

**A project on developing a mobile application for easily finding
medical services**

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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.

Supervised By

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This project titled " **A project on developing a mobile application for easily finding medical services.**", put together by Nayem Alam, ID: 163-15-8337, and Nazmus Shakib, ID: 163-15-8403 and Md. Sakhawat Hossen, ID: 162-15-7852 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 *08/10/20*

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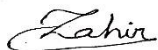
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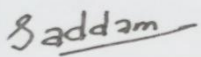
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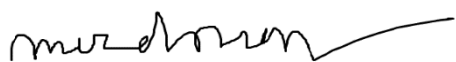
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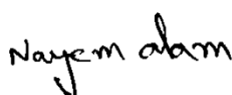
We hereby declare that, this project has been done by us under the supervision of **Mr. Riazur Rahman, Senior Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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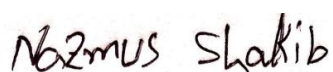


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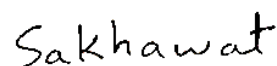
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We should thank our entire associate in Daffodil International University, who took in this inspect while completing the class work.

Finally, we ought to perceive with due respect the reliable assistance and patients of our parents.

ABSTRACT

Health issue is a big factor for us. Sometimes we see that in health issue or medical emergency nearby hospital, blood bank, ambulance service information is not available to us. In such type of situation we have to suffer a lot. In Bangladesh there are many health service mobile applications. But all of these are online based application. To access information internet connection is must. Also primary health tips is necessary for us. In our daily life we face health issue that are not so much critical in such type of situation if we are aware of primary health tips of that particular health issue we are able to handle the situation also in emergency case we are able to give primary support. To make health service information and primary health tips availability easier to people through offline based mobile application we are trying to develop this project.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

MedicBD has been developed for providing information of hospital, ambulance service, blood bank, medicine, drug store all over Bangladesh. Also provide primary health tips. In a new place nearby hospital, drug store, blood bank, available ambulance service is unknown to us. As a result if health issue or medical emergency occurs we have to suffer a lot. Primary health tips help us a lot to handle initial stage of health issue.

1.2 Motivation

People travel from one place to another place for different purpose. In a new place everything is unknown to us. We have no information of nearby hospital, blood bank, available ambulance service. In a new place if health issue occurs it is very difficult for us to handle. Around us very often we hear that people suffer for health issue in new place. In some primary health issue, we are not able to handle that because we have no idea of the causes, symptoms and primary treatments of that health issue. To overcome these problems, we decided to develop this project.

1.3 Project Initiation Planning

We are three members for this project. This project is a result of our thoughts and hard work. Very beginning we had several ideas for our final project. From those several ideas we choose health sector for our project. We had some previous information of hospital, blood bank, ambulance service, medicine and also about health tips. After consulting with

authority and our supervisor we decided to do this particular project. Then we started our project. Our supervisor had given proper instruction.

1.4 Objective of this project

This project has several objectives. The most important objectives are given below:

1. Information of hospital.
2. Information of ambulance service.
3. Information of blood bank.
4. Information of Medicine.
5. Information of drug store.
6. Health tips.

1.5 Expected Outcomes

To resolve this problem, we develop this project. Through this application people will get information of nearby hospital, blood bank, available ambulance service and primary health tips very easily.

CHAPTER 2

BACKGROUND

2.1 Preliminaries

Availability of information should be easier. To make this happen data collection is a big issue. Not only data collection but also the data must be authentic. Proper data helps or makes our work easier. This is the important factor of this project is to collect data and store them in database.

2.2 Related Works

There are some development projects which are related to health sector like Health Tips, Healthy Diet, Blood Bank etc.

2.3 Comparative Analysis

Collecting information is a big challenge. Because through this project people will get information of nearby hospital, blood bank, available ambulance service, drug store all over the country. Also collecting information of medicine and health tips like causes of health issue, symptoms, treatment. Data must be authentic.

2.4 Scope of the Problem

Screen size of different smart devices is a big issue to develop this project. Sometimes we face this problem that for different screen size application cannot run properly. Some part of the application is not available to the user for different screen size.

2.5 Challenges

Data collection of hospital, blood bank, ambulance service, drug store like address, phone number, e-mail etc is a big issue. Data of medicine like price, generic name, company name, etc and primary health tips like causes of health issue, symptoms, treatment. Another big factor is the authentication of data.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

The following figure 3.1.1. shows the system modeling of Business Process and the figure 3.1.2 shows the Business Model Integration.

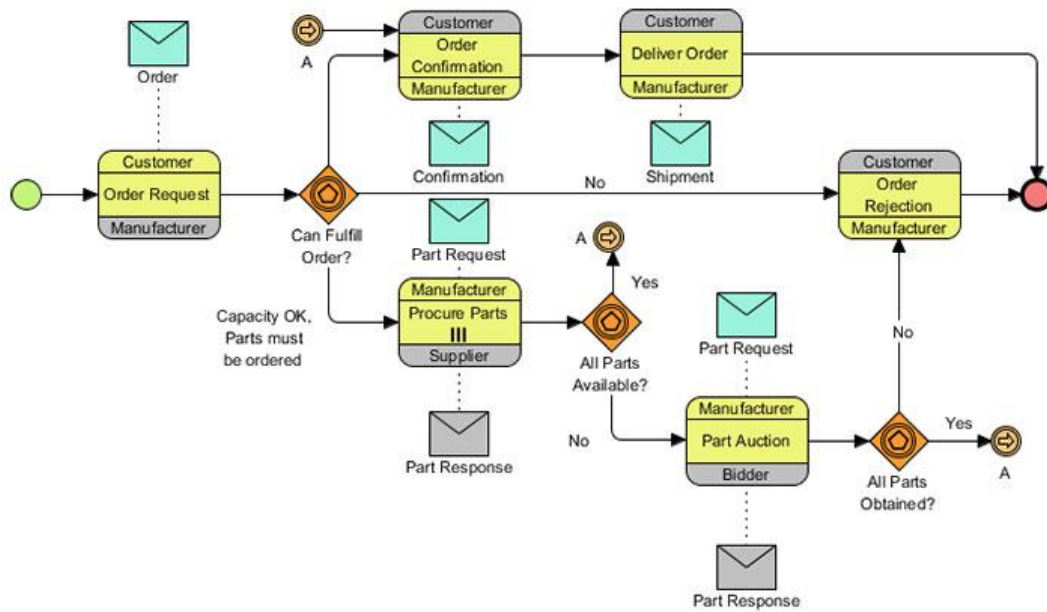


Figure 3.1.1: Process Modeling

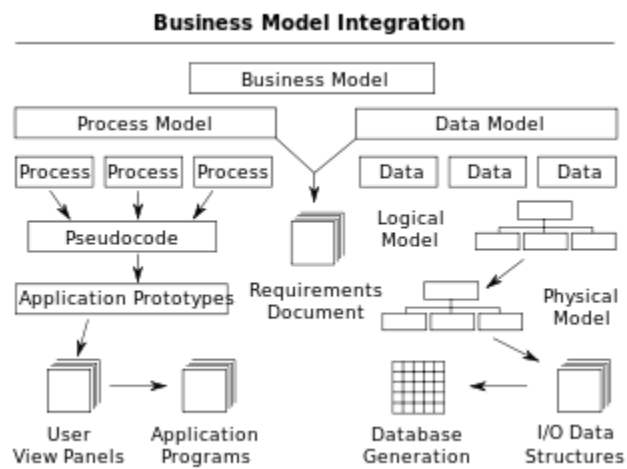


Figure 3.1.2: Business Model Integration

3.2 Use Case Modeling and Description

In this application there is one main actor. The actor named User who is using the system.

