

# **DOCTOR FINDER**

**BY**

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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**

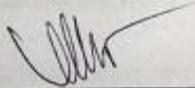
**DHAKA, BANGLADESH**

**DECEMBER 2019**

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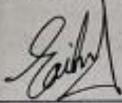
This Project/internship titled **Doctor Finder**, submitted by Ragib Anjum, ID No: 161-15-6916 and Fatema Tuz Zohra, ID No: 161-15-7186 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements 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 06<sup>th</sup> December 2019.

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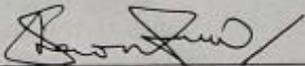
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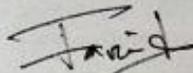
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## DECLARATION

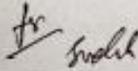
We hereby declare that, this project has been done by us under the supervision of **Md. Sadekur Rahman, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree.

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Finally, we must acknowledge with due respect the constant support and patience of our parents.

## **ABSTRACT**

In our busy life we travel from here to there, sometime for work sometime for study sometime just to travel. When we are in a new place and we suddenly got sick, it become so hard to find a doctor around that pace. On that time Doctor finder app can be the most useful app. Doctor finder app can help a person to find a doctor or a hospital near his current area. Doctor finder app can also help him take appointment and see the direction of that hospital. Doctor finder app help a person to find doctor in specific area. It also helps a person to find specialized doctors. This app use GPS to detect current location of the user. This app use Google Map to show navigation towards the hospital. Health is the most important thing in our life. To have a health life we need help of doctors. Doctor finder app is a smart solution for finding doctors, hospitals problem in an unknown placeless. It can be a very useful app for everyone.

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# CHAPTER 01

## Introduction

### 1.1 Introduction

In this busy life sometime, it become really hart to fiend doctors. Especially when we are in a new city, when we have absolutely no idea about the city. Finding a doctor in big cities can also be a problem. To solve this problem, we developed an android app. This app name is “Doctor Finder”. This app contains information of doctors. Information about doctor’s name, specialty, degree, hospital name, chamber address, week days and visiting ours. User can also get navigation and take appointment by using this app.

We live in modern age. In this modern age everyone has a smartphone in their pocket. People can simply install this app from play store and use it. User does not need any account to use this app. The service of this app is free to all. User can search for doctors by their specialty or area. If user do not know the name of the area then they can simply go for find near option. In this case app will find users current location using GPS.

We believe we have fulfilled all requirements of users. The app has no log in system and the UI is so simple that no one will face any difficulty to use this app.

### 1.2 Motivation

Few months ago, suddenly I got ill and I was finding a doctor. I was finding a good dentist. I asked my friends my relative where should I go for treatment. Where will I get good treatment. One of my friends suggested me about PG hospital. I did not know where it is. I asked for address. Then he took me there. I thought that being a CSE student and an android developer maybe I can do something to solve this problem. On that time, I came up with this idea. I discuss this with my team mate and she appreciate me and agree to work on this project.

Then we ask other friends in our class if they ever had this kind of problem. Most of them said they had faced this kind of problem when they first come to Dhaka. We thought that it can be useful for so many people. From then we started working on this project.

### **1.3 Objectives**

We point out the objectives of our project. Those points are given below:

- To make doctor searching process easier.
- To save peoples time and money.
- To provide information about doctors
- To develop a system that helps to get appointment of a doctor that user wants or likes.
- To provide navigation support to reach to desired hospital.

### **1.4 Expected Outcome**

Doctor finder app is designed to make doctor searching easy. Previously people use to search for specialist, then the search for their chamber address, then they try to find the number to take appointment. With the help of this app they don't need to do this anymore. We bring all this information in one platform. This app will save users valuable time and money. By using this app user don't even have to go to the chamber or hospital to take appointment. That mean it also saving users money. User don't even have to worry about finding the address. The app has navigation system for that.

This app containing features:

- Multiple search in one platform
- Easily select specialist doctor
- Filter search by location and specialist or hospital name
- Week days and visiting hours
- Get appointment
- Get navigation

## 1.5 Report Layout

We divided this report into six chapters. Every chapter have different aspects of this project. All chapters are divided into sub chapters. It helps us to explain all the detail.

### ❖ **Chapter 1: introduction**

- This chapter discuss the concept abaft our project. here we also discuss about motivation objectives and expected outcomes.

### ❖ **Chapter 2: Background**

- This chapter containing our project related works, studies and scope of problem

### ❖ **Chapter 3: Requirement specification**

- This chapter discuss our project Business Process Modelling, requirement collection and analysis, use case modelling and description. logical data model and design requirements.

### ❖ **Chapter 4: Design specification**

- This chapter discuss our project front-end design, back-end design, interaction design and implementation requirements.

### ❖ **Chapter 5: implementation and testing**

- This chapter discuss about implementation of database, front-end design, interaction, testing result and reports.

### ❖ **Chapter 6: conclusion and future scope**

- This chapter discuss about the conclusion and future scope of our project.

# CHAPTER 02

## Background

### 2.1 Introduction

Doctor finder is an android application. It's an online based application. In this chapter we discussed about the work we have done, analysis and comparison with applications, scope of this application etc.

### 2.2 Related Works

There are so many apps in market for searching doctor. But no other application fulfils our demand.

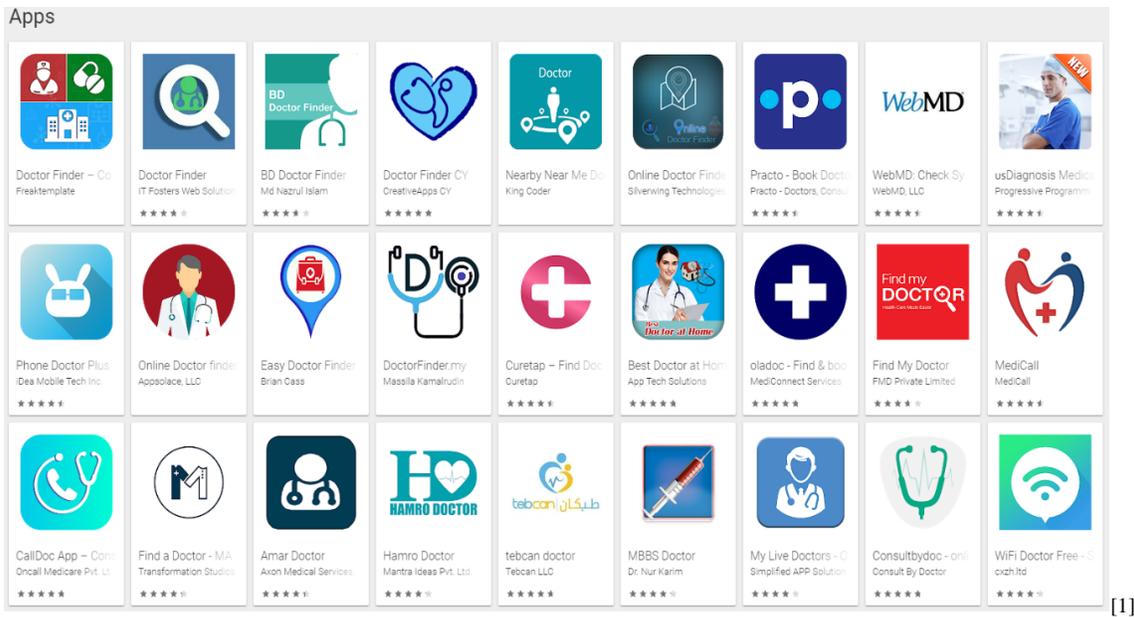


Figure 2.1: List of popular doctors finding apps in play store

These are some apps that we have found on google play store. But none of this have everything we want in one place. Some have lack of information. Some have data that is so backdated. Some apps do not provide proper addresses. So, we develop a new app that do not have these issues.

## 2.3 Comparative Studies

Doctor finder app is an android app that can help user find a doctor. There are so many app in the market that so the same thing. We have compared our app with other apps

### 2.3.1 Comparison with related applications

Here is a comparison table with some other related apps

#### Comparison with Android Application:

In this table we compared our app fetchers with other app fetchers. On the top line we have name of the applications and on the first columns we have fetchers of our app.

