

**A Project report on**

**MY CARE+**

A Dissertation submitted to JNTU Hyderabad in partial fulfillment of the academic requirements for the award of the degree.

**Bachelor of Technology**  
**in**  
**Computer Science and Engineering**

Submitted by

**Batch - 28**

**19H51A05P0 - MOIN ASHIQ**

**19H51A05N8 - M. MOUNIKA**

**19H51A05P4 – N. HARIKA RATNA**

Under the esteemed guidance of

**Mrs. M. KAMALA**

(Assistant Professor)



**Department of Computer Science and Engineering**

**CMR COLLEGE OF ENGINEERING AND TECHNOLOGY**

(An Autonomous Institution under UGC & JNTUH, Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NBA.)

KANDLAKOYA, MEDCHAL ROAD, HYDERABAD - 501401.

**2019- 2023**

# CMR COLLEGE OF ENGINEERING & TECHNOLOGY

KANDLAKOYA, MEDCHAL ROAD, HYDERABAD – 501401

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



## CERTIFICATE

This is to certify that the Mini Project-1 report entitled "**MY CARE+**" being submitted by **Moin Ashiq(19H51A05P0), Madham Mounika(19H51A05N8), N.Harika Rathna(19H51A05P4)** in partial fulfillment for the award of **Bachelor of Technology in Computer Science and Engineering** is a record of Bonafide work carried out his/her under my guidance and supervision.

The results embody in this project report have not been submitted to any other University or Institute for the award of any Degree.

**Mrs. M. Kamala**

Asst.Professor

Dept. Of CSE

**Dr. S Shiva Skanda**

Professor and HOD

Dept. Of CSE

---

Submitted for viva voice Examination held on

---

External Examiner

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MOIN ASHIQ 19H51A05P0

M. MOUNIKA 19H51A05N8

N. HARIKA RATNA 19H51A05P4

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## **ABSTRACT**

This project is based on the Mobile Application for Online Consultancy for people all around the world. This App basically allows us to consult ourselves while sitting at our home. The main objective of this application is to help people to cure them and save their time, money and resources, and save their Lives heart as well. As we know in today's rush is difficult to take a doctor's appointment in Emergency ambulance. So, what to do until we get an appointment with doctor. That's where this App's comes into the action. A user can input their Symptoms and can get a list of Diseases they may possess. With the help of this application one can prevent their Diseases from spreading more. This can save someone's Life who cannot reach to the Doctor hospital in case of Emergency. They can at least take some action for preventing their Diseases.

## CHAPTER 1

### INTRODUCTION

Mycare+ is the use of mobile applications for provision and delivery affordable healthcare. It is a young and dynamic field that could be explored and harnessed to improve the health conditions of people around the world. The development of Mobile health applications can lower the costs of health care delivery and improve the quality of healthcare as well as shift behavior to strengthen prevention and treatment of reported cases at the, all of which can improve health outcomes over the long term. One of the main goals of using mobile technology in the health sector is to improve the quality of and access to health care. Because so many different factors can contribute to these aspects of healthcare, a wide variety of mobile health interventions have been implemented to address these issues.

#### Why MYCARE+ is important?

- Any age can use this app.
- Can get fast suggestions in hard time.
- Not worthy.
- With the aforementioned issues relating to the power of Mobile Health Technology in Ghana and the increasing use of smartphones and internet penetration among the Ghana populace as well as data from the Ghana Statistical Services and Ghana Aids Commission, it is estimated that the prevalence rate of sexually transmitted diseases in Ghana for the ages of 15-49 is 1.6% for 2015, showing that the category of the population most affected with sexually transmitted infection is the youth as well as the social stigma that is associated to it, hence this paper. In this paper the Mycare+ app is developed to address the issues raised above.

#### 1.1Need Statement

As we know today's in a rush it is difficult to take a doctor's appointment in an emergency. So, what to do until we get an appointment with a doctor. That's where this app comes into the action. A user can input their symptoms and can get a list of Diseases they may pose. Medi-chat app is going to be an indispensable tool for any user of an android operated smartphone in a manner that individuals will be given the platform and convenience to have a direct interaction concerning general health and STI (Sexually Transmitted Infections or diseases) issues with a qualified and certified doctor through the mobile devices of individuals anywhere.

#### 1.2 Objective, Scope & Limitation

##### 1.2.1 Objective

- Help people to cure them faster.

- Save their Time.
- Save money and resources.

### **1.2.2 Scope**

The Mycare+ app is going to be an indispensable tool for any user of an android operated smartphone in a manner that individuals will be given the platform and convenience to have a direct interaction concerning general health and STI (Sexually Transmitted Infections or diseases) issues with a qualified and certified doctor through the mobile devices of individuals anywhere.

### **1.2.3 Motivation behind selection of the project**

The main motive of this app will help reduce outpatient department cases and also reduce the overcrowding of prospective patients at our various hospitals in Ghana hospitals and also eliminate the inconvenience associated with one-on-one interaction with a doctor about illnesses and specifically STI infections. It will not only be a real-time chat app but also it will publish various health articles and other relative information to its users hooked on the mobile health platform.

### **1.2.4 Limitations**

Following are the currently persisting limitations in the application:

- Does not Cover up all the Diseases, as it will need ML as well as large Database.
- We have just prepared a Prototype.