3.2.1 Use Case Diagram

Actors

User : User can view all the information.

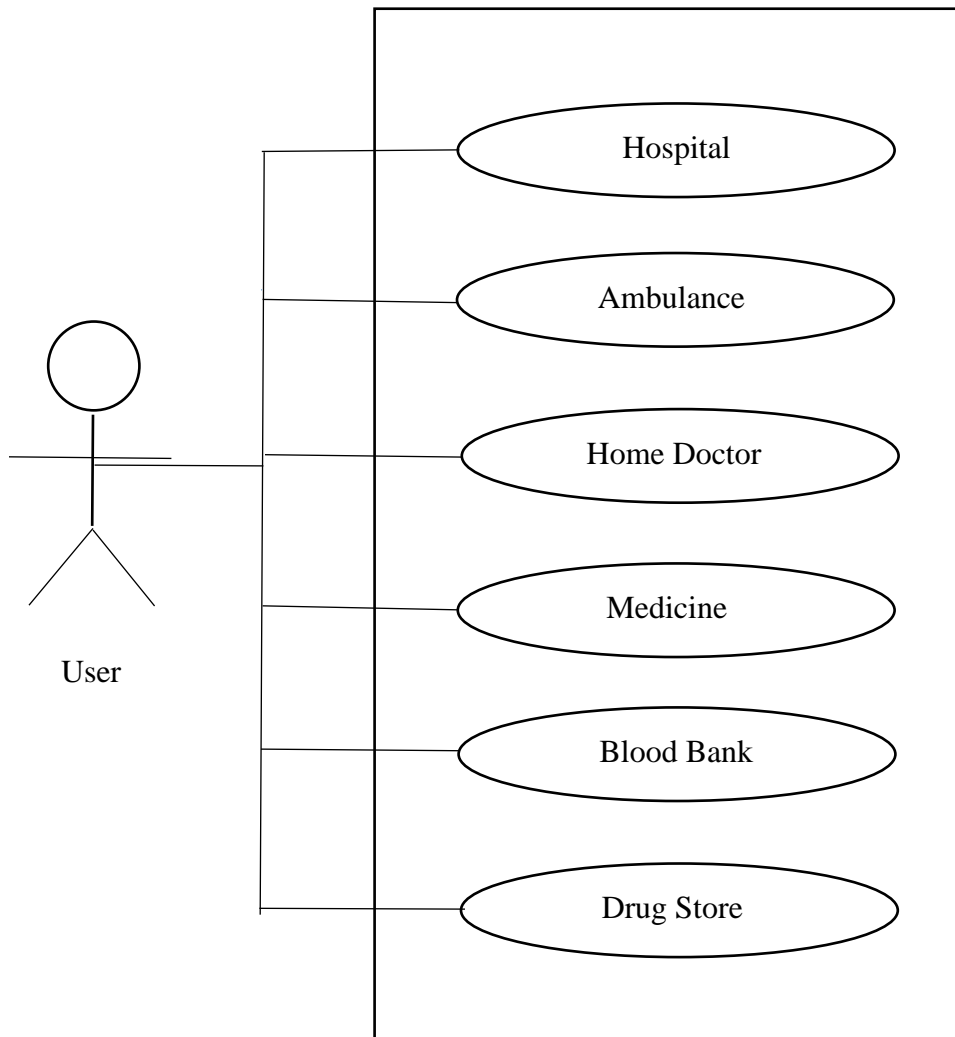


Figure 3.2.1: Use case diagram of the system.

3.2.2 Use Case List

UC – User

User can view all information.

3.3 Logical Data Model

The following figure 3.4.1 shows the Logical Data Model.

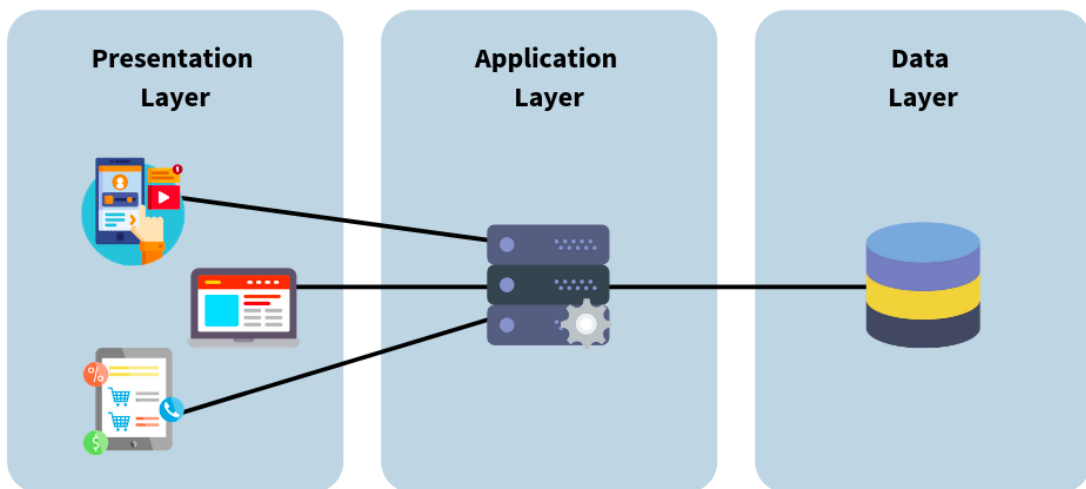


Figure 3.3: Logical Data Model.

3.4 Design Requirement

The following figure 3.5 shows the Design Requirement.