Table 2.1: Comparison with Android Application

<b>Application Name:</b>	<b>Doctor Finder and appointment</b>	<b>Online doctor finder</b>	<b>Book my consult</b>	<b>Doctors appointment</b>
<b>Search Doctor</b>	YES	NO	YES	YES
<b>Select area</b>	NO	NO	NO	NO
<b>Select Specialty</b>	NO	NO	YES	NO
<b>Filter Hospital</b>	NO	NO	NO	NO
<b>Find nearby</b>	NO	NO	NO	NO
<b>Get appointment</b>	YES	NO	YES	YES
<b>Hospital Direction</b>	NO	NO	NO	NO

## Comparison with Website:

In this table we have shown the comparison with some website

Table 2.2: Comparison with website

<b>Website Name:</b>	<b>Doctors bd.com</b>	<b>Doctorola.com</b>	<b>e-medical point</b>	<b>Health perior21.com</b>
<b>Search Doctor</b>	YES	YES	YES	YES
<b>Select area</b>	NO	YES	NO	NO
<b>Select Specialty</b>	YES	NO	YES	YES
<b>Filter Hospital</b>	YES	YES	NO	YES
<b>Find nearby</b>	NO	NO	NO	NO
<b>Get appointment</b>	YES	NO	YES	YES
<b>Hospital Direction</b>	NO	NO	NO	NO

## 2.4 Scope of the Problem

By following the software development process, we worked on our android application. This apps are user friendly and easy to use. we see other involved application from play store but they have some problem. Our application helps all kind of people. We want to promote our application day by day. We will add some feature in future. Our application feature is so amazing. Some extraordinary feature of our applications is:

- No login or registration system
- Easy user interface

- Fast loading and high performance
- Detect location system Using google Map

## **2.5 Challenges**

The most challenging part of our project is collecting data. And adding google map navigation system. Every day we face objection when we want to do something new. When we work for building this application, we face many objections. We have successfully defeated those problem.

We use XML for design, it was exception for us. We also face objection when we pluck data and quantity of code. other objections were Requirements analysis, perfection and efficiency of system.

# CHAPTER 03

## Requirement Specification

### 3.1 Business Processing Modeling

Business process modelling is a part of business process management and system engineering. The activity of business processing modelling is representing process of an enterprise. The business processing model for Doctor Finder app is like the figure shown in figure 3.1.

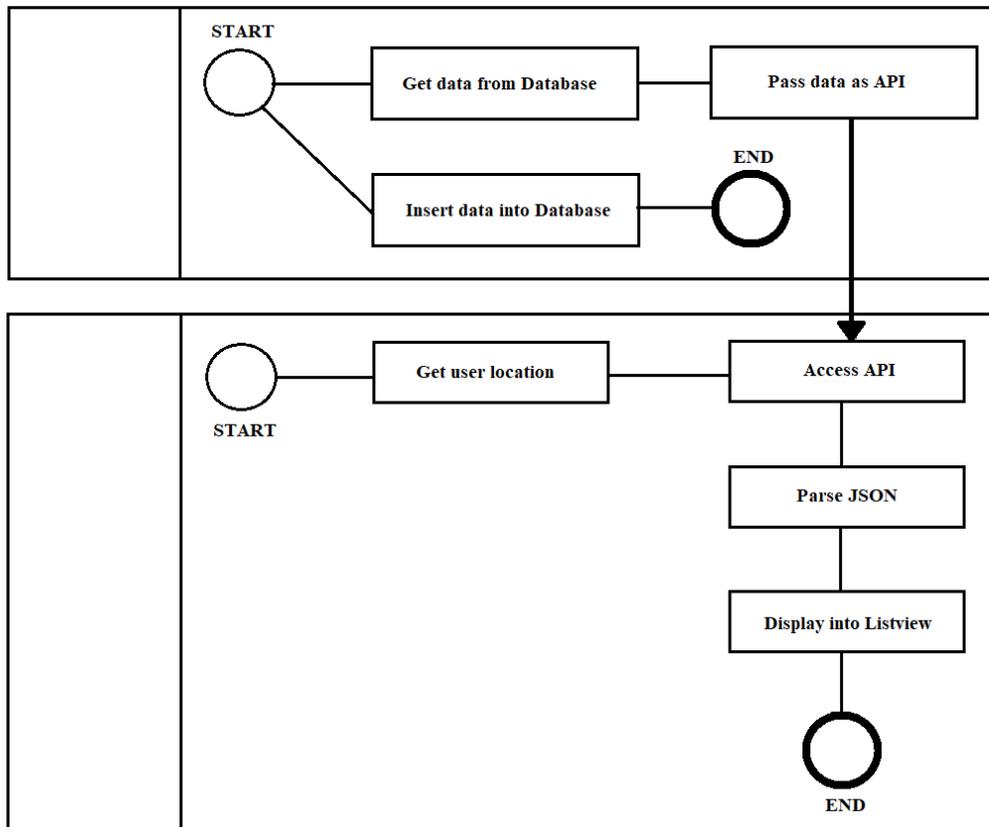


Figure 3.1: Business Processing Modeling of Doctor Finder

### **3.2 Requirement Collection and Analysis**

We have divided this point into two sub points. Those are Required software, Required hardware.

#### **3.2.1 Required Software**

The software that we used to develop this app:

- Operating System: Windows
- UI and diagrams Design: Android Studio (android XML), Paint
- Language to develop app: Kotlin
- Language for server: php (version 7)
- Tools for app: Android Studio
- Database: MySQL
- Device: Android Virtual Device (AVD), Android Smart Phone

Software required to run the app:

- Operating System: Android Operating System (Android OS)
- Network: Wi-Fi or cellular Network
- Device: Android Smart Phone
- Android version: 4.0 Ice Cream Sandwich

#### **3.2.1 Required Hardware**

Minimum requirement of hardware to develop this project:

- Processor: Intel Core i3
- RAM: 4GB
- Space on disk: minimum 0.2GB

Minimum requirement of hardware to run the app:

- Smartphone ram: 512 MB
- Processor: minimum ARMv7 processor [3]

### 3.3 Use Case Modeling and Description

A use Case diagram for our application is shown below

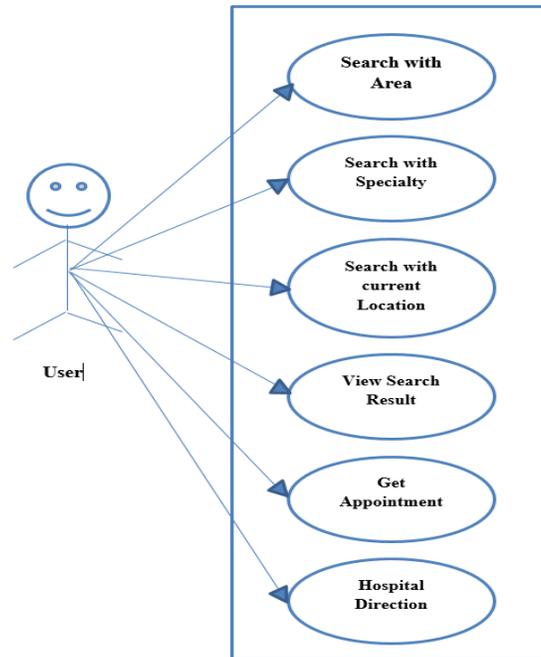


Figure 3.2: Use case diagram

#### Description:

This use case diagram start working when an actor or user entered into the system. This use case diagram shows how many things a user can do with the application.

