes like view data, Fill Review, places description, division list, district list. The whole logical model is shown in the Figure 3.3.

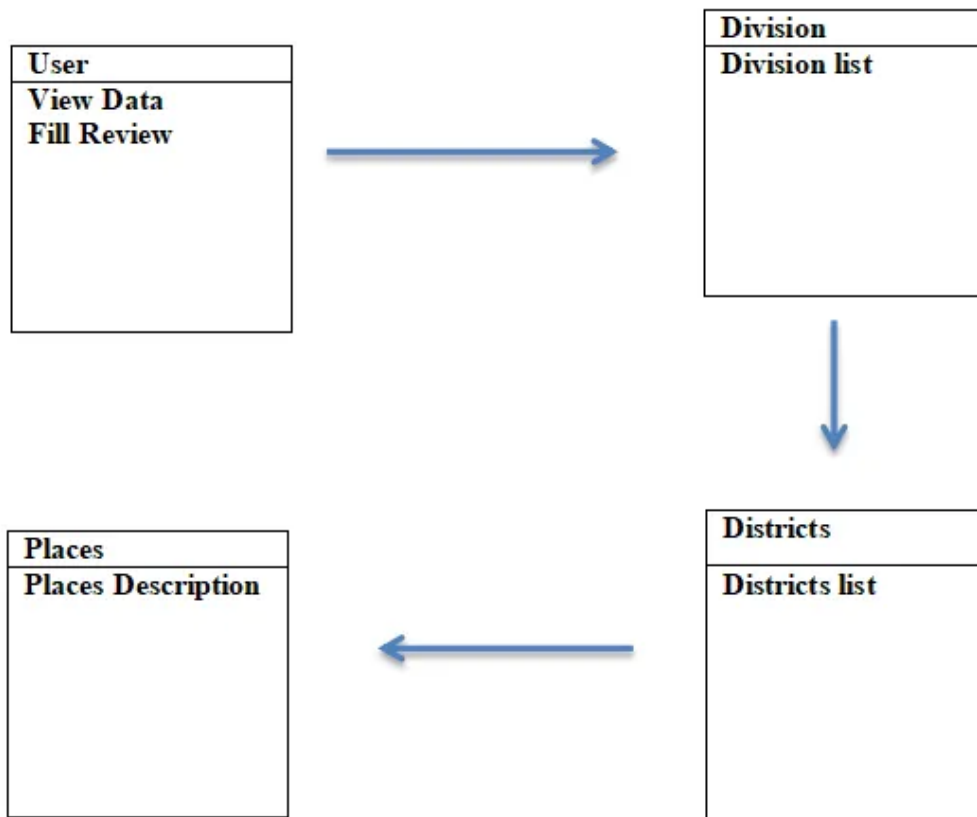


Figure 3.3: Logical Data Model

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

A mobile application's front-end design is incredibly significant. It's recognized because of the program (UI) (user interface). With this UI, a user can easily evaluate what form of the app it's. Furthermore, the computer program is the most noticeable aspect of any application. The front-end design is accessible to users. Front-end design refers to the section formed by front-end developers. The side refers to everything a user sees on a smartphone device, including the planning. The interface of a mobile app is just what the user sees. The term "user experience" or "UX"; the side is where the user can interact with this stuff. Understanding and being proficient in design is a crucial part of that. Unfortunately, genuinely comprehending front-end design is more difficult than it appears. The skill sets required for coding and aesthetic design are somewhat different. As a result, some front-end developers aren't as skilled in the design part as they should be, and their work suffers as a result. I have to spend a lot of effort into designing our front-end design as a beginner. I need to study a variety of subjects, feature of an android application.

4.2 Get Start

This is the first page of my android application “Sohoj Travel”. There is a button for going to the main application which name is “Get Start Button”. It’s on figure 4.1.

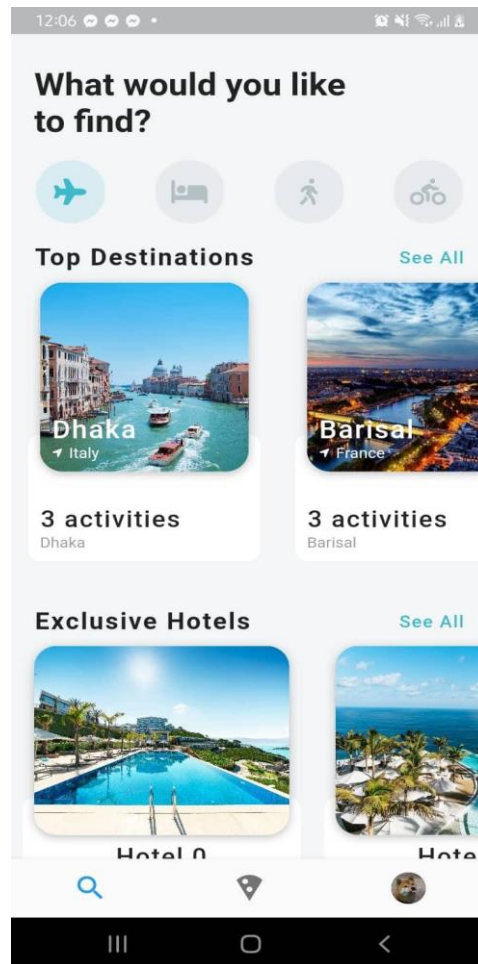


Figure 4.1: Get Started

4.2.1 Dashboard

A dashboard is a type of graphical user interface which often provides at-a-glance views of key performance indicators relevant to a particular objective or business process. The dashboard is the main focusing factor for the users. Users stay on the dashboard page most of the time using the application. On the dashboard, there is a poster of discounts on the super shop. Below the poster, there are categories of the products. A compare button is visible for going to the comparison page. The figure 4.2 is about that.