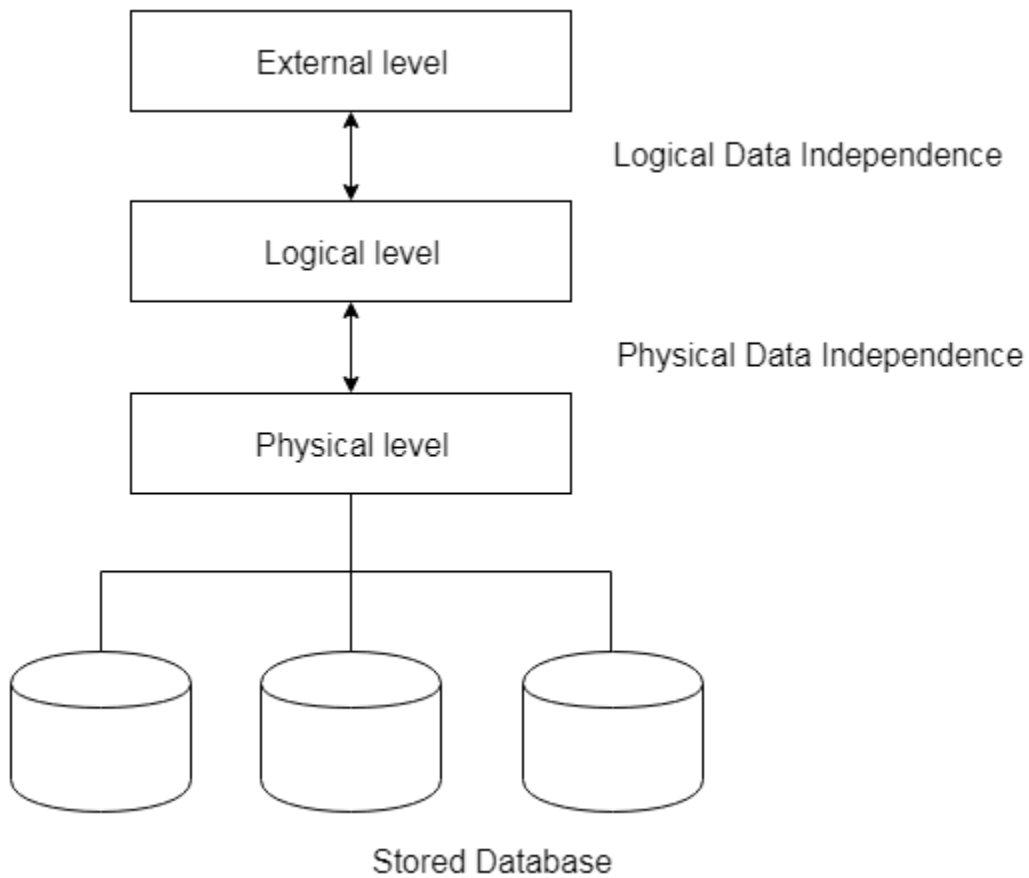


Figure 3.4 : Design Requirements Diagram

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

An android application has two parts : the front end and the back end. The front end is the visual part of the application. Through this part user interact with the application. Front end helps user to understand that what kind of operation he or she has to perform.

4.1.1 IDE and Tools

Android Studio :

Android studio is an integrated development environment for Android applications. Android Studio provides code editing, debugging and testing tools all within it. It is easy to use. Drag and drop option is available for user interface design.

AVD Manager :

AVD manager is another useful feature of Android studio, the short form for Android Virtual Device. AVD is an emulator which is used to run android application on computer. This allows developers to work with all types of android devices to test performance on different screen size, versions and resolutions.

4.2 Back-end Design

In this project we work with android. For the Back-end design, we use java. We all know java is used for a lot of development work.

4.3 Interaction Design and User Experience (UX)

The following figure 4.3 shows the Basic Structure of User Experience.

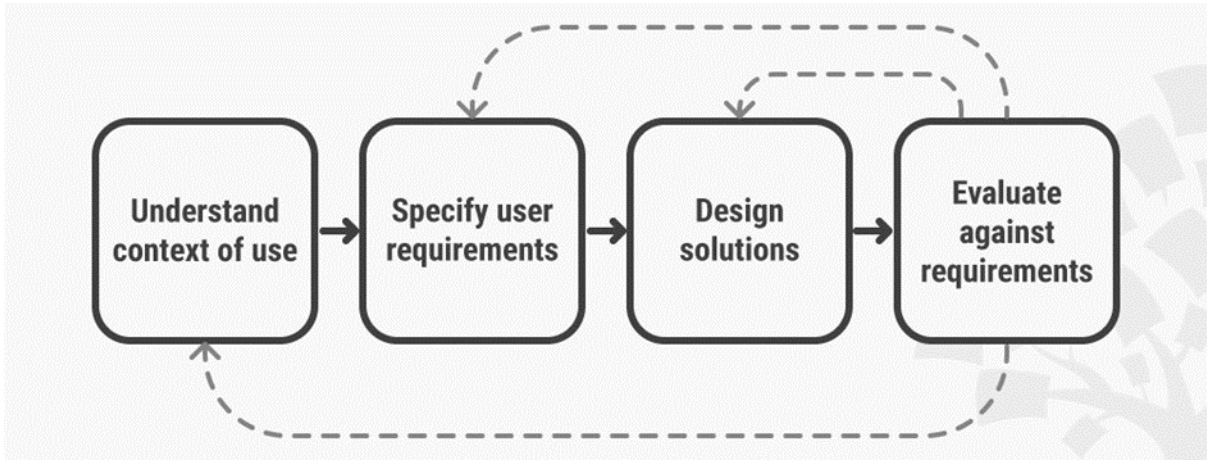


Figure 4.3: Basic Structure of User Experience

4.4 Database Design

The following table 4.4.1 shows the attribute, data type, key of Hospital information table.

Field Name	Data Type	Primary key	Default Value	Description
id	Int	Primary key		
name	Varchar			
type	Varchar			
specialty	Varchar			
phone	Varchar			
address	Varchar			
district_id	Int			
area	Int			
web	Varchar			
latitude	Decimal			
longtitude	Decimal			

Table 4.4.1: Existing Hospital Information.

The following figure 4.4.1 shows the Database Table of Hospital Information.

id	name	type	specialty	phone	address	district_id	area	web
4	Advanced Eye Center	Hospital	Eye Hospital	01552337567,01716165353	5/17, Humayun Road, Colle...	1	102	http://advancede
5	Ahmed Medical Center (De...	Hospital	Eye Hospital	01731185782	House No. 71/1, Road No. ...	1	137	null
6	Ahsania Mission Cancer & ...	Hospital	Cancer Hospital	029008919,029032252	Plot No. M-1/C, Section-14, ...	1	96	http://ahsaniaca

Figure 4.4.1 : Hospital Table.

The following table 4.4.2 shows the attribute, data type, key of Ambulance information table.

Field Name	Data Type	Primary Key	Default Value	Description
id	Int	Primary key		
name	Varchar			
phone	Varchar			
address	Varchar			
district_id	Int			
area	Int			
latitude	Decimal			
longtitude	Decimal			

Table 4.4.2 : Existing Ambulance Information.