- i. Search with Area  
When user enter any area name this use case starts functioning.
- ii. Search with Specialty  
This use case start working when user select any specialty
- iii. Search with current Location  
This start working when user select the find nearby option
- iv. View Search Result  
After clicking the search button this use case start working
- v. Get Appointment  
After clicking the get appointment button this use case start working
- vi. Hospital Direction

After clicking the hospital direction button this use case start working

### 3.4 UML Diagram

UML diagram is a diagram which contain attributes and class names. This diagram shoes which attributes and classes we use to develop this application. A UML diagram of our application ig Given below

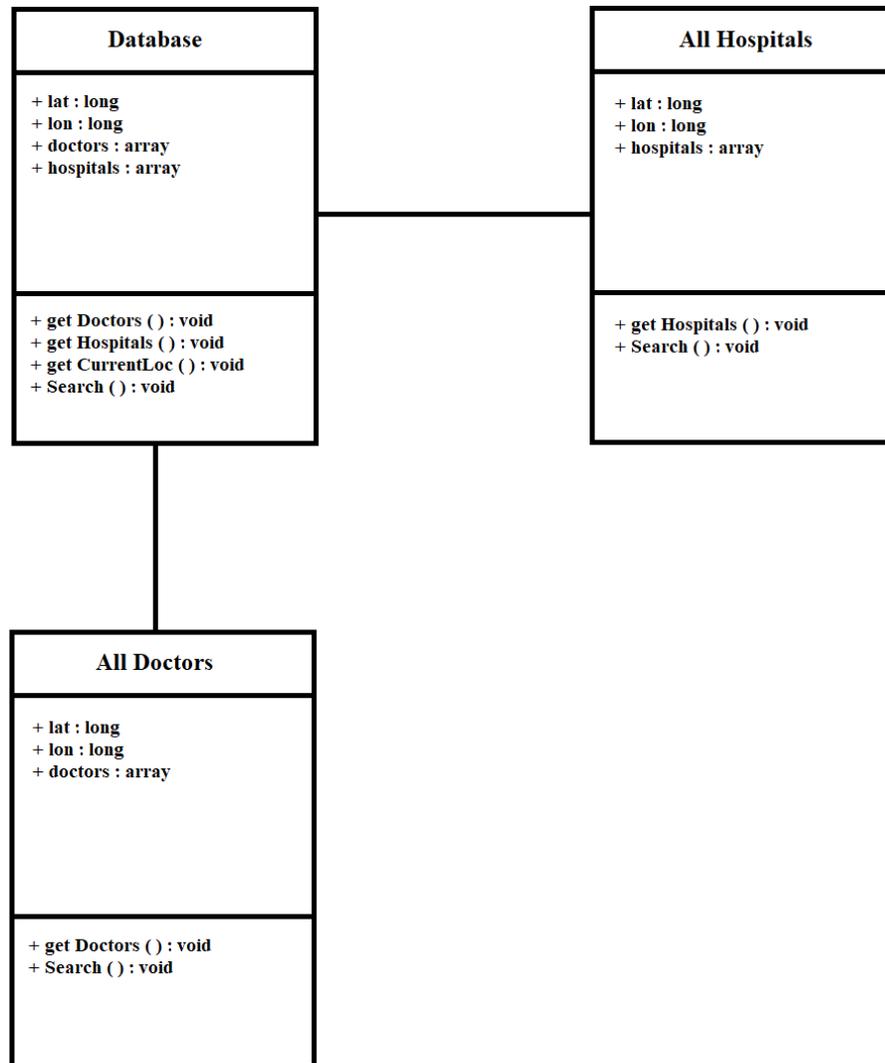


Figure 3.3: UML diagram.

### **3.5 Design Requirements**

Design is an important part for any work. People are fond of beautiful things. Before using anything first we check out the look of that thing and then we use it. That is why everyone want to make their product beautiful. When it comes to software or applications simplicity is the beauty. In this case people want something that is simple and easy to understand. That's why we try to make our application as simple as possible so that anyone can understand the functionality easily.

# CHAPTER 04

## Design Specification

### 4.1 Front-end Design

Our android application is a Dynamic application. This application Work by using internet. Without the access of internet connection this app won't work. In this application User only has access on the front-end Design. User cannot access Back-End Design.

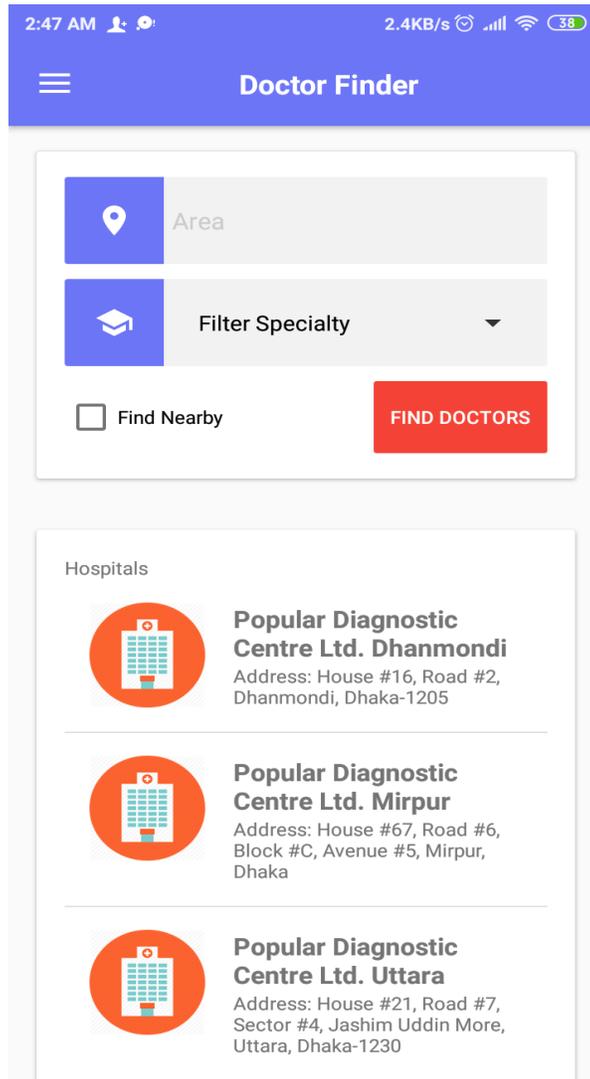


Figure 4.1: Home page

This is the home page of our android application. On the top it shows the name of the application, on top left corner there is a navigation bar after that we have search options and then we have the list of hospitals.

### The navigation Bar

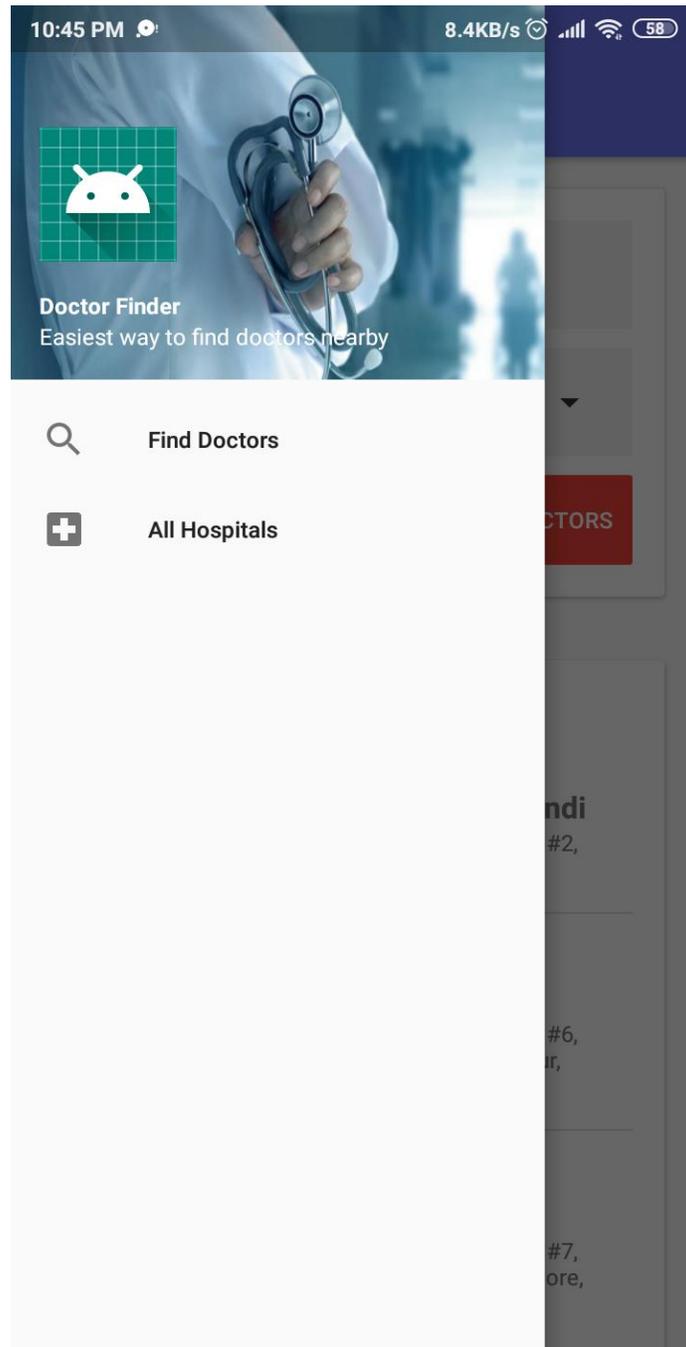


Figure 4.2: Navigation Bar

In this navigation bar we have added two potations find doctor and all the hospitals we have in our database.