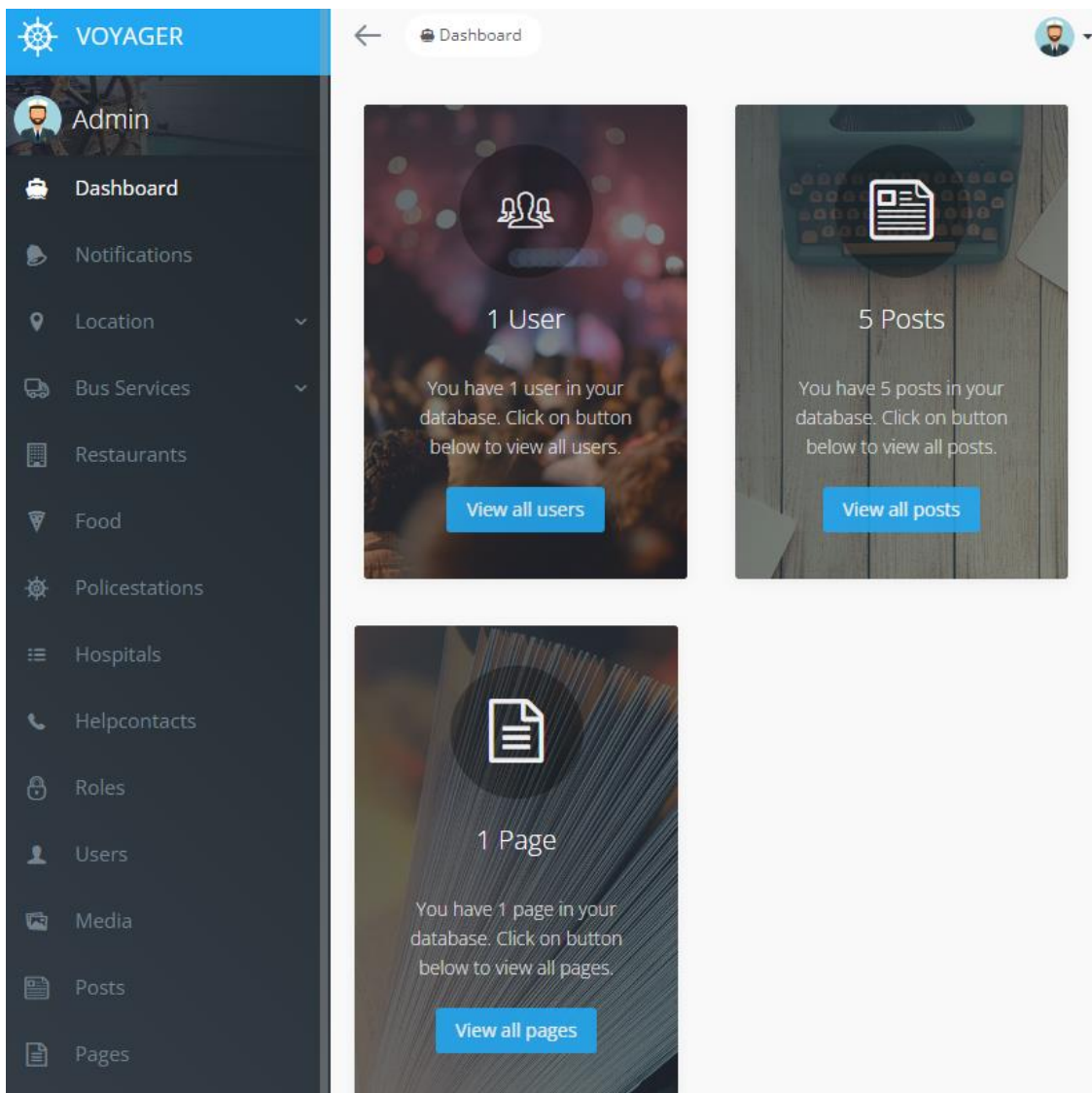


Figure 4.2: Dashboard

4.2.2 Divisions

A product is any item or service you sell to serve a customer's need or want. By selecting a category user can go to the products page. Users can add to the cart for comparison. There is lots of products for comparison. It's in the figure 4.3.

