Med - Help

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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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APPROVAL

This Project titled **" Med- Help",** submitted by Fatima Yesmin 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 17th January 2022.

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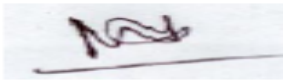

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Saima Afrin, Designation, 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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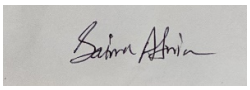

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ABSTRACT

In this project, I tried to make a Nearby Hospital finding system. Also, I included an emergency Ambulance finding feature. Users can easily find nearby hospitals and pharmacies through their smartphones. I also added other features like Blood donation information, users can request their desire blood group and they also be able to check blood donor distance, blood groups also will be shown in this feature. Different kinds of alerts from the government will be shown in Governmental Alerts. Another feature is .donate here user can donate for various charity or anyone needs donation through this app. In the medical history section, user can check their previous activities which taken through this application. In the ask doctor section, a user can ask for any kind of medical-related help. Users can navigate these features through their phones only. With Google Maps API this will be a great beneficial application for civilians of the country.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This project is all about helping people by providing medical services. Among all services, there are finding nearest hospital, pharmacy, blood bank and call an ambulance. These are the major part of this application. Besides, there is one option called "Medical Help" in this feature user can know about different types of diseases with symptoms, prevention. I've included BMI calculator for proper health fitness. This app also has a feature of notifying user about their time of taking medicine.

1.2 Motivation

In this era of technology there are lots of application based on medical help but those application doesn't have these all features. So, from that idea of these application I got an idea about making an application where all kind of medical features will be included with proper working methods. The incomplete working process of others medical app helps me to find a proper solution of this kind of medical problem. Some applications also providing same kind of service but those application doesn't work in our country. So, this was the reason to develop this Med-Help application for our country with accurate working process. I believe that people will be benefited and that will be our success.

1.3 Objective

The main purpose of this application is helping people by some medical related services. People can easily find nearby hospital, pharmacy, blood bank. They can also call an ambulance in their emergency. People will be benefited by knowing their proper BMI. They will be able to know about various symptoms and prevention of different diseases. The feature of notifying user to take their desire medicine timely. It will help user to remind about their medication timely.

1.4 Expected Outcome

1. If any emergency occurs or depending on the condition of the patient, it will be possible to take patient to a nearby hospital in a hurry.

2. Users will be able to easily inform the hospital by emergency contact number which is available.

3. An ambulance can be easily reached, if needed.

4. Blood donation will be so easy to help people.

CHAPTER 2

BACKGROUND

2.1 Comparative Studies

This app is a smart solution for reaching doctors, hospitals problem in an unknown place. Many apps in the market but no other app have all this requirement that I'm serving with Doctor Finder app. Now no one need to ask other about any doctor, what is his specialty, his degree or designation, how we can take appointment, address of chamber. One solution of all problems that is Med-Help app. Emergency Medical Services to make decision and to create a suitable model to direct the emergency

patients to appropriate hospital. The main theme of this study is to assist with emergency hospital resources management, to identify variable with significant role in decision taking. An

Emergency Medical Services has been designed to facilitate and computerize all the processes involved in an emergency situation. Emergency Patient. In current situation, Emergency Medical Services decide optimal hospital based on 'distance'. I've try to build a mobile app that have the solution of this problem. Development of Android Application Medical Information Guide is an Android application where I cover an overall solve of medical problem. When I research about this project then I find some medical related mobile and web based applications but they developed small parts of medical sectors. Now they can't give a proper solution

for medical problems. I want to development of Android Application on Medicals Information Guide. Here I provide a proper solution of medical related problems. This medical app was implemented successfully. Overall features work fine after connecting to the application via the firebase server.

2.2 Challenges

Some related API couldn't able to find out yet. So, I will develop those part in future.

CHAPTER 3:

REQUIREMENTS SPECIFICATION

3.1 Requirements

3.1.1 Med Help Application

► Hardware Requirements:

- Device: Mobile
- Minimum 15MB free Hard Drive space
- Global Positioning System (GPS)
- 256 MB RAM (recommended)
- Internet, GPS

► Software Requirements:

- Platform Version: Android 11 to low
- API Level: 30 to low
- Version Code: R to low
- Operating System: Android