In this screenshot we have shown searching with area and specialty

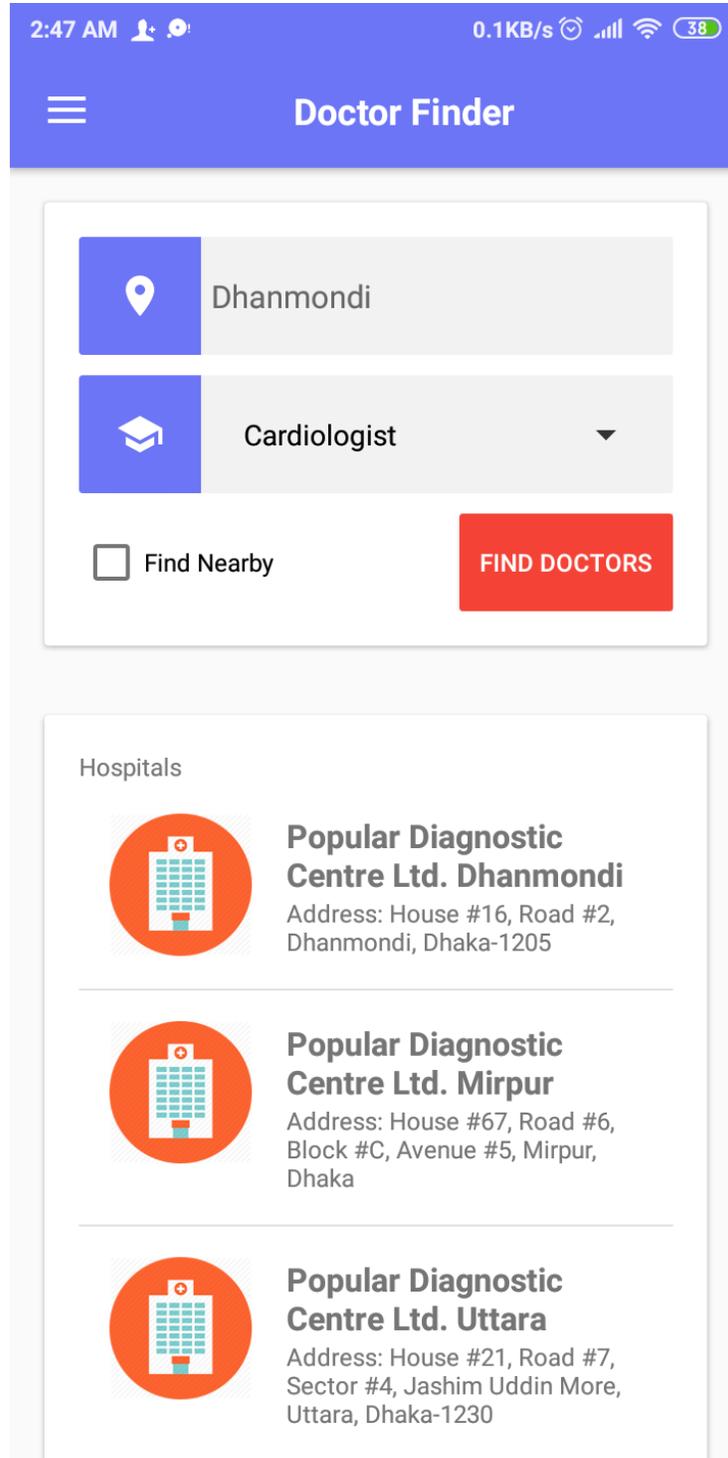


Figure 4.3: Search with area and specialty

This screenshot shows searching with nearby option. By this option this app didact user's current location and search for nearby hospitals.

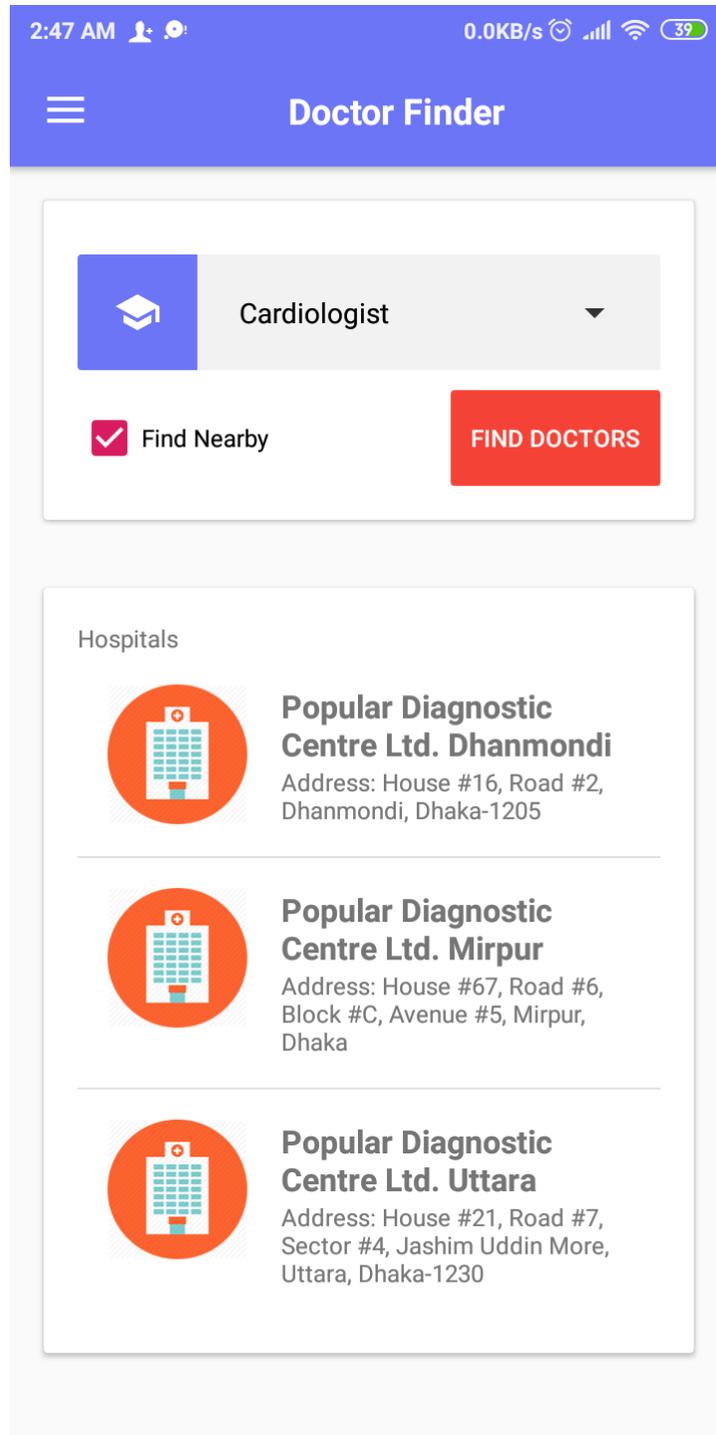


Figure 4.4: Using Find Nearby

This shows the search result. This list shows Doctors Name and Specialty.