## CHAPTER 2

### BACKGROUND WORK

#### 2.1 Introduction

The Mycare+ app is developed to address all common health problems but with sexually transmitted infections been our main focus and to enable immediate reporting of symptoms to health practitioners as well as alleviate the social stigma infected persons would face seeking for treatment

#### 2.2 Literature survey

1. Life-threatening conditions such as diabetes, hypertension and other cardiovascular diseases becoming more common, the need to change one's eating habits and to monitor one's lifestyle have become a necessity. However, going to the doctor frequently is very expensive, and preventive self-monitoring is now more practical and cost-effective. Furthermore, an organized health-monitoring and data-gathering system will make patient monitoring and case-by-case diagnosis and treatment easier. With the development of advanced mobile computing technology and interface able portable medical devices, this project aims to develop a health monitoring system with its cost-effectiveness, ease of data acquisition as features.
2. This project deals with a new reliable health monitoring system designed for affordable low cost wireless patient monitoring system. The patient monitoring and patient care is one of the major fields which lack proper technology in rural India hospital and homes. The main cause of patient death in many parts in India is mainly due to lack of critical health care devices for monitoring the patient. This is due to 4'A's- Affordability, Accessibility, Awareness and Availability. So this project deals with monitoring of the patient through wireless technology. The monitoring signals are finally obtained in Pc and Android mobile devices. A visualization module of the server program graphically displays the recorded biomedical signals on Android mobile devices used by patients and doctors at the end of the networks in real-time. Our approach is affordable for global health care solution is managed to process the large number of biomedical signals through wireless body area network and mobile technology for daily lifestyle to users efficiently. are still highly relevant and applicable to the current context of English language learning in Cambodia and beyond.
3. One of the increasing public concerns is human health. This paper proposes an integrated, portable & convenient solution to monitor vital health parameters like body temperature & heart rate on a regular day to day basis. These sensors are connected to microcontroller board Arduino Uno which transmits data wirelessly via Bluetooth on user's android enabled smartphone. The

results obtained are stored in the designed app, over a period of time. The patient details with the readings of the different parameters is transferred to the cloud. After each measurement, the results are compared with the threshold for each parameter. If the results are not as desired, then a summary with confirmed symptoms is displayed in the app. This summary can be uploaded on the cloud for consulting a remote doctor.

## 2.3 Existing solutions

### 1. Bisa Health App:

Bisa is a mobile application that allows users with an android or windows phone to interact directly with medical practitioners without having physical contact.

#### Demerits:

- i. Paid consultancy.
- ii. Login is must & data is stored.
- iii. Can be used by third party apps.

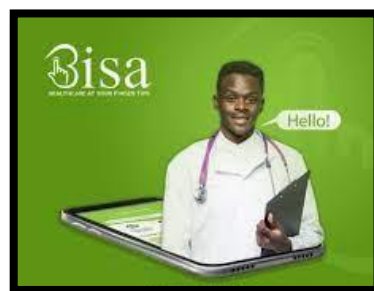


Fig 2.3.1

### 2. Lybrate - Consult a Doctor App:

Lybrate services like online consulting by booking appointments, about managing diabetes of parents living in a different city, or finding solutions to various pediatric problems of kids.

#### Demerits:

- i. Paid consultancy.
- ii. Only few diseases consultancy.
- iii. Must take appointment before.



Fig 2.3.2

### 3. Superdoc - Ask A Doctor Online App

Use Superdoc to ask a doctor about health or medical queries and get answers instantly! Can also live chat with a doctor, attach a picture of affected area or latest lab reports and get answers in few taps. Answer arrives in less than 15 minutes. It's free.

#### Demerits:

- i. No physical contact.
- ii. Must contain lab reports or patient affected area picture.
- iii. Not fastest as physical contact apps.



Fig 2.3.3

## CHAPTER 3

### PROPOSED SYSTEM

#### 3.1 Introduction

This section presents the research methodology used in the study, the research design, and the data collection process.

#### 3.2 Theoretical/ Conceptual Framework

This Project is entitled as Medi Consult. As the name itself suggest it is a Medical App. It takes Symptoms as user's inputs and displays the list of Diseases as per priorities based on list of Symptoms provided by User.

- WELCOME PAGE
- HOME PAGE
  - Name
  - Age
  - Gender
- DISEASE CHECKER
  - Entering the Symptoms
  - Displaying of Diseases
  - Link for Detailed Information
- NEARBY HOSPITALS
- SOS CALL
  - Enter Number
- CONTACT US
  - Call
  - Mail
  - Location

##### 3.1.1 Hardware Requirements

- Processor: i3/i5/i7 8gen or above
- Processor Speed: 2.16GHZ or above
- RAM: 3 GB RAM or above
- Storage: 20 GB hard disk or above
- 1280 X 800 MINIMUM SCREEN RESOLUTION

### **3.1.2 Software Requirements**

- Android Studio 3.4/3.5
- Adobe XD
- JDK 11.0.1

### **3.3 ADVANTAGES**

- Any age can use this app.
- Can get fast suggestions in hard time.
- Not worthy.
- save their Time.
- Save money and resources.

## **CHAPTER 4**

### **DESIGNING**

#### **4.1 Preliminary design**

For developing an Android Application, I've used Android Studio software. It is an open-source software. I've designed UI in Android Studio using XML.