3.2 Flowchart

3.2.1: Flowchart for Home Screen

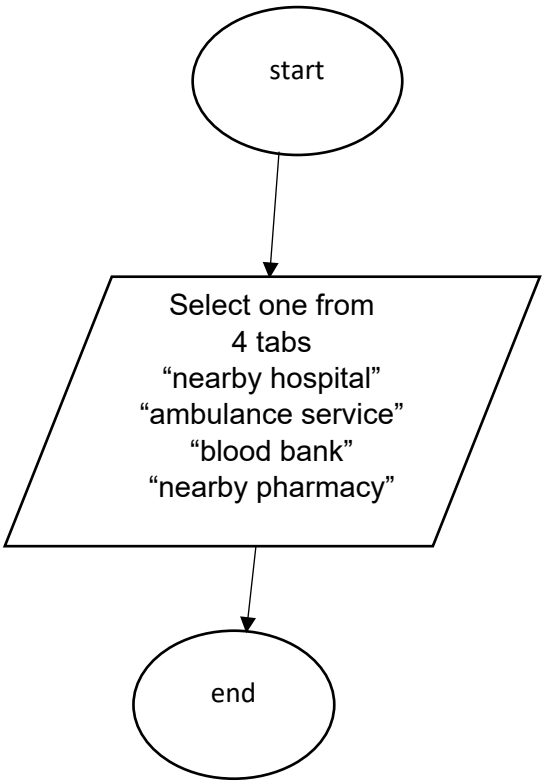


Fig:1

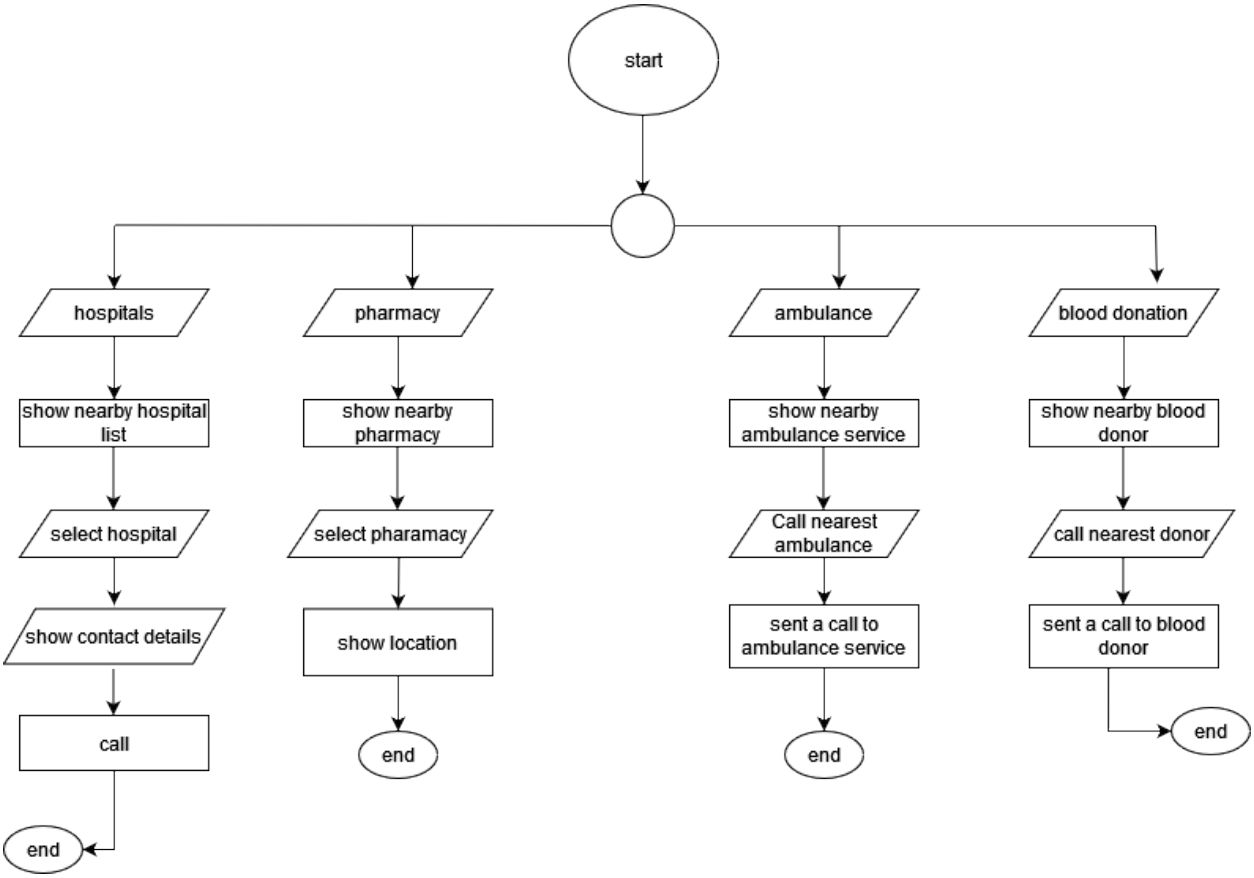


Fig: 2

3.3 Design requirements

►Use Microsoft word

►Use diagram.net

CHAPTER 4
DESIGN SPECIFICATION

4.1 Front-end Design

Front-end UI design implemented by Figma and developed by Android Studio.