The following figure 4.4.2 shows the Database Table of Ambulance Information.

id	name	phone	address	district_id	area	latitude	longitude
1	Ad Din Hospital	10610,01713488411,0171348841...	2 Bara Maghbazar, Dhaka-1217, B...	1	100	23.7484613	90.4057556
2	Al-Markazul Islami Ambulance Ser...	029127867	Shyamoli Road No-3, Dhaka, bang...	1	151	23.7708342	90.3666717
3	Alif Ambulance	029131688	76 A west Panthapath , Dhaka 1215	1	124	23.7519827	90.3855688
4	Anjuman-E-Mufidul Islam	029336611,027411660,027410786	42 Anjuman Mufidul Islam Road k...	1	73	23.7382053	90.4072168

Figure 4.4.2 : Ambulance Table.

The following table 4.4.3 shows the attribute, data type, key of Home Doctor information table.

Field Name	Data Type	Primary Key	Default Value	Description
id	Int	Primary Key		
category_id	Int			
name	Varchar			
causes	Varchar			
image	Varchar			
favorite	Int			
symptoms	Varchar			
treatment	Varchar			

Table 4.4.3: Existing Home Doctor Information.

The following figure 4.4.3 shows the Database Table of Home Doctor Information.

id	category_id	name	intro	causes	image	favorite	symptoms
1	9	Red Eye (Eye Redness)	Eye redness refers to a red ...	* Allergies * Blepharitis * ...	assets://recipes/red_eye.jpg	0	* Pain * Changes i
2	3	Pigmentation on Skin	Your skin color is determine...	* Emotional distress * Su...	assets://recipes/pigmentatio...	0	* Rapid pigment los
3	3	Allergies	Allergies, also known as all...	* Airborne allergens * Cer...	assets://recipes/allergies.jpg	0	* Skin rash * Head
4	4	Asthma	Asthma is a common long t...	* Allergies * Smoke and t...	assets://recipes/asthma.jpg	0	* Shortness of brea
5	8	Back Pain/Backache	Back pain is pain felt in the ...	* Muscle or ligament strain...	assets://recipes/back_pain.jpg	0	* Weight loss * Ele

Figure 4.4.3 : Home Doctor Table.

The following table 4.4.4 shows the attribute, data type, key of Medicine information table.

Field Name	Data Type	Primary Key	Default Value	Description
brand_id	Int			
generic_id	Int			
comapy_id	Int			
brand_name	Varchar			
form	Varchar			
strength	Varchar			
price	Float			
packsize	Varchar			
generic_name	Varchar			
company_name	Varchar			

Table 4.4.4 : Existing Medicine Information.

The following figure 4.4.4 shows the Database Table of Medicine Information.

brand_id	generic_id	company_id	brand_name	form	strength	price	packsize	generic_name	company_na
10	386	183	Xeoflox	Tablet	500mg	361	30's pack	Ciprofloxacin	Oyster Pharm.
13	571	183	Domider	Suspension	5 mg/5 ml	28	1's pack	Domperidone	Oyster Pharm.
16	48	183	Flintex	Syrup	15 mg/5 ml	28	null	Ambroxol	Oyster Pharm.
18	992	183	Menida	Tablet	400mg	100	100's pack	Metronidazole	Oyster Pharm.

Figure 4.4.4 : Medicine Table.

The following table 4.4.5 shows the attribute, data type, key of Blood Bank information table.

Field Name	Data Type	Primary Key	Default Value	Description
id	Int			
name	Varchar			
phone	Varchar			
address	Varchar			
district_id	Int			
area	Int			
web	Varchar			
latitude	Decimal			
longitude	Decimal			

Table 4.4.5 : Existing Blood Bank Information.

The following figure 4.4.5 shows the Database Table of Blood Bank Information.

id	name	phone	address	district_id	area	web	latitude	longitude
5	Islami Bank Central Hospital	029355801, 029355802, 02...	30, Anjuman-e-Mofidul Isla...	1	73	null	23.7375234	90.4097794
27	Sandhani Chittagong	31616625	Chittagong Medical College ...	11	374	null	22.3599524	91.8298546
28	Sandhani Comilla	1674317222	Comilla Medical College Uni...	13	487	null	23.4515415	91.2029603
30	Sandhani Bogra	1980806767	Shahid Ziaur Rahman Medi...	7	292	null	24.8279041	89.3529388

Figure 4.4.5 : Blood BankTable.

The following table 4.4.6 shows the attribute, data type, key of Drug Store information table.

Field Name	Data Type	Primary Key	Default Value	Description
id	Int	Primary Key		
name	Varchar			
hours24	Varchar			
phone	Varchar			
address	Varchar			
district_id	Int			
area	Int			
latitude	Decimal			
longitude	Decimal			

Table 4.4.6 : Existing Drug store Information.

The following figure 4.4.6 shows the Database Table of Drug Store Information.

id	name	hours24	phone	address	district_id	area	latitude	longitude
1	Al-Helal Medicine Corner	Yes	029006820, 029008181	150, Rokeya Sarani, Senpara P...	1	96	23.8026833	90.3707483
2	Al - Sami Hospital With 24 our P...	Yes	null	South Badda, Dhaka	1	12	23.7804209	90.4262211
3	Aysha Memorial Specialised Ho...	Yes	029122689, 029122690, 02814...	74/G, Peacock Square, New Air...	1	101	23.7761238	90.3956617
4	24-hours Pharmacy	Yes	029670397, 029673512, 02967...	Plot 14/E, Road 6, Gonoshastay...	1	41	23.7434591	90.3826822
5	Badda General Hospital With 24...	Yes	028857828, 028857829, 02885...	Cha-107/2, North Badda, Progat...	1	12	23.7844053	90.4256813
6	Bismillah Pharma	Yes	1191119526	1/7, College Gate, Mirpur Road,...	1	152	23.8223486	90.3654204

Figure 4.4.6 : Drug Store Table.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

The following Figures 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5 and 5.1.6 show the Data Set.

id	name	type	specialty	phone	address	district_id	area	web
4	Advanced Eye Center	Hospital	Eye Hospital	01552337567,01716165353	5/17, Humayun Road, Colle...	1	102	http://advancede
5	Ahmed Medical Center (De...	Hospital	Eye Hospital	01731185782	House No. 71/1, Road No. ...	1	137	null
6	Ahsania Mission Cancer & ...	Hospital	Cancer Hospital	029008919,029032252	Plot No. M-1/C, Section-14, ...	1	96	http://ahsaniaca

Figure 5.1.1 : Hospital Data Set.