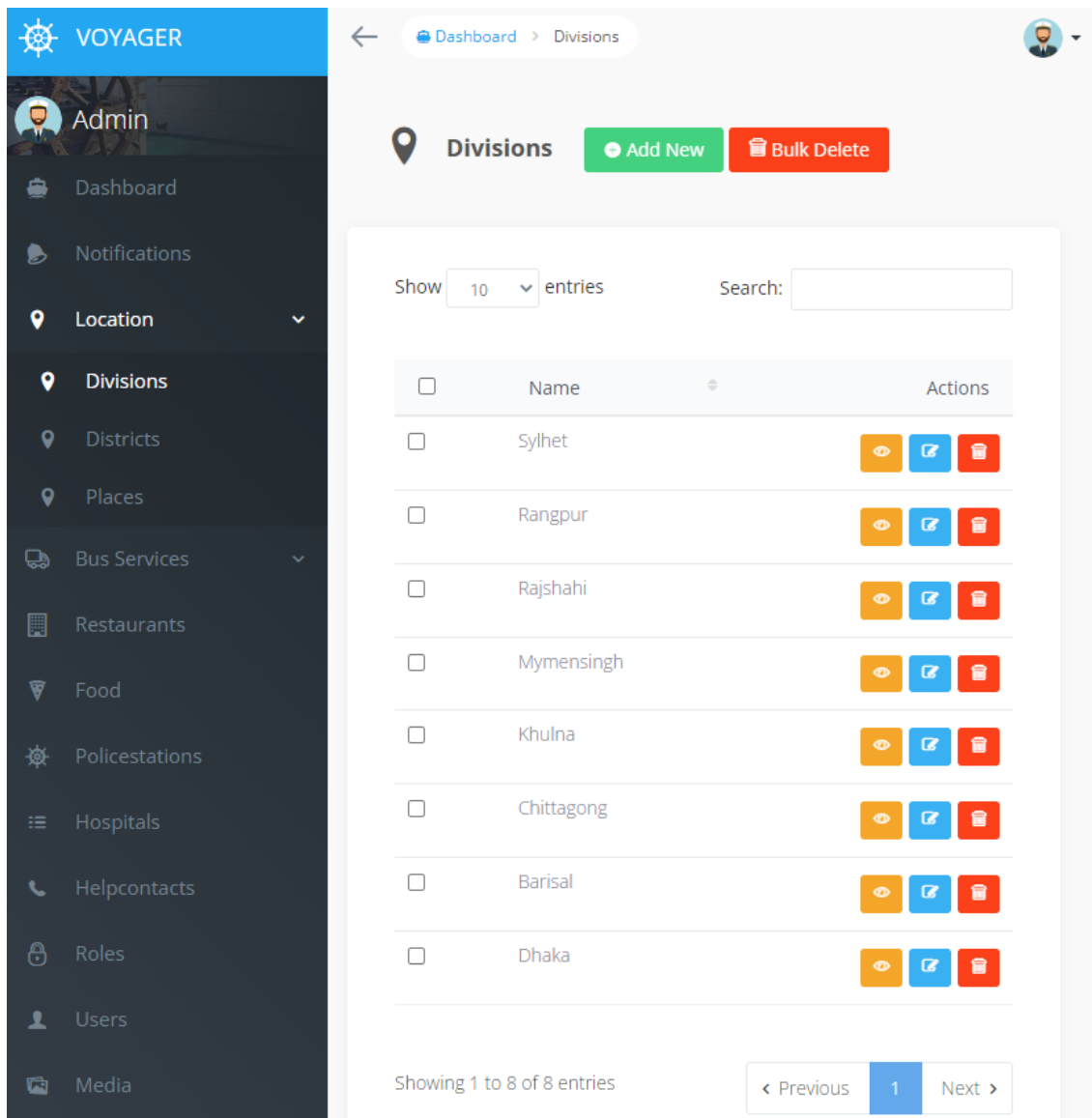


Figure 4.3: Divisions

4.2.3 Districts

This is our expected page, where I will get the comparison of the super shop products' prices. Based on the comparison results, I can buy products at very low prices. The figure 4.4 has shown the methodology of adding districts.