4.2 Backend & Database

- ►Dart & Flutter.
- ►Firebase as data management.

4.2 Implementation Requirements

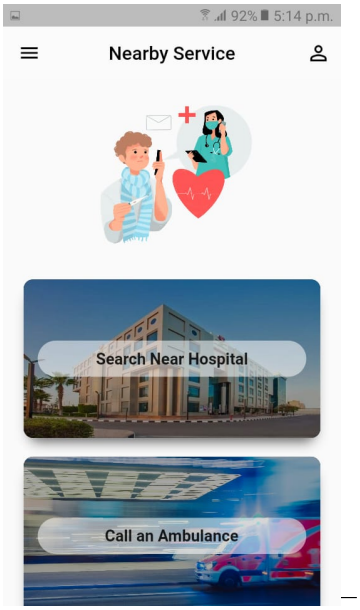
- ►Figma UI/UX Design
- ►Widgets of Dart language.

CHAPTER 5:

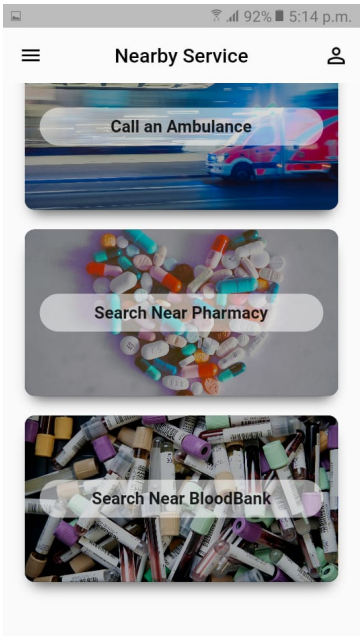
IMPLEMENTATION AND TESTING

5.1 Implementation of Front-end Design

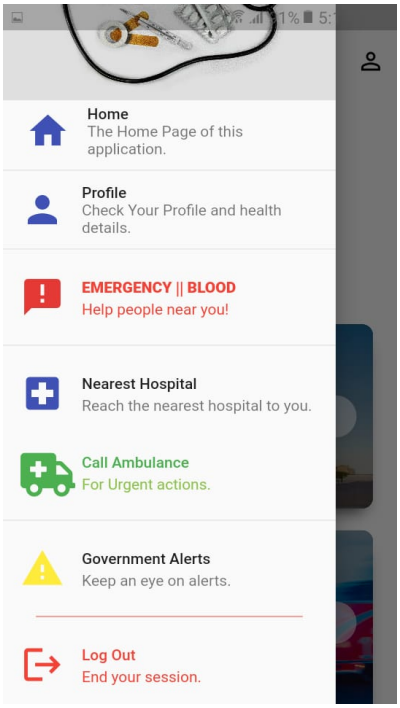
Home Page



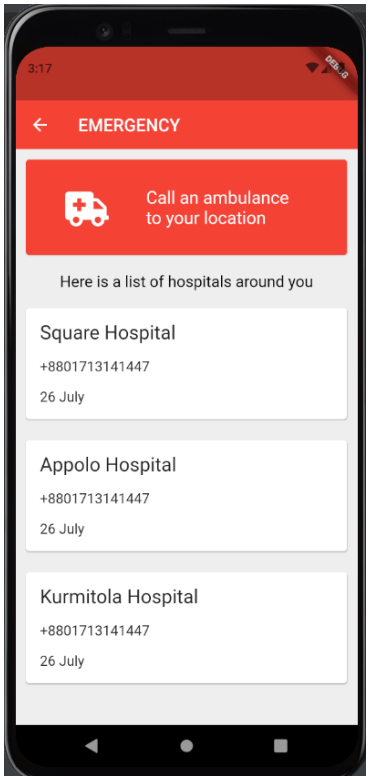
Nearby Services



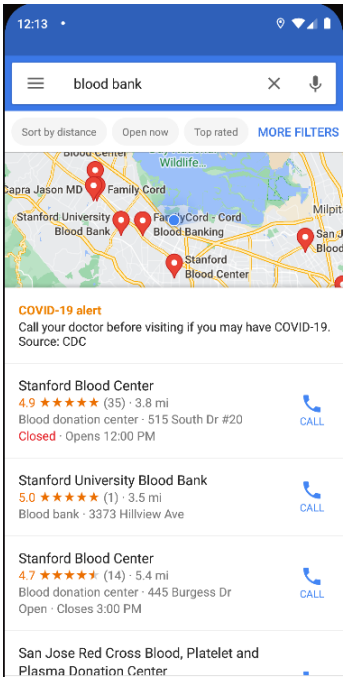
Side Bar



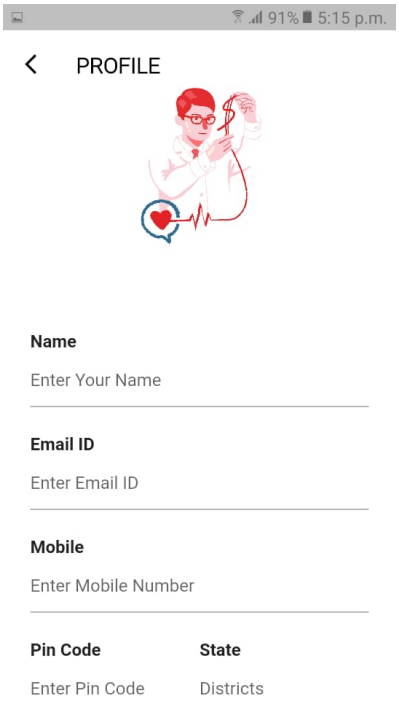
Ambulance Service



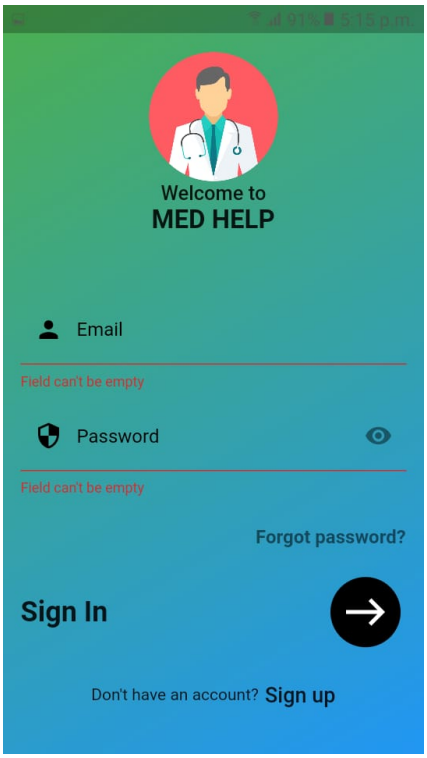
Blood Bank



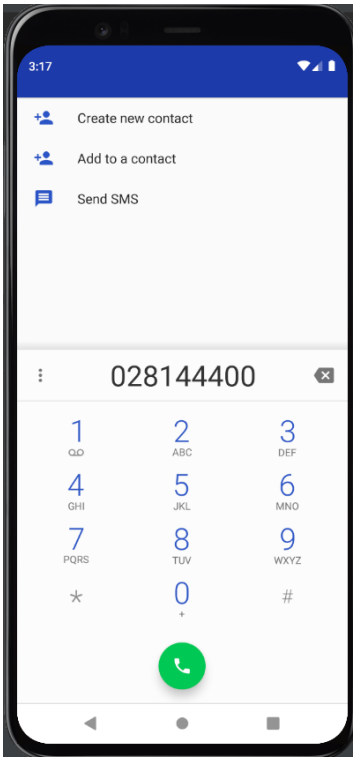
Profile



Sign In Page



Dial Pad



5.2 Test Results and Reports

Actions	Results	Expected Results
Nearest Hospital	Find Nearby Hospitals & Pharmacies by Google Map	Find Nearby Hospitals & Pharmacies by Google Map
Blood Bank	Get Blood Bank Details & Direct Call Option	Get Blood Bank Details & Direct Call Option
Emergency Ambulance	Get Ambulance Services Details & Direct Call Option	Get Ambulance Services Details & Direct Call Option

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

By means of this project I tried to make finding nearest hospital and pharmacy. Also finding nearest ambulance service easily and digital for all the people in our country. In this era most of the people are using smartphone and online shopping is becoming popular day by day. So I hope that this application "Med-Help" will help everyone to finding nearest hospitals in area. Also, I added nearest pharmacy finding system so that people can easily buy their medicines. For using this feature no need to download another app. I believe that people will be benefited and that will bring success.

6.2 Scope for further development

1. Easily finding nearest ambulance using by map.
2. Booked seat for patient in hospital.
3. Find blood in needed time.
4. Also I will add some efficient features related to medical help.

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