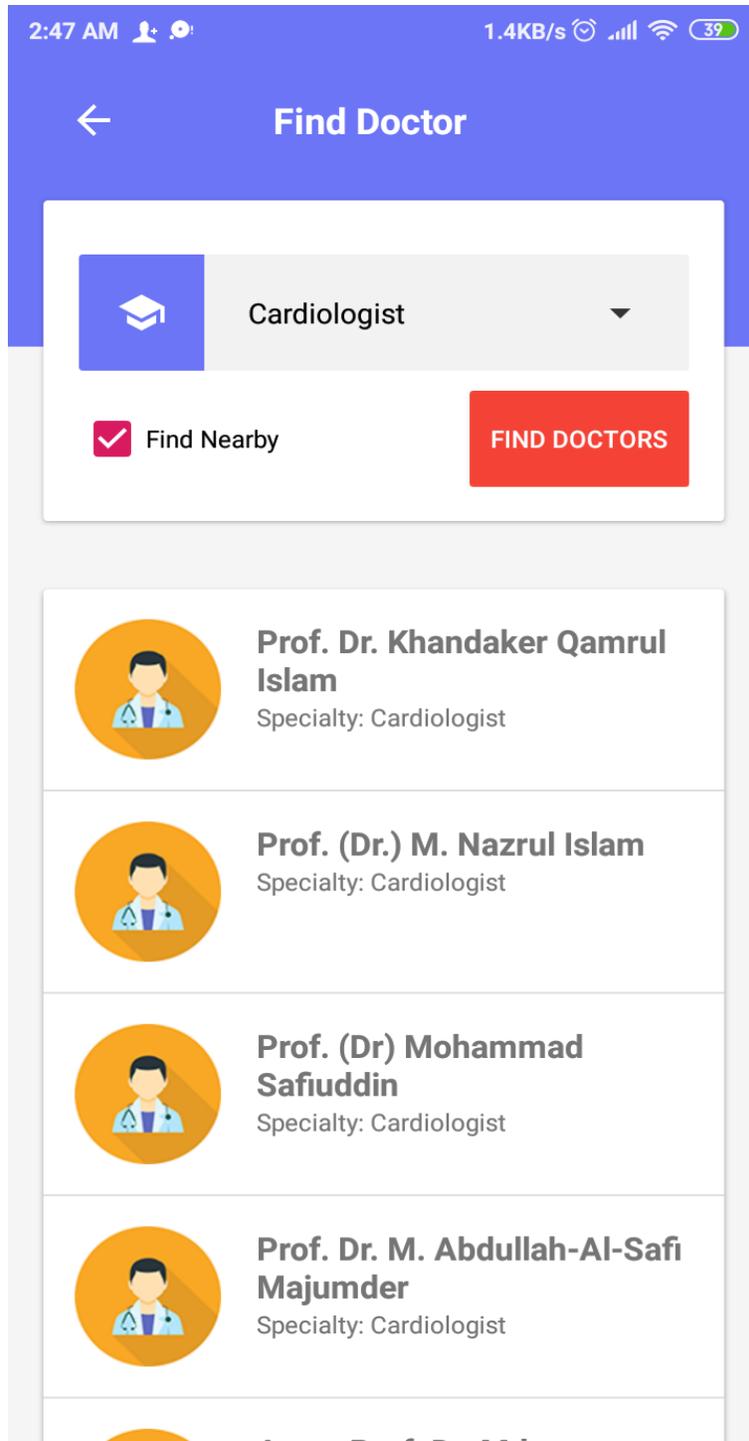


Figure 4.5: Search result

In this window user can see the detail of a doctor. Doctor's name, degree, specialty, hospital name, address of hospital, week days and visiting hours. In this window user will get two options. That is get appointment and hospital direction.

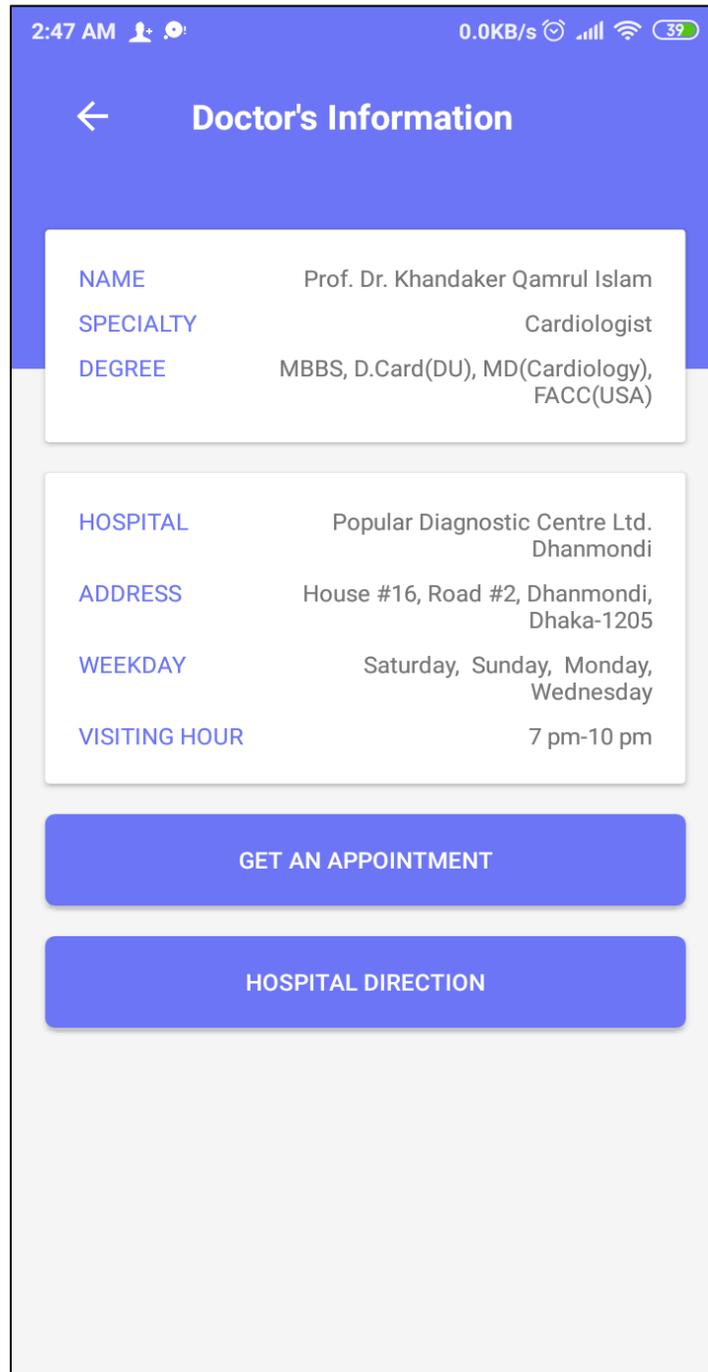


Figure 4.6: Doctor's Information

When user click on the get appointment button the app will open the phone dial and show the number.