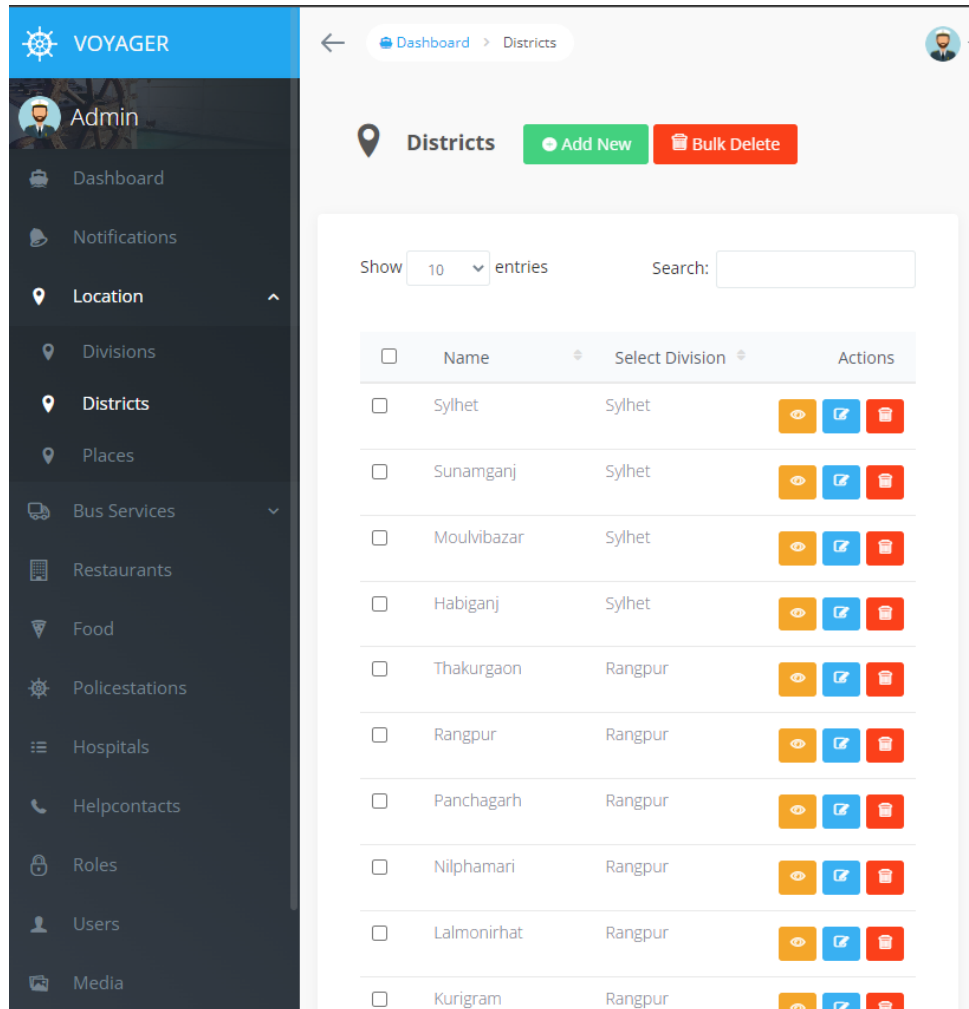


Figure 4.4: Districts

4.3 Back-end Design

The back end is the most important component of the system. The front end is the client side that the client sees or accesses. The server side refers to the back end of a website. We used the PHP framework as well as AJAX. PHP framework is a library that is used to provide a basic foundation for PHP web application development. The goal of implementing AJAX is to make our system site fast and dynamic. AJAX allows a webpage to be updated behind the scenes by exchanging small amounts of data with the server. So that a portion of the web page could be updated without having to reload the entire page. The main benefit of using AJAX is that the applications built with it are browser and platform-independent. Our database server is powered by MySQL. We chose MySQL because it is fast, dependable, and simple to use. A preview is shown below in figure 4.5 and 4.6.

```
getDist() async {  
  
    print("get Dist Called");  
    try{  
  
        http.Response response = await http.get(  
            Uri.tryParse('https://tour.soft-itbd.com/api/division/${id.value}')!);  
  
        print("the uri: https://tour.soft-itbd.com/api/division/${id.value}");  
        if(response.statusCode == 200){  
            //data successfully  
  
            var result = jsonDecode(response.body);  
  
            //user_model = User_Model.fromJson(result);  
  
            dist.value = SingleDiv.fromMap(result);  
  
            print(" ${dist.value!.division!.districts![0].name}");  
            print("District");  
        }else{  
            print("district error");  
        }  
    }catch(e){  
  
        print('Error while getting data is $e');  
    }finally{  
  
    }  
}
```

Figure 4.5: Back-End Coding


```

getApi() async {
  try{

    http.Response response = await http.get(
      Uri.tryParse('https://tour.soft-itbd.com/api/divisions')!
    );
    if(response.statusCode == 200){
      ///data successfully

      var result = jsonDecode(response.body);

      //user_model = User_Model.fromJson(result);

      divs.value = Division.fromMap(result);

      print("${divs.value!.divisions![2].name}");
    }else{
      ///error
    }
  }catch(e){

    print('Error while getting data is $e');
  }finally{

  }
}

```

Figure 4.6: Back-End Coding

4.4 Interaction Design and User Experience (UX)

Interaction design is one of the best important parts of the android application. It's the user process and reconnects. It requires some aspects to manage and present easily. Like as buttons, Icons, language etc. So that it can be used well and easy to understand. I am able to find that a simple UX design has been used in this application. So, our application design is easy. The following figure 4.3.1 is given below Interaction Design and UX.

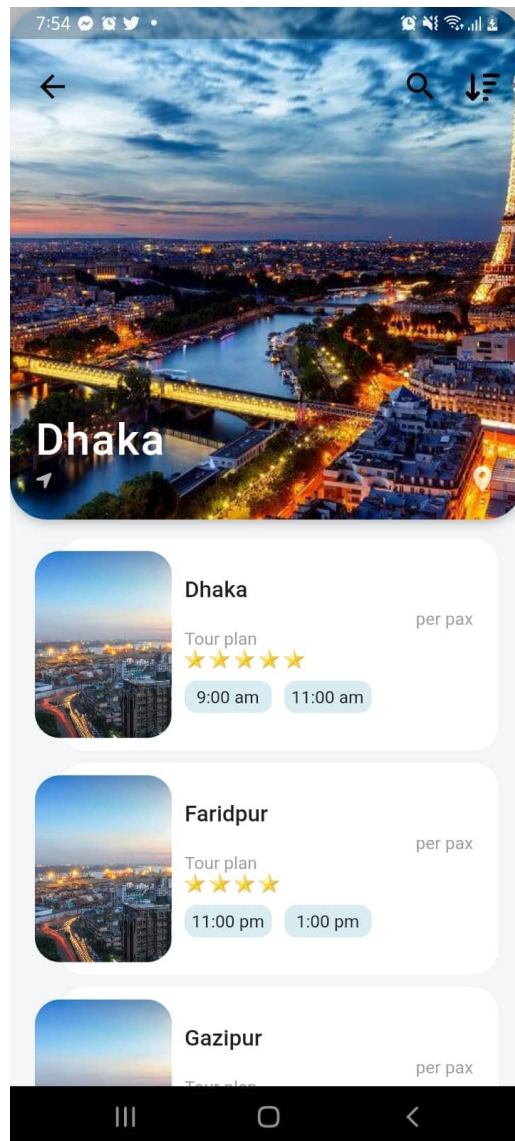


Figure: 4.7 screenshots of UI

4.5 Implementation Requirements

It was our first application, so I learned something new about technology. So, I spend a lot of time getting the application. There is a lot to think about to make the UX design.