id	name	phone	address	district_id	area	latitude	longitude
1	Ad Din Hospital	10610,01713488411,0171348841...	2 Bara Maghbazar, Dhaka-1217, B...	1	100	23.7484613	90.4057556
2	Al-Markazul Islami Ambulance Ser...	029127867	Shyamoli Road No-3, Dhaka, bang...	1	151	23.7708342	90.3666717
3	Alif Ambulance	029131688	76 A west Panthapath , Dhaka 1215	1	124	23.7519827	90.3855688
4	Anjuman-E-Mufidul Islam	029336611,027411660,027410786	42 Anjuman Mufidul Islam Road k...	1	73	23.7382053	90.4072168

Figure 5.1.2 : Ambulance Data Set.

id	category_id	name	intro	causes	image	favorite	symptoms
1	9	Red Eye (Eye Redness)	Eye redness refers to a red ...	⊗ Allergies ⊗ Blepharitis ⊗ ...	assets://recipes/red_eye.jpg	0	⊗ Pain ⊗ Changes i
2	3	Pigmentation on Skin	Your skin color is determine...	⊗ Emotional distress ⊗ Su...	assets://recipes/pigmentatio...	0	⊗ Rapid pigment los
3	3	Allergies	Allergies, also known as all...	⊗ Airborne allergens ⊗ Cer...	assets://recipes/allergies.jpg	0	⊗ Skin rash ⊗ Head
4	4	Asthma	Asthma is a common long t...	⊗ Allergies ⊗ Smoke and t...	assets://recipes/asthma.jpg	0	⊗ Shortness of brea
5	8	Back Pain/Backache	Back pain is pain felt in the ...	⊗ Muscle or ligament strain...	assets://recipes/back_pain.jpg	0	⊗ Weight loss ⊗ Ele

Figure 5.1.3 : Home Doctor Data Set.

brand_id	generic_id	company_id	brand_name	form	strength	price	packsize	generic_name	company_na
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16	48	183	Flintex	Syrup	15 mg/5 ml	28	null	Ambroxol	Oyster Pharm.
18	992	183	Menida	Tablet	400mg	100	100's pack	Metronidazole	Oyster Pharm.

Figure 5.1.4 : Medicine Data Set.

id	name	hours24	phone	address	district_id	area	latitude	longitude
1	Al-Helal Medicine Corner	Yes	029006820, 029008181	150, Rokeya Sarani, Senpara P...	1	96	23.8026833	90.3707483
2	Al - Sami Hospital With 24 our P...	Yes	null	South Badda, Dhaka	1	12	23.7804209	90.4262211
3	Aysha Memorial Speciallised Ho...	Yes	029122689, 029122690, 02814...	74/G, Peacock Square, New Air...	1	101	23.7761238	90.3956617
4	24-hours Pharmacy	Yes	029670397, 029673512, 02967...	Plot 14/E, Road 6, Gonoshastay...	1	41	23.7434591	90.3826822
5	Badda General Hospital With 24...	Yes	028857828, 028857829, 02885...	Cha-107/2, North Badda, Progat...	1	12	23.7844053	90.4256813
6	Bismillah Pharma	Yes	1191119526	1/7, College Gate, Mirpur Road,...	1	152	23.8223486	90.3654204

Figure 5.1.5 : Blood Bank Data Set.

id	name	hours24	phone	address	district_id	area	latitude	longitude
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2	Al - Sami Hospital With 24 our P...	Yes	null	South Badda, Dhaka	1	12	23.7804209	90.4262211
3	Aysha Memorial Speciallised Ho...	Yes	029122689, 029122690, 02814...	74/G, Peacock Square, New Air...	1	101	23.7761238	90.3956617
4	24-hours Pharmacy	Yes	029670397, 029673512, 02967...	Plot 14/E, Road 6, Gonoshastay...	1	41	23.7434591	90.3826822
5	Badda General Hospital With 24...	Yes	028857828, 028857829, 02885...	Cha-107/2, North Badda, Progat...	1	12	23.7844053	90.4256813
6	Bismillah Pharma	Yes	1191119526	1/7, College Gate, Mirpur Road,...	1	152	23.8223486	90.3654204

Figure 5.1.6 : Drug Store Data Set.

5.2 Implementation of Front-end Design

The following Figure 5.2.1 shows the Implementation of Front-end Design

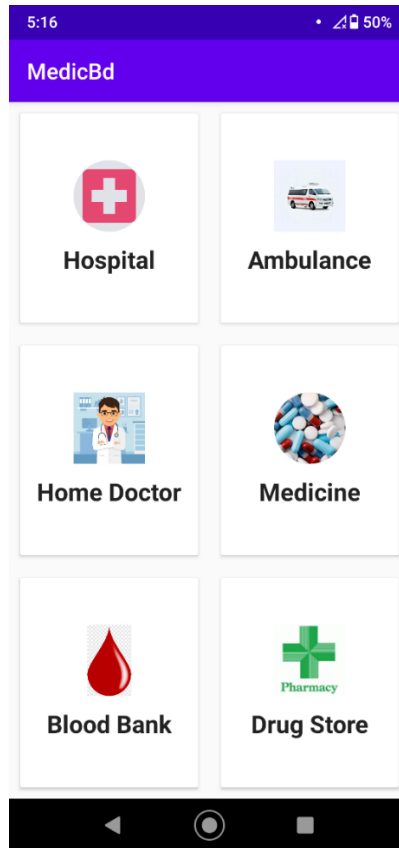


Figure 5.2.1 : Home page.

5.3 Testing Implementation

The following Figure 5.3.1 shows the Testing Implementation of Hospital Information

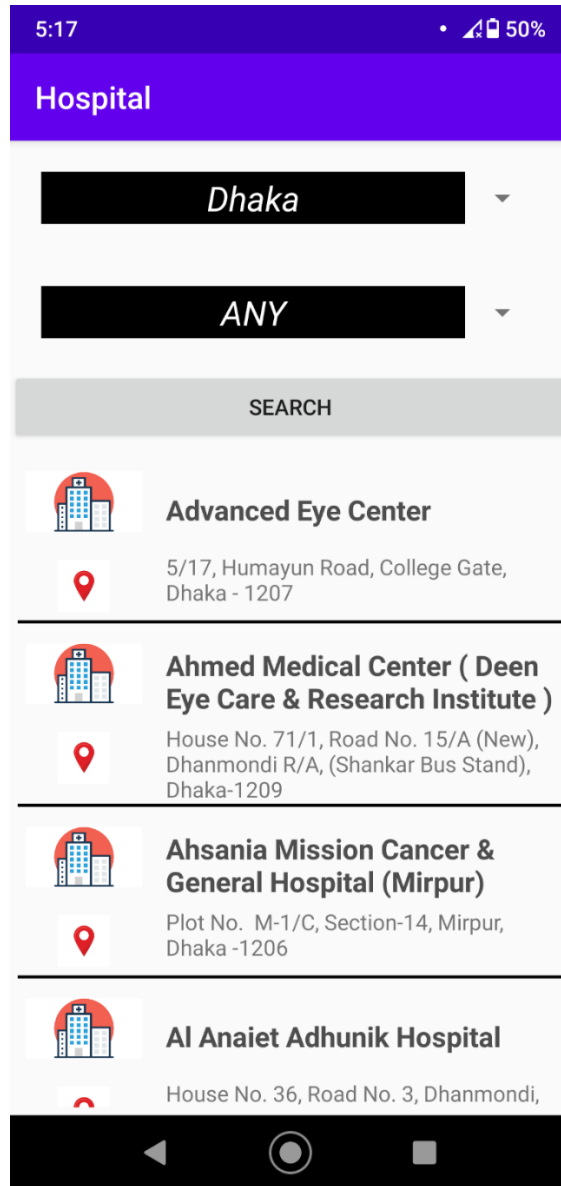


Figure 5.3.1: Hospital page.