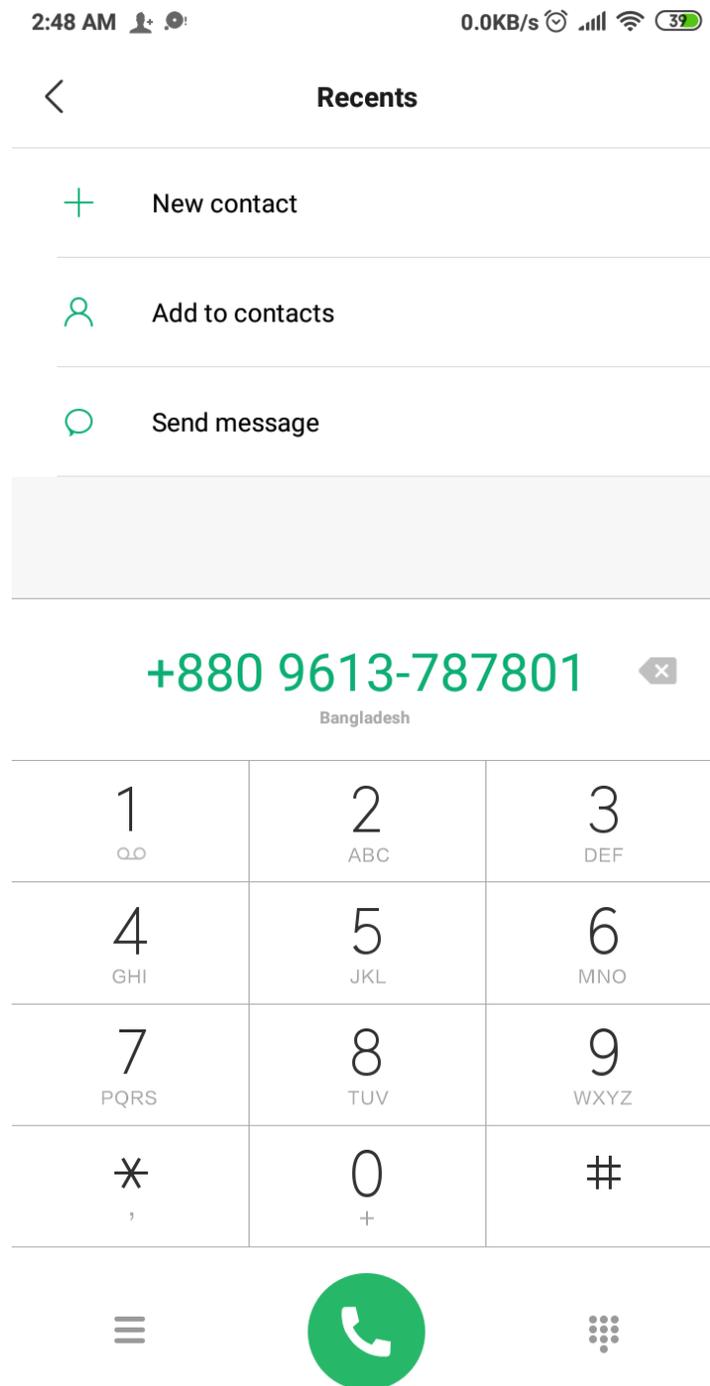


Figure 4.7: Get Appointment

When user click the hospital direction button then it will take the user to google map and on the google map it will show the navigation.

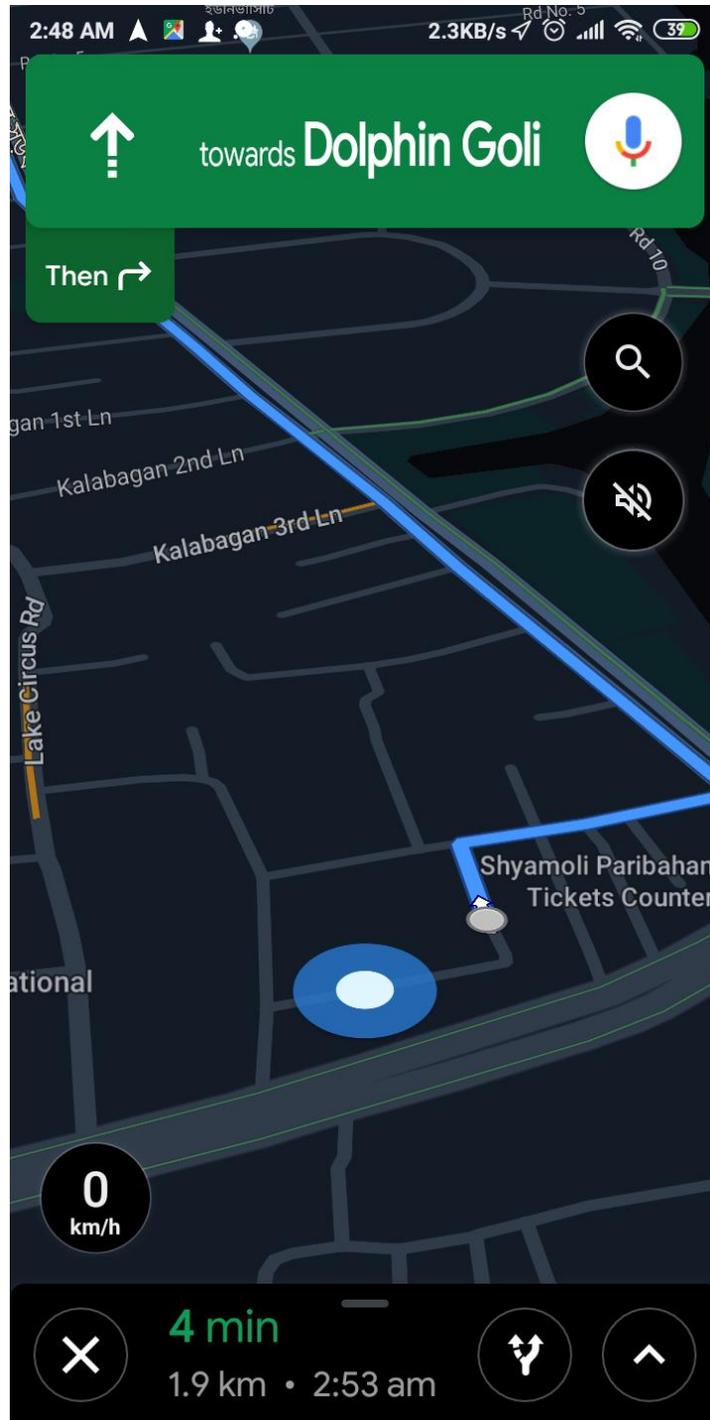


Figure 4.8: Showing Direction

## **4.2 Back-end Design**

For the server side back-end and we used PHP version 7 and for the Android application development to use Kotlin programming language when a user navigate to a specific features like all hospitals then the app request to API the API to get the data from the database and pass in a JSON format then the application received the JSON format data and pass the JSON and insert data into List View for displaying a specified location we used in Google Map intent to display the map data in to Google map application initially We strode all the doctors name and Hospital names with their latitude longitude and other address details into our MySQL database into a shared Linux based Hosting.

## **4.3 Interaction Design and UX**

Regarding of huge amount back-end work, we have tried to make it comfortable, easy to understand and user friendly. In the market the success or failure depends on User Experience (UX) and user satisfaction. That's why we try to make our front-end design attractive.

### **Home page design:**

We wanted to make our home screen simple and easily understandable. We do not have any log in page. That mean when a user installs the app, he does not need to think about login. We designed the home page in such a way that any one easily understands how this application works.

### **Search:**

We try to design the search options in such a way that user should not feel like there should be something more. We try to cover all the options that a user can look for. We added area search option, search with specialty option even if user do not know the name of the area, we add a find nearby option where app detect user's current location and then show him doctors of his nearby hospitals.

### **View Search Result:**

To view the search result, we have used List View. User can see a list of doctors as search result. The list will contain doctors name and field of specialty. When they click on doctor's name, they can see the detail information.

### **Direction:**

We have implemented direction or navigation system for the user. If a user does not know the address then he does not have to worry about that. He can simply just click the hospital direction button and app will take user to the google map. This button will open the google map and navigate the user towards his destination.

## **4.4 Implementation Requirements**

Implementation of this project are divided into some parts that are given below:

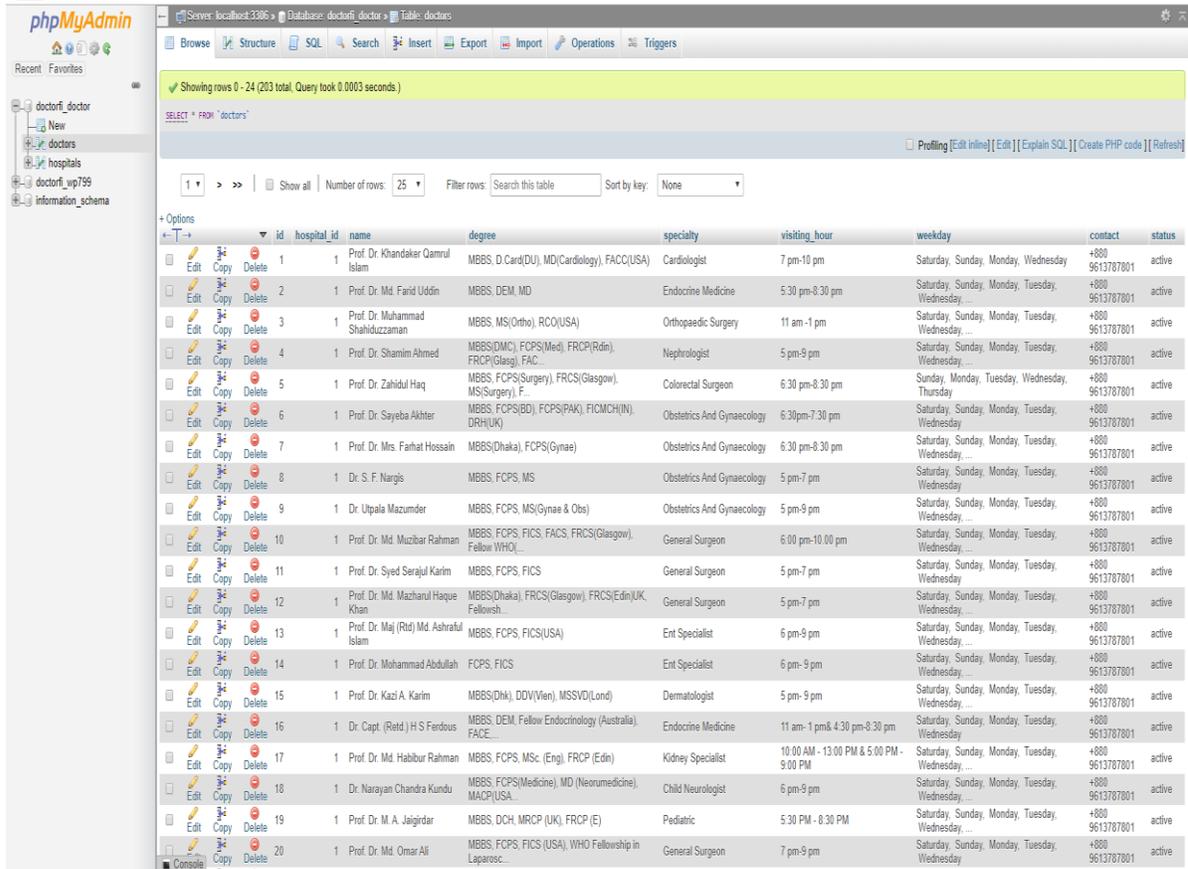
- ❖ **Used Technology:** The main requirements for this project is fetching data from database
- ❖ **Programming Languages:** Kotlin for app and PHP version 7 For the server
- ❖ **Database:** MySQL
- ❖ **Storage:** MySQL
- ❖ **Authentication:** MySQL
- ❖ **Tools:** Android Studio

# CHAPTER 05

## Implementation and Testing

### 5.1 Database Implementation

We have used MySQL database to develop this app. By using MySQL, we stored our data in the server. We added a sample of our database in figure figure 5.1.



The screenshot shows the phpMyAdmin interface displaying a table named 'doctors'. The table contains 20 rows of data, each representing a doctor's profile. The columns include 'id', 'hospital\_id', 'name', 'degree', 'speciality', 'visiting\_hour', 'weekday', 'contact', and 'status'. The data is as follows:

id	hospital_id	name	degree	speciality	visiting_hour	weekday	contact	status
1	1	Prof. Dr. Khandaker Qamrul Islam	MBBS, D. Card(DU), MD(Cardiology), FACC(USA)	Cardiologist	7 pm-10 pm	Saturday, Sunday, Monday, Wednesday	+880 9613787801	active
2	1	Prof. Dr. Md. Farid Uddin	MBBS, DEM, MD	Endocrine Medicine	5:30 pm-8:30 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
3	1	Prof. Dr. Muhammad Shahiduzzaman	MBBS, MS(Ortho), RCO(USA)	Orthopaedic Surgery	11 am - 1 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
4	1	Prof. Dr. Shamim Ahmed	MBBS(DMC), FCPS(Med), FRCP(Rdin), FRCP(Glasg), FAC	Nephrologist	5 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
5	1	Prof. Dr. Zahidul Haq	MBBS, FCPS(Surgery), FRCS(Glasgow), MS(Surgery), F	Colorectal Surgeon	6:30 pm-8:30 pm	Sunday, Monday, Tuesday, Wednesday, Thursday	+880 9613787801	active
6	1	Prof. Dr. Sayeba Akhter	MBBS, FCPS(BD), FCPS(PAK), FICMCH(IN), DRH(UK)	Obstetrics And Gynaecology	6:30pm-7:30 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
7	1	Prof. Dr. Mrs. Faihat Hossain	MBBS, FCPS, MS(Gynae)	Obstetrics And Gynaecology	6:30 pm-8:30 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
8	1	Dr. S. F. Nargis	MBBS, FCPS, MS	Obstetrics And Gynaecology	5 pm-7 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
9	1	Dr. Utpala Mazumder	MBBS, FCPS, MS(Gynae & Obs)	Obstetrics And Gynaecology	5 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
10	1	Prof. Dr. Md. Muzibar Rahman	MBBS, FCPS, FICS, FACS, FRCS(Glasgow), Fellow WHO...	General Surgeon	6:00 pm-10:00 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
11	1	Prof. Dr. Syed Sarajul Karim	MBBS, FCPS, FICS	General Surgeon	5 pm-7 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
12	1	Prof. Dr. Md. Mazharul Haque Khan	MBBS(Dhaka), FRCS(Glasgow), FRCS(Edn)UK, Fellowsh...	General Surgeon	5 pm-7 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
13	1	Prof. Dr. Maj (Rtd) Md. Ashraful Islam	MBBS, FCPS, FICS(USA)	Ent Specialist	6 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
14	1	Prof. Dr. Mohammad Abdullah	FCPS, FICS	Ent Specialist	6 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
15	1	Prof. Dr. Kazi A. Karim	MBBS(DH), DDV(Vien), MSSVD(Lond)	Dermatologist	5 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
16	1	Dr. Capt. (Retd.) H.S Fardous	MBBS, DEM, Fellow Endocrinology (Australia), FACE...	Endocrine Medicine	11 am- 1 pm& 4:30 pm-8:30 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
17	1	Prof. Dr. Md. Habibur Rahman	MBBS, FCPS, MSc, (Eng), FRCP (Edn)	Kidney Specialist	10:00 AM - 13:00 PM & 5:00 PM - 9:00 PM	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
18	1	Dr. Narayan Chandra Kundu	MBBS, FCPS(Medicine), MD (Neuromedicine), MACP(USA)	Child Neurologist	6 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
19	1	Prof. Dr. M. A. Jaigirdar	MBBS, DCH, MRCP (UK), FRCP (E)	Pediatric	5:30 PM - 8:30 PM	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active
20	1	Prof. Dr. Md. Omar Ali	MBBS, FCPS, FICS (USA), WHO Fellowship in Laparosc...	General Surgeon	7 pm-9 pm	Saturday, Sunday, Monday, Tuesday, Wednesday	+880 9613787801	active

Figure 5.1: Sample of Database

## 5.2 Implementation of Front-end Design

On the Front view there is a list view which containing the list of hospitals. This list view fetches the data from database and show that as List View.