4.5.1 Front-End:

- Flutter
- JavaScript
- CSS

4.5.2 Database:

- SQLite
- Mysql

4.5.3 IDE:

- Android Studio

4.6 Latitude and Longitude Table of Districts

In my application I was working with all the districts of Bangladesh. I had to find all the latitude and longitude of 64 districts of Bangladesh. I use Google to find out the values of the districts and stored them in a excel sheet. Below here in table 4.1 the details latitude and longitude. There is four columns 1st column is for division, 2nd one represents the name of the district, 3rd and 4th one is accordingly latitude and longitude of the districts. The details are in below table 4.1.

Table 4.1: Latitude and Longitude

Division	District	Latitude	Longitude
Barisal	Barguna	22.0953° N	90.1121° E
	Barisal	22.7010° N	90.3535° E
	Bhola	22.1785° N	90.7101° E
	Jhalokati	22.5721° N	90.1870° E
	Patuakhali	22.3586° N	90.3317° E
	Pirojpur	22.5791° N	89.9759° E
Chittagong	Bandarban	22.1936° N	92.2187° E
	Brahmanbaria	23.9675° N	91.1119° E
	Chandpur	23.2321° N	90.6631° E
	Chittagong	22.3569° N	91.7832° E
	Comilla	23.4607° N	91.1809° E
	Cox's Bazar	21.4272° N	92.0058° E
	Feni	23.0159° N	91.3976° E
	Khagrachhari	23.1117° N	91.9888° E

	Lakshmipur	22.9447° N	90.8282° E
	Noakhali	22.8246° N	91.1017° E
	Rangamati	22.6533° N	92.1789° E
Dhaka	Dhaka	23.8103° N	90.4125° E
	Faridpur	23.6019° N	89.8333° E
	Gazipur	23.9999° N	90.4203° E
	Gopalganj	26.4832° N	84.4366° E
	Kishoreganj	24.4331° N	90.7866° E
	Madaripur	23.1649° N	90.1940° E
	Manikganj	23.8644° N	90.0047° E
	Munshiganj	23.5422° N	90.5305° E
	Narayanganj	23.6238° N	90.5000° E
	Narsingdi	23.9193° N	90.7176° E
	Rajbari	23.7639° N	89.6467° E
	Shariatpur	23.2197° N	90.3501° E
	Tangail	24.2513° N	89.9167° E
Khulna	Bagerhat	22.6602° N	89.7895° E
	Chuadanga	23.6418° N	88.8577° E
	Jessore	23.1634° N	89.2182° E
	Jhenaidah	23.5528° N	89.1754° E
	Khulna	22.8456° N	89.5403° E
	Kushtia	23.9088° N	89.1220° E
	Magura	23.4855° N	89.4198° E

	Meherpur	23.8052° N	88.6724° E
	Narail	23.1163° N	89.5840° E
	Satkhira	22.3155° N	89.1115° E
Mymensingh	Jamalpur	24.9250° N	89.9463° E
	Mymensingh	24.7471° N	90.4203° E
	Netrokona	24.8817° N	90.7271° E
	Sherpur	25.0746° N	90.1495° E
Rajshahi	Bogra	24.8481° N	89.3730° E
	Joypurhat	25.0968° N	89.0227° E
	Naogaon	24.7936° N	88.9318° E
	Natore	24.4079° N	88.9749° E
	Chapai	24.7413° N	88.2912° E
	Nawabganj		
	Pabna	24.0129° N	89.2591° E
	Rajshahi	24.3745° N	88.6042° E
Sirajganj	24.4526° N	89.6816° E	
Rangpur	Dinajpur	25.6279° N	88.6332° E
	Gaibandha	25.3290° N	89.5415° E
	Kurigram	25.8103° N	89.6487° E
	Lalmonirhat	25.9923° N	89.2847° E
	Nilphamari	25.9363° N	88.8407° E
	Panchagarh	26.3354° N	88.5517° E

	Rangpur	25.7439° N	89.2752° E
	Thakurgaon	26.0274° N	88.4646° E
Sylhet	Habiganj	24.3840° N	91.4169° E
	Moulvibazar	24.4843° N	91.7685° E
	Sunamganj	25.0667° N	91.4072° E
	Sylhet	24.8949° N	91.8687° E

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Most crucial a part of this task became database designing, where I like to keep users records like name, contacts etc. I created a database and stored records in Mysql to put in writing and fetch records in our application. The program has been used for having details informations of places of Bangladesh.

5.2 Implementation of Front-End Design

To implement the android based application, I used Flutter framework for designing this application. For storing application's data I used Mysql database in the firebase website. Here I am giving a few sample screenshots of my application. The first page of this application is the Dashboard page that is shown below in figure 5.1 and till figure 5.6.