We had worked effectively and have undertaken the following tasks:

- Researching in the related field of Diseases
- Creating a Design of Flow
- Connecting to Google Maps
- Coding the logic
- Make UI for application
- Testing the application for runtime errors and bugs
- Fixing the Bugs
- Concluding the code and hence the project

##### **4.1.1 Installing Android Studio**

Android Studio is an open-source software. You can download and set up it from the official website. After installing Android Studio, you have to setup the path for SDK and download the desired API and desired emulator to test your application.

##### **4.1.2 Creating UI**

You can design UI using XML in Android Studio. To create attractive UI, you can also use Adobe XD.

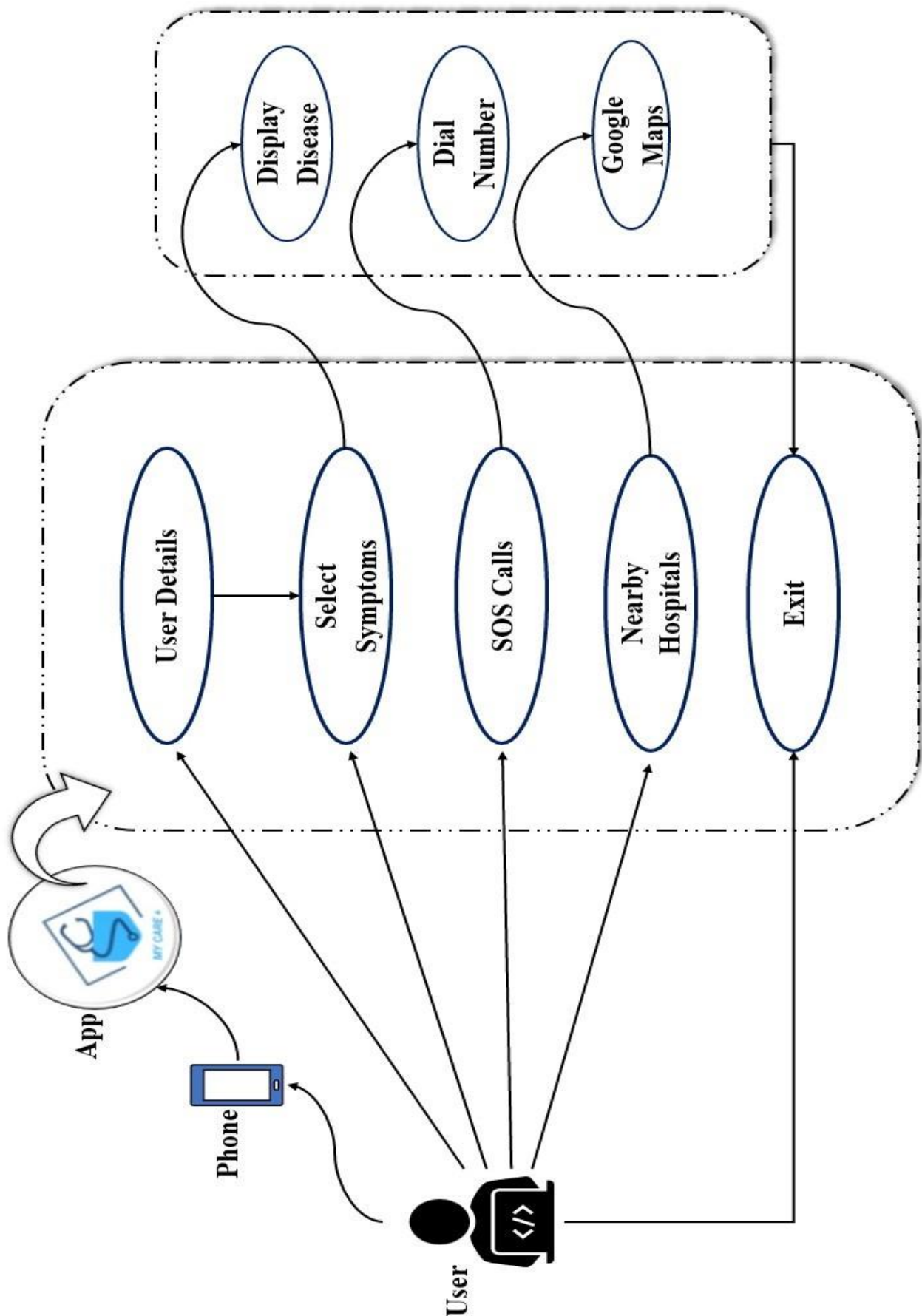
##### **4.1.3 Major Functionalities**

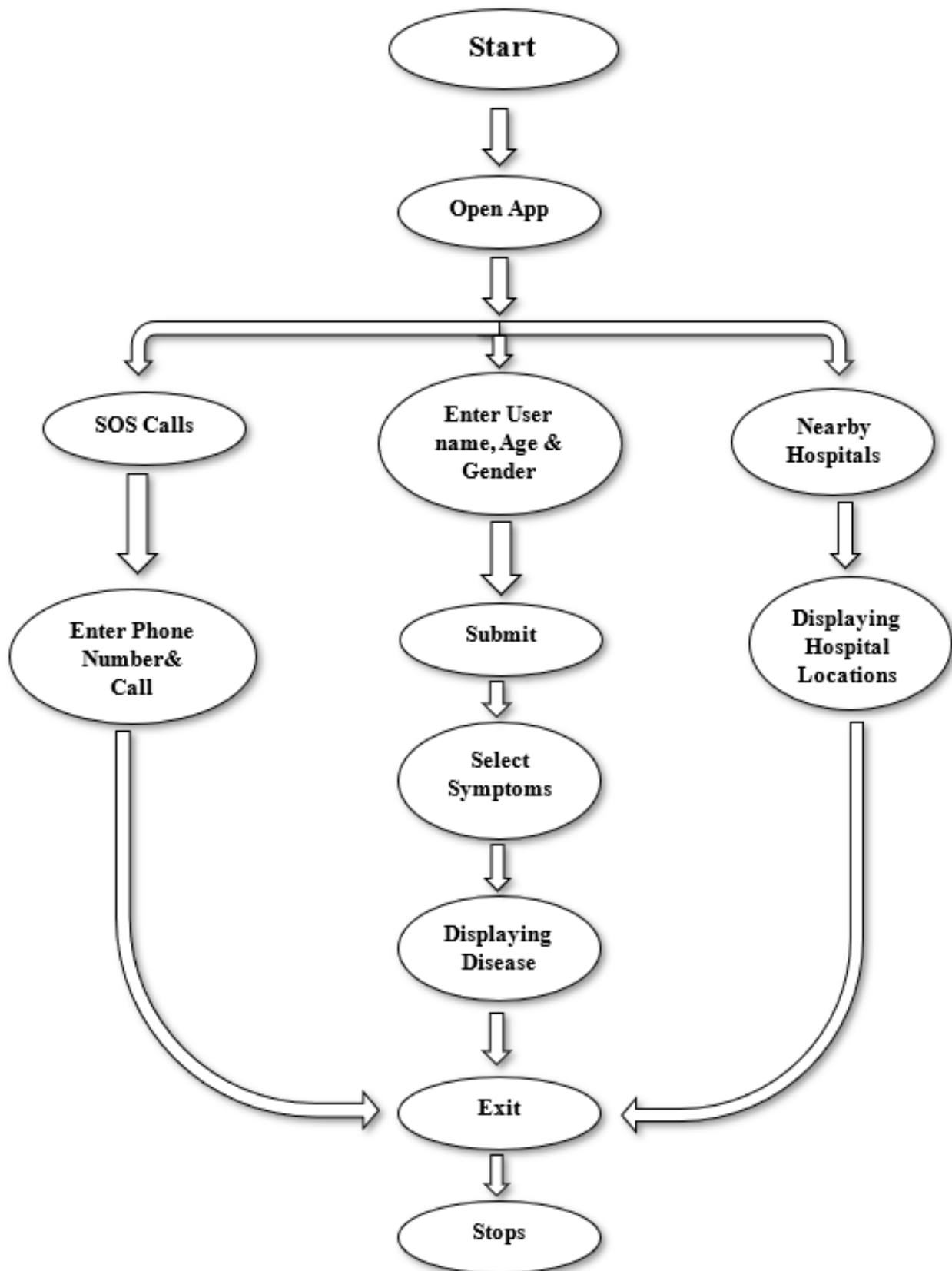
This project includes main 3 functions:

- Symptoms Checker
- Nearby Hospitals
- SOS Call

### 4.1.1 UML Diagrams

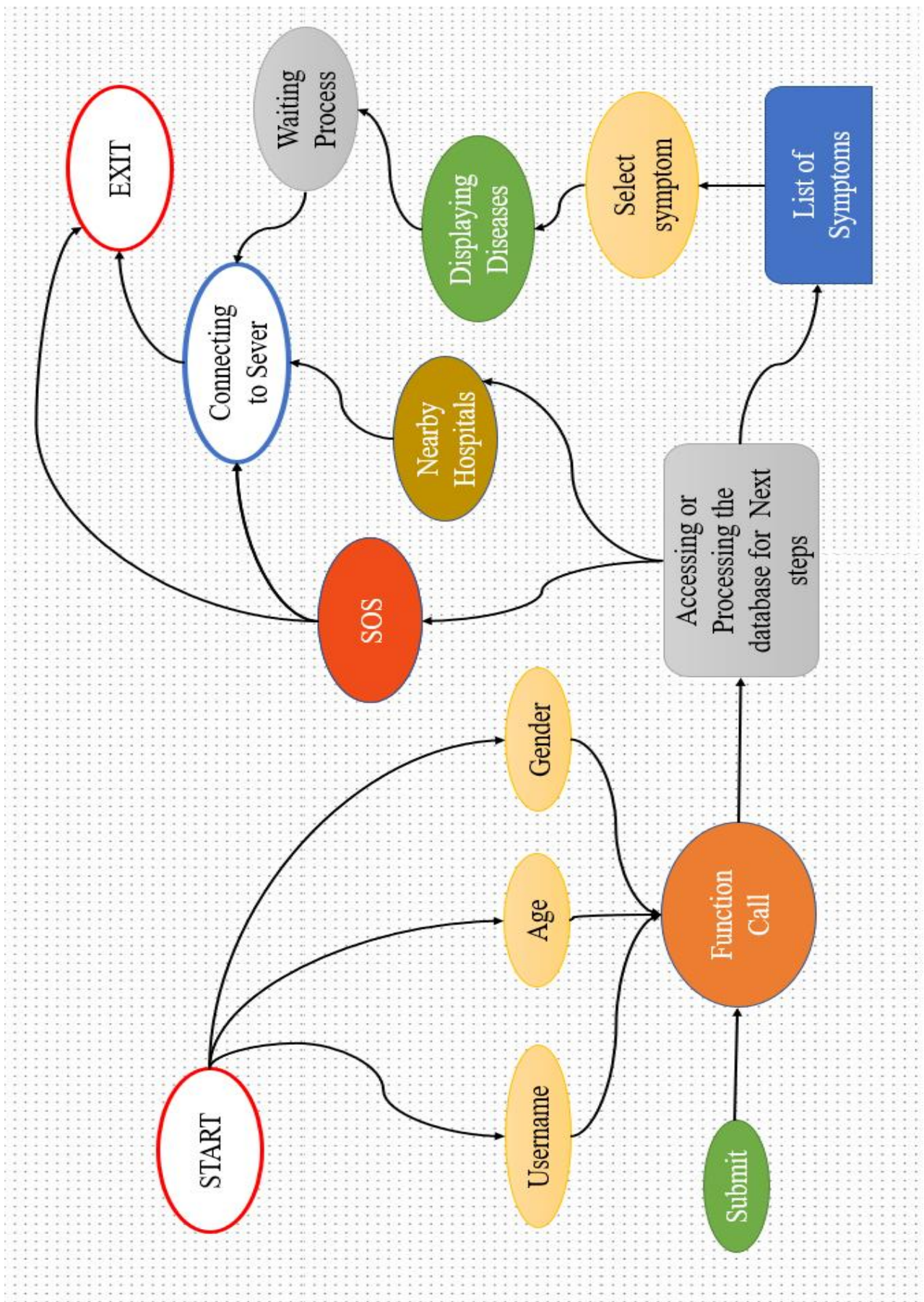
i. Use-case Diagram:



**ii. Activity Diagram**



## 4.2 Data Control Flow Design:





## CHAPTER 5: RESULTS AND DISCUSSION

### 5.1 Implementation:

#### 5.1.1 Main Code

##### CONSOLE

```
package com.ndkapp.www.MYCARE;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import java.util.Timer;
import java.util.TimerTask;

public class home extends AppCompatActivity {
    Timer t;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.home);

        t = new Timer();
        t.schedule(new TimerTask() {
            @Override
            public void run() {
                Intent i1 = new Intent(home.this, MainActivity.class);
                startActivity(i1);
                Log.d("homeactivity", "home gone");
                finish();
            }
        }, 2000);
    }
}
```

**Main Code:**

```

package com.ndkapp.www.MYCARE;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import androidx.annotation.NonNull;
import androidx.appcompat.widget.Toolbar;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout ;
import com.google.android.material.navigation.NavigationView;
public class MainActivity extends AppCompatActivity
{
    Toolbar t;
    DrawerLayout drawer;
    EditText nametext;
    EditText agetext;
    ImageView enter;
    RadioButton male;
    RadioButton female;
    RadioGroup rg;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        drawer = findViewById(R.id.draw_activity);
        t = (Toolbar) findViewById(R.id.toolbar);
        nametext = findViewById(R.id.nametext);

```

```

agetext = findViewById(R.id.agetext);
enter = findViewById(R.id.imageView7);
male = findViewById(R.id.male);
female = findViewById(R.id.female);
rg=findViewById(R.id.rg1);
//getSupportActionBar().setTitle("MY CARE");
ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(this, drawer, t,
R.string.navigation_drawer_open, R.string.navigation_drawer_close);
drawer.addDrawerListener(toggle);
toggle.syncState();
NavigationView nav = findViewById(R.id.nav_view);
enter.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String name = nametext.getText().toString();
        String age = agetext.getText().toString();
        String gender= new String();
        int id=rg.getCheckedRadioButtonId();
        switch(id)
        {
            case R.id.male:
                gender = "Mr.";
                break;
            case R.id.female:
                gender = "Ms.";
                break;
        }
        Intent symp = new Intent(MainActivity.this,activity_symptoms.class);
        symp.putExtra("name",name);
        symp.putExtra("gender",gender);
        startActivity(symp);
    }
});
nav.setNavigationItemSelectedListener(new
NavigationView.OnNavigationItemSelectedListener() {
    @Override
    public boolean onNavigationItemSelectedListener(@NonNull MenuItem menuItem) {

```

```

        switch(menuItem.getItemId())
        {
            case R.id.nav_sos:
                Intent in = new Intent(MainActivity.this, call.class);
                startActivity(in);
                break;
            case R.id.nav_share:
                Intent myIntent = new Intent(Intent.ACTION_SEND);
                myIntent.setType("text/plain");
                startActivity(Intent.createChooser(myIntent,"SHARE USING"));
                break;
            case R.id.nav_hosp:
                Intent browserIntent = new Intent(Intent.ACTION_VIEW);
                browserIntent.setData(Uri.parse("https://www.google.com/maps/search/hospitals+near+me"));
                startActivity(browserIntent);
                break;
            case R.id.nav_cntus:
                Intent c_us = new Intent(MainActivity.this, activity_contact_us.class);
                startActivity(c_us);
                break;
        }
        drawer.closeDrawer(GravityCompat.START);
        return true;
    }
});
}
}