The following Figure 5.3.2 and 5.3.3 shows the Testing Implementation of Home Doctor

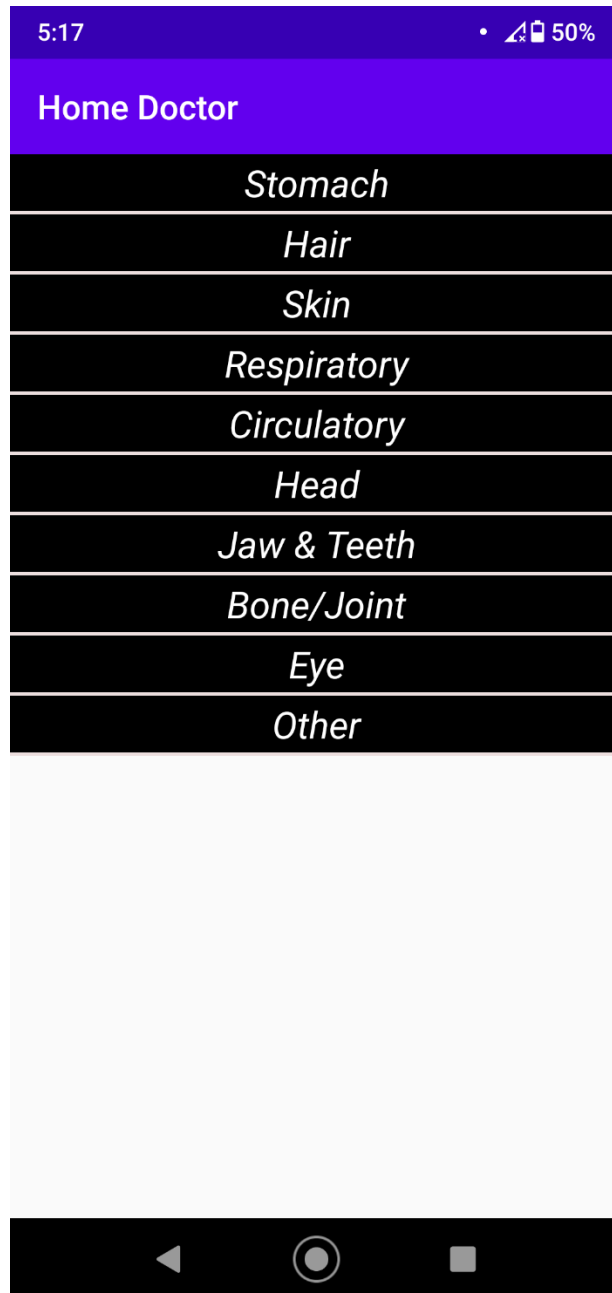


Figure 5.3.2 : Home Doctor page.

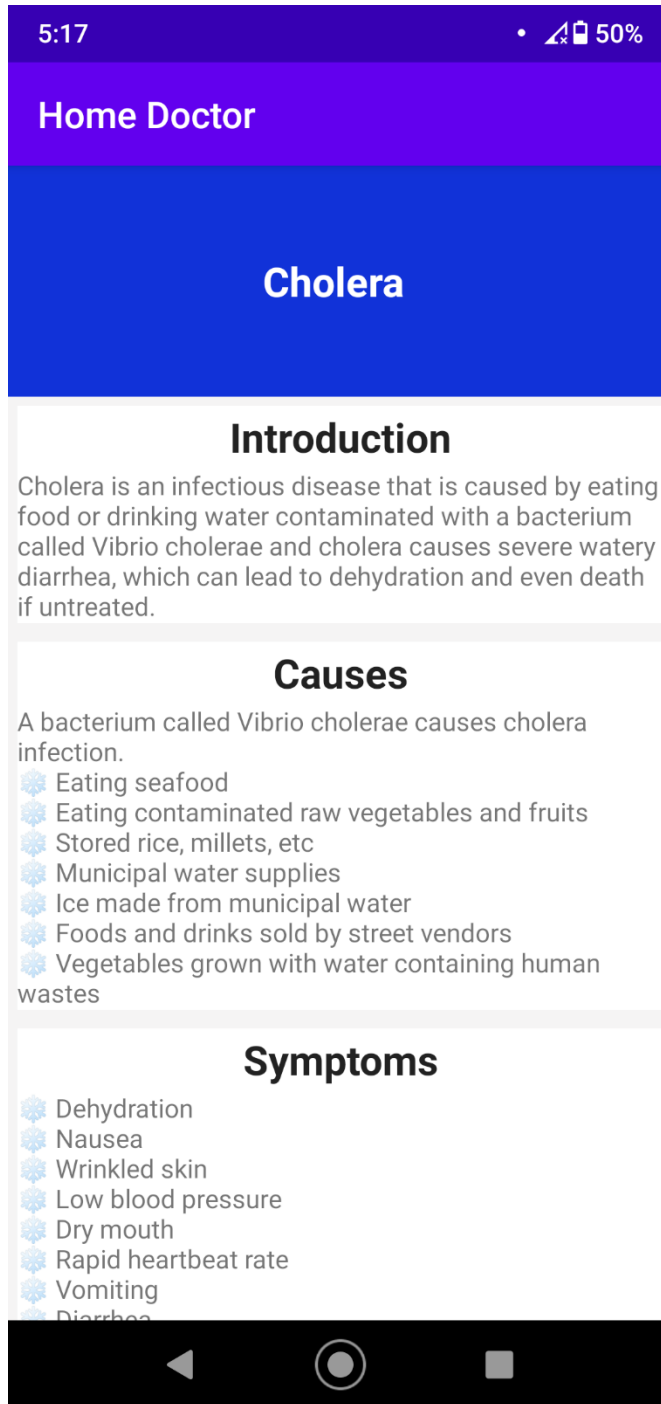


Figure 5.3.3 : Health Tips page.