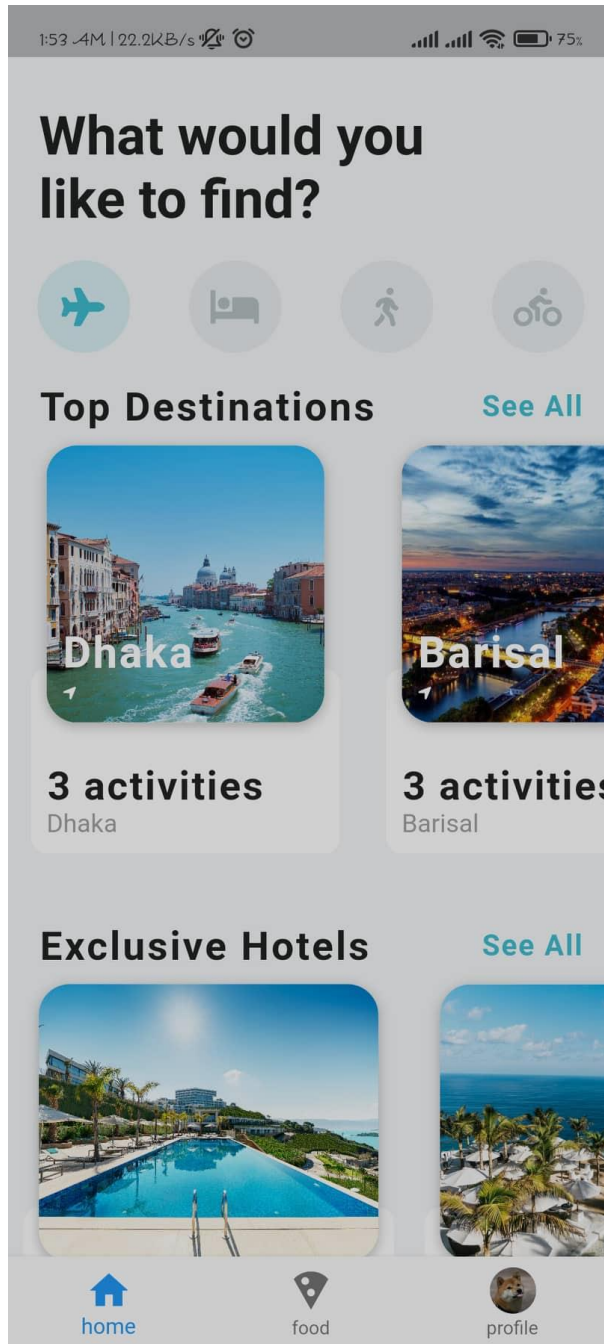


Figure 5.1: List of Divisions

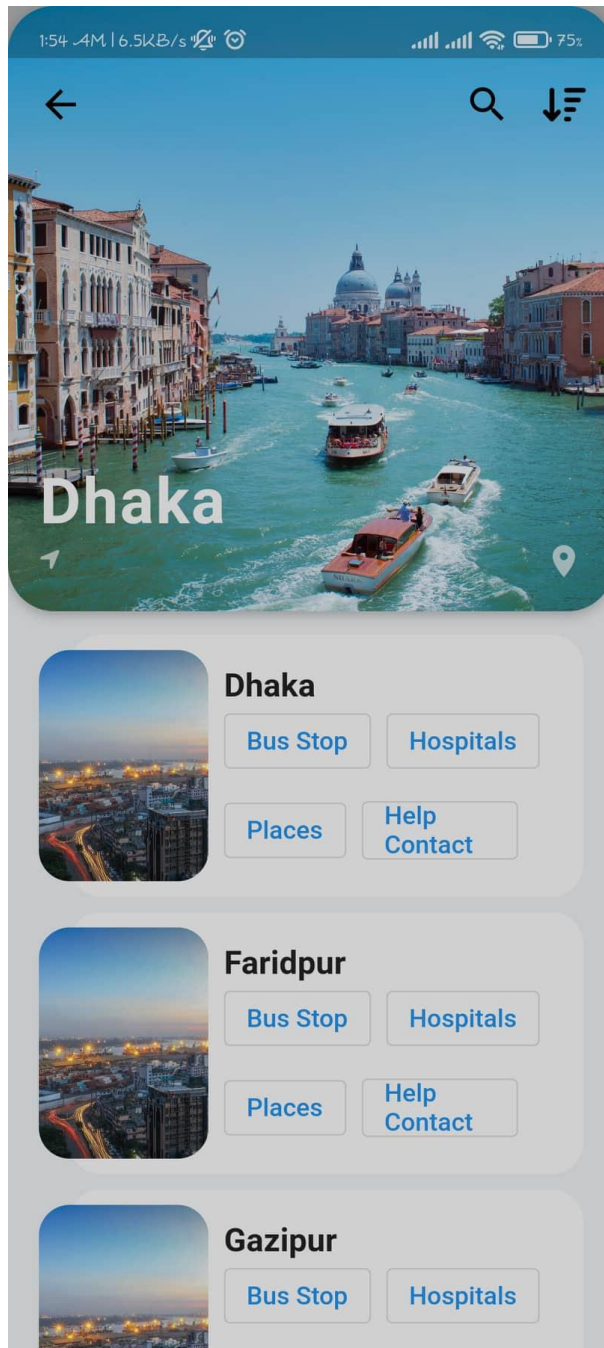


Figure 5.2: List of districts of division

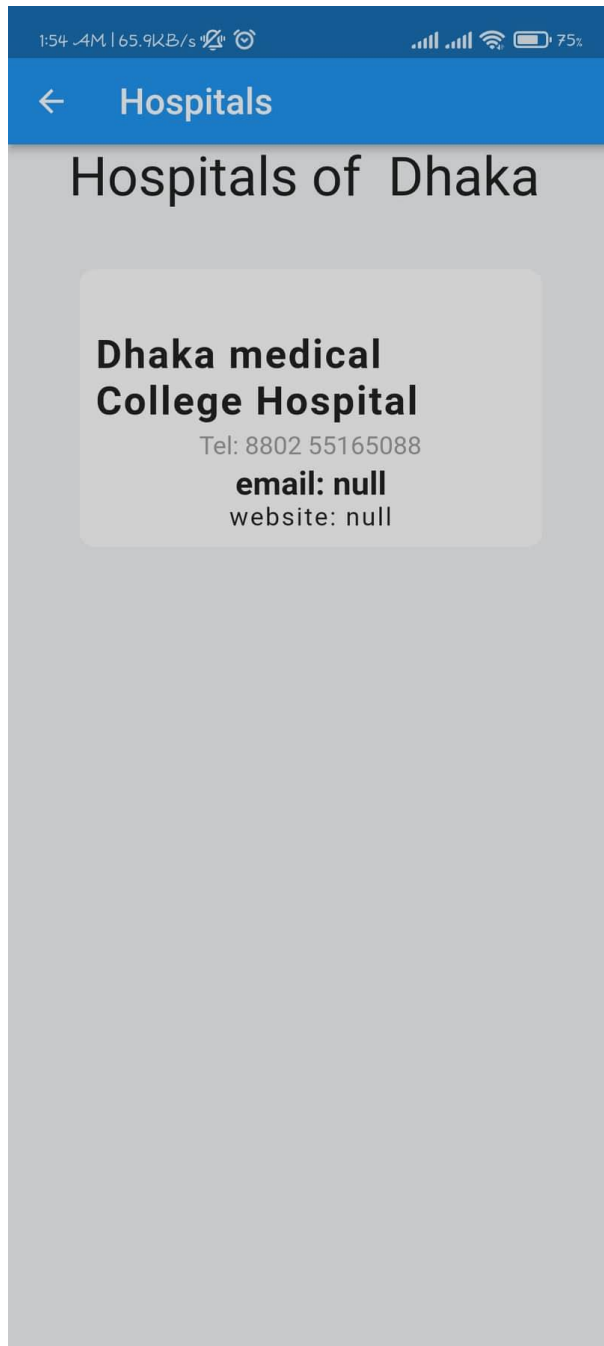


Figure 5.3: Hospital details

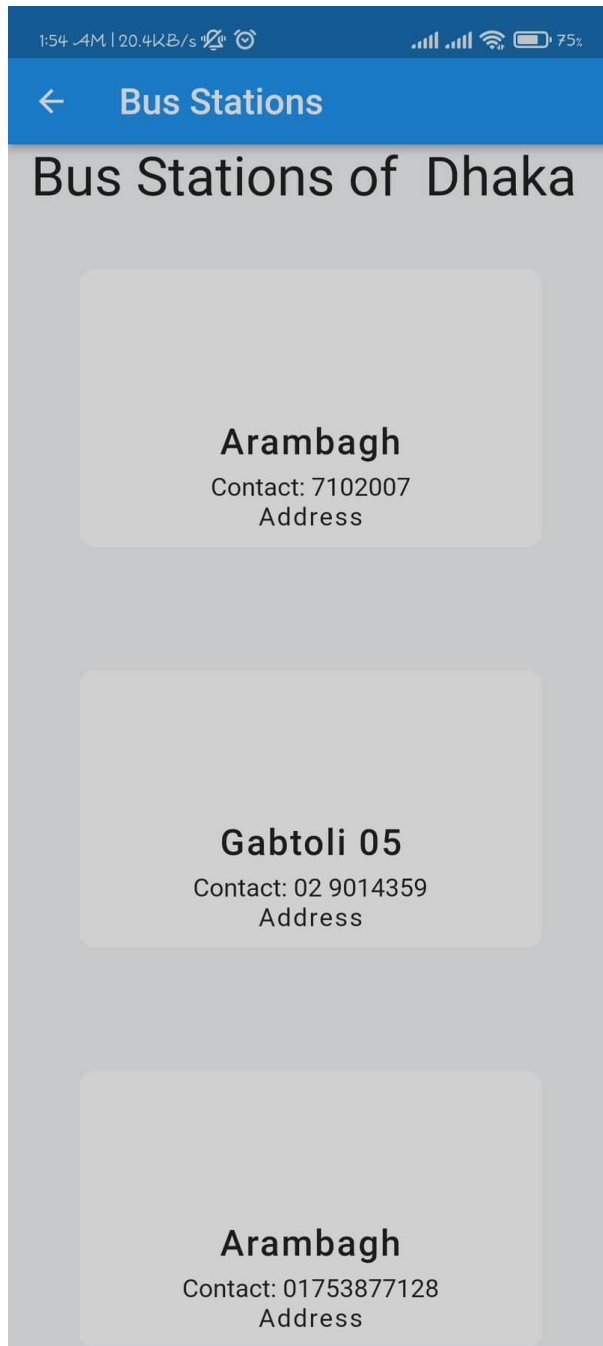


Figure 5.4: Bus stop details

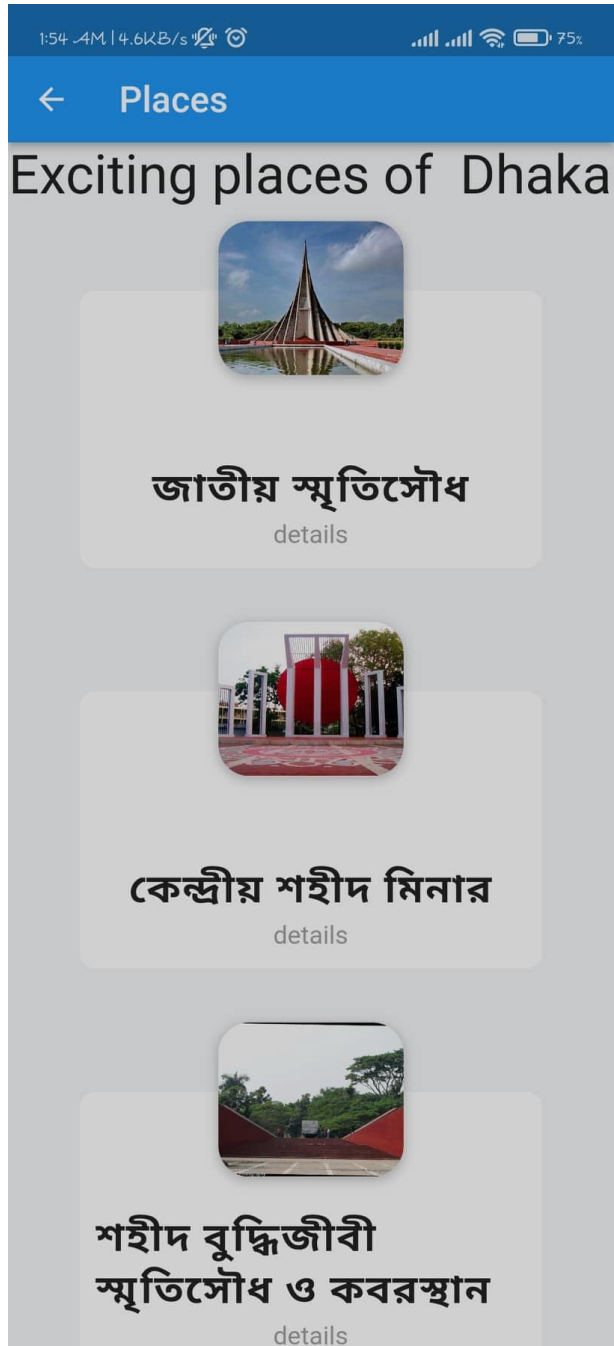


Figure 5.5: List of Places

1:54 AM | 15.5KB/s | 75%

← details

Place Details

জাতীয় স্মৃতিসৌধ



জাতীয় স্মৃতিসৌধ বাংলাদেশের স্বাধীনতা যুদ্ধে নিহত মুক্তিযোদ্ধা ও নিহত বেসামরিক বাঙালি ও অবাঙ্গালিদের স্মৃতির উদ্দেশ্যে নিবেদিত একটি স্মারক স্থাপনা। এটি সাভারে অবস্থিত। এর নকশা প্রণয়ন করেছেন স্থপতি সৈয়দ মাইনুল হোসেন। এখানে মুক্তিযুদ্ধে নিহতদের দশটি গণকবর রয়েছে। বিদেশি রাষ্ট্রনায়কগণ সরকারিভাবে বাংলাদেশ সফরে আগমন করলে এই স্মৃতিসৌধে শ্রদ্ধা নিবেদন রাষ্ট্রাচারের অন্তর্ভুক্ত।

১৯৭২ খ্রিস্টাব্দের ১৬ ডিসেম্বর বিজয় দিবসে বাংলাদেশের তৎকালীন রাষ্ট্রপতি শেখ মুজিবুর রহমান ঢাকা শহর থেকে ২৫ কিলোমিটার দূরে ঢাকা-আরিচা মহাসড়কের পাশে নরীনগরে এই

Figure 5.6: Places Details

5.3 Testing Implementation

I have tested my application by different kinds of parameters. In our testing, I detect some issues and errors or bugs during the execution of my application. I am able to successfully resolve those bugs. After resolving those bugs, I again test run my front-end and back-end part and also the database of