```

### **ACTIVITY SYMPTOMS**

```

package com.ndkapp.www.MYCARE;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.Spinner;

public class activity_symptoms extends AppCompatActivity {

```

```

Button dis;

Spinner s1,s2,s3,s4,s5,s6,s7;

String d[] = new String[7];

String diarrhoea[] = {"Stomach Ache","Nausea","Vomiting","Fever","Sudden Weight Loss"};

String malaria[] = {"Fever","Vomiting","Sweating","Muscle And Body Pain","Headaches"};

String typhoid[] = {"Fever","Headaches","Weakness/Fatigue","Abdominal Pain","Muscle Pain","Dry Cough","Diarrhoea/Constipation"};

String diabetes[] = {"Frequent Urination","Hunger","Thirsty Than Usual","Sudden Weight Loss","Blurred Vision","Skin Itching"};

String blood_pressure[] = {"Headaches","Blurred Vision","Chest Pain","Shortness in Breath","Dizziness","Nausea","Vomiting"};

String cardio_disease[] = {"Shortness in Breath","Fast Heartbeat","Indigestion","Pressure Or Heaviness In Chest","Anxiety"};

@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_symptoms);

    dis= findViewById(R.id.disease);

    s1 = findViewById(R.id.syp1);

    s2 = findViewById(R.id.syp2);

    s3 = findViewById(R.id.syp3);

    s4 = findViewById(R.id.syp4);

    s5 = findViewById(R.id.syp5);

    s6 = findViewById(R.id.syp6);

    s7 = findViewById(R.id.syp7);

    final String name = getIntent().getStringExtra("name");

    final String gender = getIntent().getStringExtra("gender");

    dis.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View view) {

            int c[] = new int[6];

            d[0] = s1.getSelectedItem().toString();

            d[1] = s2.getSelectedItem().toString();

            d[2] = s3.getSelectedItem().toString();

            d[3] = s4.getSelectedItem().toString();

```

```

d[4] = s5.getSelectedItem().toString();
d[5] = s6.getSelectedItem().toString();
d[6] = s7.getSelectedItem().toString();
for( int i = 0 ; i < 7 ; i++)
{
    for( int j=1 ; j <= 6; j++)
    {
        switch (j)
        {
            case 1 : {
                int l = 0;
                l = diarrhoea.length;
                for(int k=0 ; k<l ; k++ )
                {
                    if(d[i].equals(diarrhoea[k]) )
                    {
                        c[0]++;
                    }
                }
                break; }
            case 2: {
                int l = 0;
                l = malaria.length;
                for (int k = 0; k < l; k++) {
                    if (d[i].equals(malaria[k])) {
                        c[1]++;
                    }
                }
                break;
            }
            case 3: {
                int l = 0;
                l = typhoid.length;
                for (int k = 0; k < l; k++) {

```

```
        if (d[i].equals(typhoid[k])) {
            c[2]++;
        }
    }
    break;
}
case 4: {
    int l = 0;
    l = diabetes.length;
    for (int k = 0; k < l; k++) {
        if (d[i].equals(diabetes[k])) {
            c[3]++;
        }
    }
    break;
}
case 5: {
    int l = 0;
    l = blood_pressure.length;
    for (int k = 0; k < l; k++) {
        if (d[i].equals(blood_pressure[k])) {
            c[4]++;
        }
    }
    break;
}
case 6: {
    int l = 0;
    l = cardio_disease.length;
    for (int k = 0; k < l; k++) {
        if (d[i].equals(cardio_disease[k])) {
            c[5]++;
        }
    }
}
```

```

                break;
            }
        }
    }
}

int max = c[0];
for( int m=0; m<6 ; m++)
{
    if(c[m] > max)
        max = c[m];
}

Intent dis_page = new Intent(activity_symptoms.this,activity_disease.class);
dis_page.putExtra("name",name);
dis_page.putExtra("gender",gender);
dis_page.putExtra("max",max);
dis_page.putExtra("c",c);
startActivity(dis_page);
}
});
}
}

```

### **ACTIVITY DISEASE**

```

package com.ndkapp.www.MYCARE;

import androidx.appcompat.app.AppCompatActivity;

import androidx.cardview.widget.CardView;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.text.method.LinkMovementMethod;

import android.view.View;

import android.widget.ImageView;

import android.widget.TextView;

public class activity_disease extends AppCompatActivity {

```



```

TextView head ;
TextView info[] = new TextView[2];
CardView dis_content;
ImageView im[] = new ImageView[7];
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_disease);
    head = findViewById(R.id.card_head);
    dis_content = findViewById(R.id.cardView);
    im[0] = findViewById(R.id.content_disease1);
    im[1] = findViewById(R.id.content_disease2);
    info[0] = findViewById(R.id.info1);
    info[1] = findViewById(R.id.info2);
    String name = getIntent().getStringExtra("name");
    String gender = getIntent().getStringExtra("gender");
    int max = getIntent().getIntExtra("max",0);
    int[] c = getIntent().getIntArrayExtra("c");
    head.setText(gender+" "+name+" you may have...");
    int i=0;
    if (max == c[0]) {
        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d1));
        info[i].setVisibility(View.VISIBLE);
        info[i].setMovementMethod(LinkMovementMethod.getInstance());
        info[i].setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent browserIntent = new Intent(Intent.ACTION_VIEW);
                browserIntent.setData(Uri.parse("https://www.google.com/search?q=diarrhoea&oq=diarrhoea&aqs=chrome..69i57.6104j0j1&sourceid=chrome&ie=UTF-8"));
                startActivity(browserIntent);
            }
        });
        i++;
    }
}