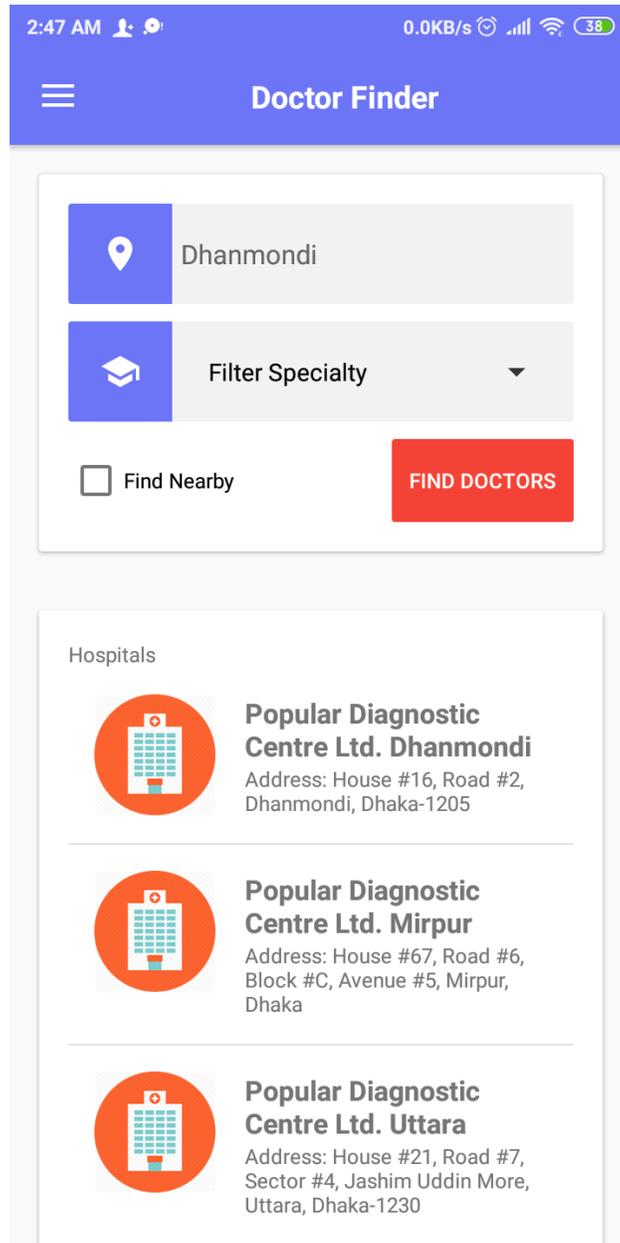


Figure 5.2: List of hospitals

This screenshot shows the list of doctors. In this part app fetch data from tata base as JSON. Then it parses the JSON data and display it to user as List View.

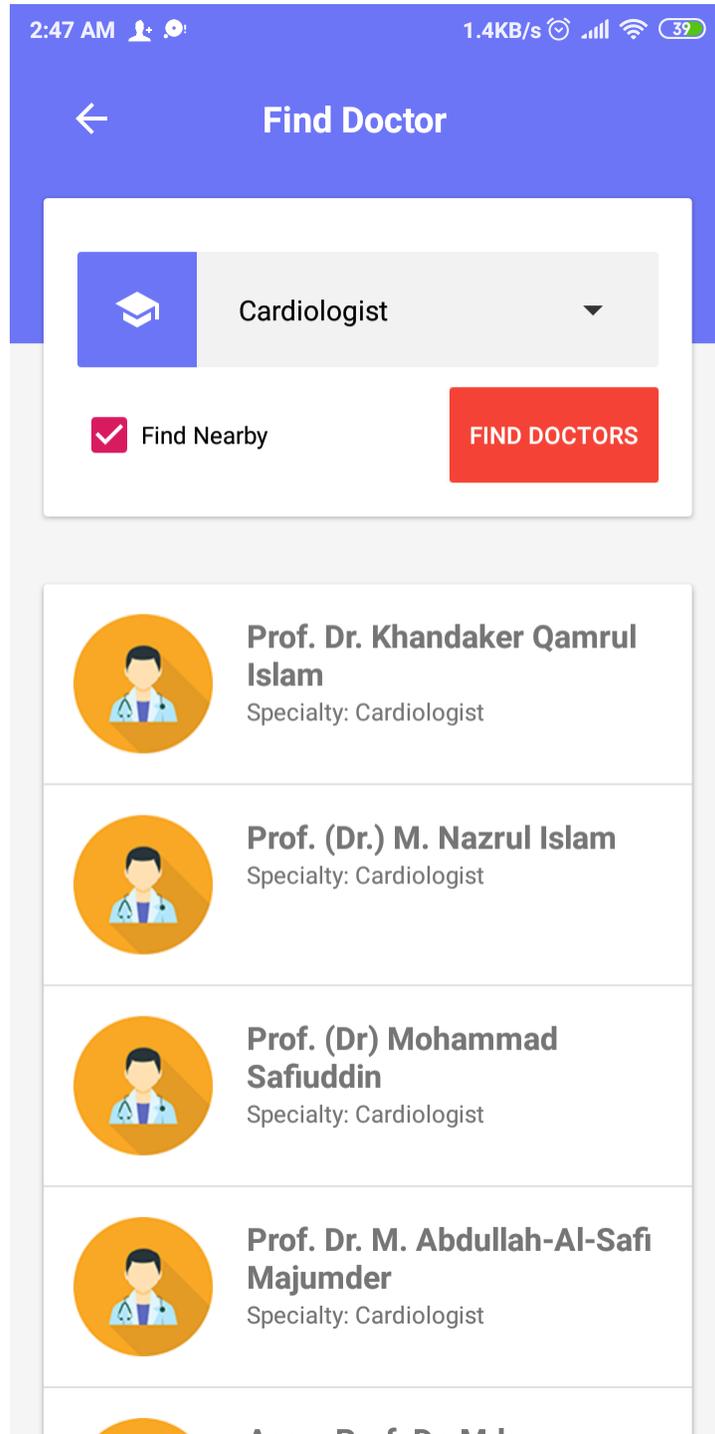


Figure 5.3: List of Doctors.

### **5.3 Implementation of Interactions**

The most imperative piece of a framework is the execution of association. When we in one activity and we need to move to another activity on that time we need association. We must have to make our application interactive. Otherwise user will not satisfy with the application. We always need to think about our users and plan it that way. The success of an application depends on this thing.

### **5.4 Testing Implementation**

It is so important to test the system when we are done with all the implementations. Without testing we cannot be so sure about our system working properly or not. After finishing our implementation, we also tested our system multiple times. we have tested the factors that are given below:

- List View Working properly or not
- Able to search by areas or not
- Able to search by specialty or not.
- Able to find current location or not
- Buttons working properly or not
- Able to go to phone dial or not
- Able to open google map or not
- Able to show navigation properly or not

## 5.5 Test Results and Reports

We have tested our application several times. First time things did not go as we expected but we fixed that and 2<sup>nd</sup> time we got the expected result. We made a table with our testing experiences. That table is given below:

Table 5.1: Application testing table

<b>Users</b>	<b>Date</b>	<b>UX</b>	<b>Expected outputs</b>
User 1	25/10/2019	Not Good	Not As expected
User 2	27/10/2019	Average	As expected,
User 3	29/10/2019	Good	As expected,
User 4	30/10/2019	Good	As expected,
User 5	31/10/2019	Good	As expected,

## CHAPTER 06

### Conclusion and Future Scope

#### 6.1 Discussion and Conclusion

With the grace of Almighty Allah, after a long period of time, long-term of thinking, discussion implementation finally we have successfully completed our project and its documentation. Now this app is working properly as we expected.

There are so many apps in the market but no other app have all this property that we r providing with Doctor finder app. Hopefully it will help all kind of people and save so much time and effort of the users.

From now no one need to ask other about which doctor, what is his specialty, what it his degree or designation, how we can take appointment, address of chamber. Doctor finder is the solution of all this question. By using our app user don't even have to worry about finding address. They not only get detail and appointment but also the navigation.

#### 6.2 Scope for Further Developments

We have some plane to update this app in future. They are:

- 2 Add more filter option for search
- 3 Cover all districts of Bangladesh
- 4 Profile system.

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## APPENDIX

we have learned a lot of things to complete this project. This was an excellent project to work on. A lot of new idea and several problems that may happen to a app like this is quite clear for us now.

While working on this project we have figured out how can we make apps more beneficial for us. We enjoyed this project and we want to keep working on it to give it a better shape.

We are human being. Our creativity makes us different from every other species on this planet. To make our lives easy and more comfortable, we build tools and machines. This has begun at a very early age and since then we have never stopped to build or design new things.

We have been able to build things that has changed the entire thinking process of human civilization. Along with other sectors of science medical technology has also improved. There was a time when people used to die of different diseases but we have overcome those by our advancement in various sectors. Now we are able to perform surgery that people could not even think about a decade ago. Automation in medical sector is still quite new but the question is for how long this will remain new?

This project is a tiny step towards the vast possibilities that science and computers can make to the medical sector. We have different approaches towards new things. We are very proud to be a part of this project.

## Doctor Finder

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