my application. I write different types of test cases to ensure the quality of my project. Still there is some procedure to do and my application is in the development progress for some features in future.

5.4 Test Results and Reports

During the development of the app I had to test several times that the parts of application working or not here is a few records of the several parts of the application showing below in table 5.1.

Table 5.1: Test Results and Reports of the application

Test Case	Expected Outcome	Obtain Outcome	Successful/Failed	Testing Period
Admin	Work Successfully	Did not Work Successfully	Failed	27/04/22
Admin	Work Successfully	Did not Work Successfully	Failed	03/05/22
Admin	Work Successfully	Work Successfully	Successful	16/05/22
Dashboard	Work Successfully	Did not Work Successfully	Failed	27/05/22
Dashboard	Work Successfully	Work Successfully	Successful	02/06/22
Division	Work Successfully	Work Successfully	Successful	05/06/22
Districts	Work Successfully	Work Successfully	Successful	05/06/22
Places	Work Successfully	Did not Work Successfully	Failed	11/07/22
Places	Work Successfully	Work Successfully	Successful	15/07/22
Bus Stop	Work Successfully	Work Successfully	Successful	15/07/22
Jesson API	Work Successfully	Did not Work Successfully	Failed	18/07/22
Jesson API	Work Successfully	Did not Work Successfully	Failed	31/07/22
Jesson API	Work Successfully	Work Successfully	Successful	10/08/22
Hospitals	Work Successfully	Work Successfully	Successful	15/08/22

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

For my final year project, I developed this application. I got the idea primarily from my own experiences. When I go to travel places i had to plan for a few months because there is no authorized data for the places. However, me and my friends had to search to google many time for any single data or ask to peoples for places, accommodation, transport and emergency contacts. I developed an application that is simple to use. It took a long time to think about and implement new features. I take every precaution to ensure that my users have an error-free application. It is simple to understanding and utilize.

6.2 Future Work and Further Development

I have many features planned for the future. There will always be opportunities to customize our application to the needs of our users. I had also intended to create a web application so that users can operate the system using both a web browser and an android application and here i can easily add promotions to any company or site to reach them to peoples. By using this application, it will be much easier to increase social awareness.

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