```

```

    }

    if (max == c[1]) {

        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d2));

        info[i].setVisibility(View.VISIBLE);

        info[i].setMovementMethod(LinkMovementMethod.getInstance());

        info[i].setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                Intent browserIntent = new Intent(Intent.ACTION_VIEW);

                browserIntent.setData(Uri.parse("https://www.google.com/search?ei=xOeZXb3KCIX6z7sPzomcsAg&q=malaria&oq=malaria&gs\_l=psy-ab.3..0i67l6j0l4.40811.43654..45013...0.2..3.187.1852.0j12.....0....1..gws-wiz.....6..0i71j0i362i308i154i357j0i131.J8tK4aVih7Y&ved=0ahUKEwi9vOLF2oflAhUF\_XMBHc4EB4YQ4dUDCAs&uact=5"));

                startActivity(browserIntent);

            }

        });

        i++;

    }

    if (max == c[2]) {

        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d3));

        info[i].setVisibility(View.VISIBLE);

        info[i].setMovementMethod(LinkMovementMethod.getInstance());

        info[i].setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                Intent browserIntent = new Intent(Intent.ACTION_VIEW);

                browserIntent.setData(Uri.parse("https://www.google.com/search?ei=8ueZXf3XGcOzmge4l6SoBw&q=typhoid&oq=typhoid&gs\_l=psy-ab.3..0i67l4j0j0i67l2j0l3.17165.19407..19806...0.2..3.188.1796.0j12.....0....1..gws-wiz.....6..0i71j0i362i308i154i357j0i131i67.gApJs810Cpo&ved=0ahUKEwj9mOvb2oflAhXDmeYKHbgrCXUQ4dUDCAs&uact=5"));

                startActivity(browserIntent);

            }

        });

        i++;
    }

```

```

    }

    if (max == c[3]) {

        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d4));

        info[i].setVisibility(View.VISIBLE);

        info[i].setMovementMethod(LinkMovementMethod.getInstance());

        info[i].setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                Intent browserIntent = new Intent(Intent.ACTION_VIEW);

                browserIntent.setData(Uri.parse("https://www.google.com/search?ei=B-  
iZXbSsB9PUz7sPnM6iUA&q=diabetes&oq=diabetes&gs_l=psy-  
ab.3..0i67l3j0i0i67j0l5.20518.23074..23777...0.2..3.199.1955.0j13.....0....1..gws-  
wiz.....6..0i71j0i362i308i154i357j0i131j0i10i67.xxtksmH4CzM&ved=0ahUKEwj0y9rl2oflAhVT6nMBHR  
ynCAoQ4dUDCAs&uact=5"));

                startActivity(browserIntent);

            }

        });

        i++;

    }

    if (max == c[4]) {

        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d5));

        info[i].setVisibility(View.VISIBLE);

        info[i].setMovementMethod(LinkMovementMethod.getInstance());

        info[i].setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                Intent browserIntent = new Intent(Intent.ACTION_VIEW);

                browserIntent.setData(Uri.parse("https://www.google.com/search?biw=1536&bih=754&ei=z-  
iZXdi1GJOf9QPDubbICg&q=blood+pressure+precautions&oq=blood+pressure+precautions&gs_l=psy-  
ab.3..0i67j0l2j0i22i30l7.4084.4084..4335...0.1..0.157.157.0j1....1..0....1..gws-  
wiz.....0i71.XK6RSKLBd1o&ved=0ahUKEwiY2ZrF24flAhWTT30KHcOcDakQ4dUDCAs&uact=5"));

                startActivity(browserIntent);

            }

        });

        i++;

```

```

    }

    if (max == c[5]) {

        im[i].setImageDrawable(getResources().getDrawable(R.drawable.d6));

        info[i].setVisibility(View.VISIBLE);

        info[i].setMovementMethod(LinkMovementMethod.getInstance());

        info[i].setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                Intent browserIntent = new Intent(Intent.ACTION_VIEW);

                browserIntent.setData(Uri.parse("https://www.google.com/search?ei=juiZXaKeF4ne9QPZm6voDQ&q=heart+disease&oq=heart+diseas&gs_l=psy-ab.3.0.0l10.21631.27511..29715...3.1..0.187.2294.0j15.....0....1..gws-wiz.....0i71j0i67j0i273j0i131j0i10j0i131i273.F4U-kXSmlO8"));

                startActivity(browserIntent);

            }

        });

        i++;

    }

}

```

### **CALL CODE**

```

package com.ndkapp.www.MYCARE;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;

import android.Manifest;

import android.content.Intent;

import android.content.pm.PackageManager;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.ImageView;

import android.widget.Toast;