The following Figure 5.3.4 and 5.3.5 shows the Testing Implementation of Medicine

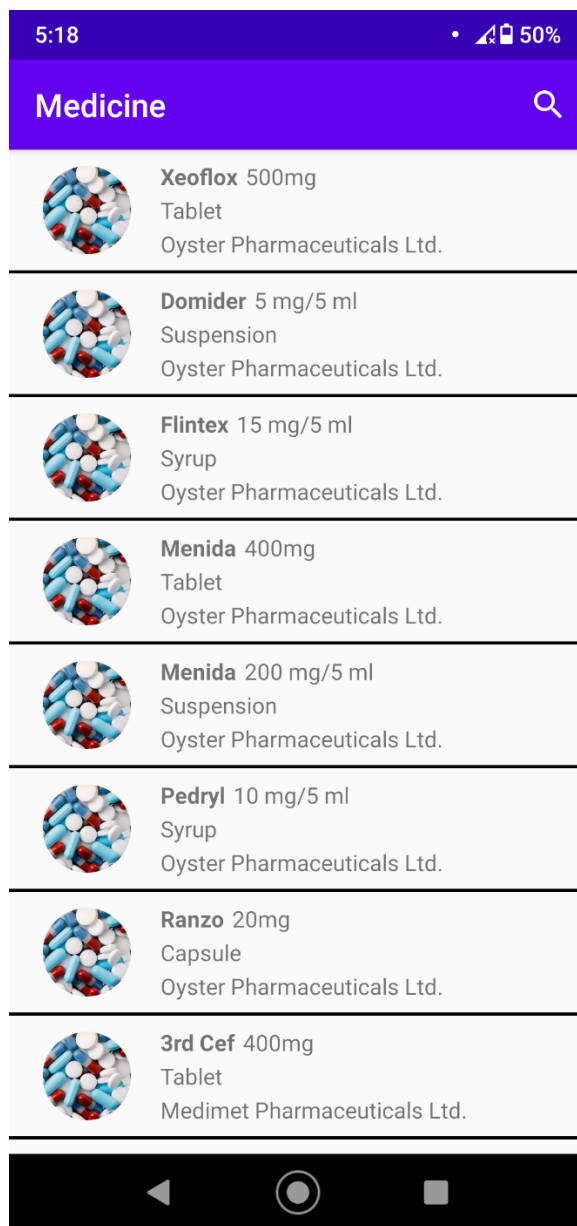


Figure 5.3.4 : Medicine Name List page.

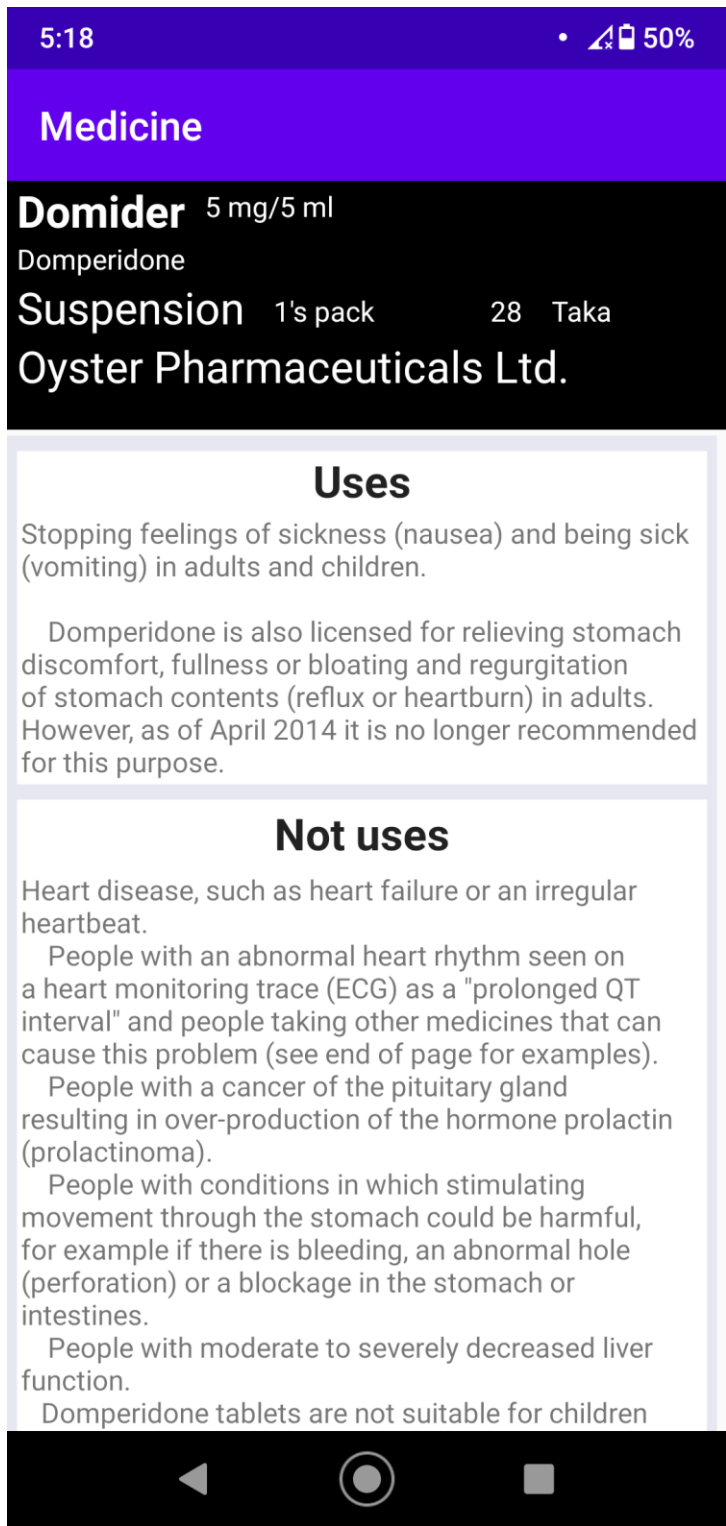


Figure 5.3.5 : Medicine Details page.

The following Figure 5.3.6 shows the Testing Implementation of Blood Bank Information

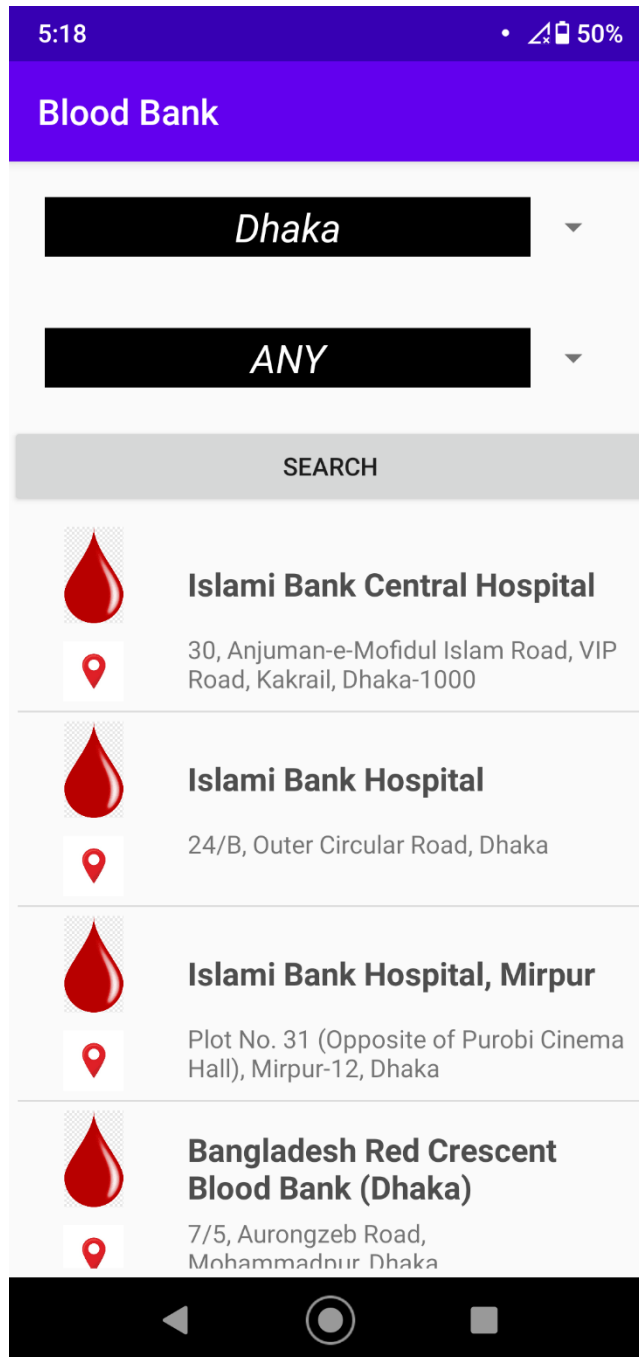


Figure 5.3.6 : Blood Bank address page.

The following Figure 5.3.7 shows the Testing Implementation of Drug Store Information.

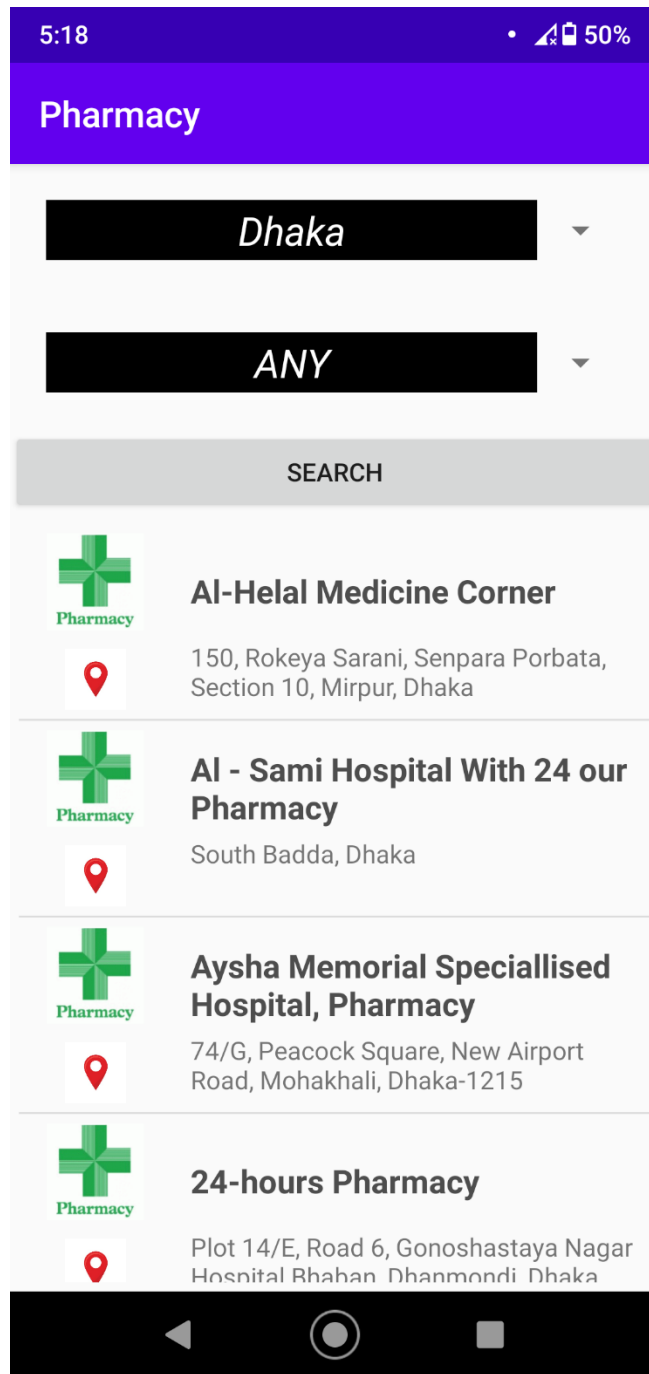


Figure 5.3.7 : Drug Store page.

CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

Now a days everything around us is upgrading. Day by day the use of technology is increasing rapidly. People want to handle their problems and works with the help of technology. Emergency health support like information of hospital, blood bank, ambulance service, medicine information and primary health tips will help people on their emergency health and medical issue and also have important impact on society. People life will be more easier.

6.2 Impact on Environment

The impact of this project in environment will be good because this project will reduce the use of paper. Usually we use paper to write down information. Through this application we can store information in database and people get information through smart devices. As a result pressure on paper will reduce. We know that paper made from tree. If use of paper will be decreased then deforestation rate will be low.

6.3 Ethical Aspects

In old days people use pen and paper to write down information. With the help of modern technology information collecting system is updating day by day. The outcome of this project, people get information in an efficient and technological way.

CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

In this era of modern technology world is in our hand. In this modern life everything has been digitalized. Android application is getting popular day by day. Now a day people want information through technology devices.

We are trying to help people to make their life easier through this project. We apply our Ideas and knowledge to complete this project.

Technology is a very smart way to get desire information. Day by day human requirements of information is getting increased. With the help of technology it is possible to meet the quest desire information of human. So we developed our application in demand of tomorrow's world.

7.2 Scope for Further Developments

In future we are going to develop this project in web page. Also we will try to add more features in this application according to demand. In future development we will provide location base service.

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A PROJECT ON DEVELOPING A MOBILE APPLICATION FOR EASILY FINDING MEDICAL SERVICES

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