```

```

public class call extends AppCompatActivity {

    private static final int REQUEST_CALL = 1;

    private EditText mEditTextNumber;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_call);

        mEditTextNumber = findViewById(R.id.editText2);

        ImageView imageCall = findViewById(R.id.imageView3);

        imageCall.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                makePhoneCall();

            }

        });

    }

    private void makePhoneCall()

    {

        String number = mEditTextNumber.getText().toString();

        if (number.trim().length() > 0)

        {

            if(ContextCompat.checkSelfPermission(call.this, Manifest.permission.CALL_PHONE) !=

PackageManager.PERMISSION_GRANTED)

            {

                ActivityCompat.requestPermissions(call.this, new String[]

{Manifest.permission.CALL_PHONE},REQUEST_CALL );

            }

            else

            {

                String dial = "tel:" + number;

                startActivity(new Intent(Intent.ACTION_CALL, Uri.parse(dial)));

            }

        }

        else

        {

            Toast.makeText(call.this,"Enter VALID Phone Number", Toast.LENGTH_SHORT).show();

```

```

    }
}
@Override
public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
@NonNull int[] grantResults) {
    if(requestCode == REQUEST_CALL)
    {
        if(grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED)
        {
            makePhoneCall();
        }
        else
        {
            Toast.makeText(this, "Permission DENIED", Toast.LENGTH_SHORT).show();
        }
    }
}
}

```

### **ACTIVITY CONTACT**

```

package com.ndkapp.www.MYCARE;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import android.Manifest;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
public class activity_contact_us extends AppCompatActivity {
    TextView t1;
    TextView t2;

```

```

TextView t3;
ImageView i1;
ImageView i2;
ImageView i3;
private static final int REQUEST_CALL = 1;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_contact_us);
    t1 = findViewById(R.id.call_cs);
    t2 = findViewById(R.id.mail_cs);
    t3 = findViewById(R.id.map_cs);
    i1 = findViewById(R.id.final_call);
    i2 = findViewById(R.id.final_mail);
    i3 = findViewById(R.id.final_map);
    final String num = "9059795727";
    t1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            makePhoneCall(num);
        }
    });
    i1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            makePhoneCall(num);
        }
    });
    t2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent i = new Intent(Intent.ACTION_SENDTO);
            i.setType("message/rfc822");
            i.setData(Uri.parse("mailto:" + "moinashiq17@gmail.com"));
            i.putExtra(Intent.EXTRA_SUBJECT, "Query or Feedback");
        }
    });
}

```

```

        try {
            startActivity(Intent.createChooser(i, "Choose an Email client :"));
        } catch (android.content.ActivityNotFoundException ex) {
            Toast.makeText(activity_contact_us.this, "There are no email clients installed.",
Toast.LENGTH_SHORT).show();
        }
    }
});

i2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent i = new Intent(Intent.ACTION_SENDTO);
        i.setType("message/rfc822");
        i.setData(Uri.parse("mailto:" + "moinashiq17@gmail.com"));
        i.putExtra(Intent.EXTRA_SUBJECT, "Query or Feedback");
        try {
            startActivity(Intent.createChooser(i, "Choose an Email client :"));
        } catch (android.content.ActivityNotFoundException ex) {
            Toast.makeText(activity_contact_us.this, "There are no email clients installed.",
Toast.LENGTH_SHORT).show();
        }
    }
});

t3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent bIntent = new Intent(Intent.ACTION_VIEW);
        bIntent.setData(Uri.parse("https://www.google.com/maps/place/CMR+College+of+Engineering+%26+Technology,+Hyderabad+\(CMRCET%2FCMRK\)/@17.604667,78.4848083,17z/data=!4m5!3m4!1s0x3bcb850bb545e95b:0x4367e509f5ff38e5!8m2!3d17.604667!4d78.4865206\"'"));
        startActivity(bIntent);
    }
});

i3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

```



```
Intent bIntent = new Intent(Intent.ACTION_VIEW);
```

```
bIntent.setData(Uri.parse("https://www.google.com/maps/place/CMR+College+of+Engineering+%26+Technology,+Hyderabad+(CMRCET%2FCMRK)/@17.604667,78.4848083,17z/data=!4m5!3m4!1s0x3bcb850b545e95b0x4367e509f5ff38e5!8m2!3d17.604667!4d78.4865206"));
```

```
startActivity(bIntent);
```

```
}
```

```
});
```

```
}
```

```
private void makePhoneCall(String num)
```

```
{
```

```
    if(ContextCompat.checkSelfPermission(activity_contact_us.this,
Manifest.permission.CALL_PHONE) != PackageManager.PERMISSION_GRANTED)
```

```
{
```

```
        ActivityCompat.requestPermissions(activity_contact_us.this, new String[]
{Manifest.permission.CALL_PHONE},REQUEST_CALL );
```

```
}
```

```
else
```

```
{
```

```
    String dial = "tel:" +num;
```

```
    startActivity(new Intent(Intent.ACTION_CALL, Uri.parse(dial)));
```

```
}
```

```
}
```

```
}
```

### **SOS CALL**

```
package com.ndkapp.www.MYCARE;
```

```
import androidx.annotation.NonNull;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.core.app.ActivityCompat;
```

```
import androidx.core.content.ContextCompat;
```

```
import android.Manifest;
```

```
import android.content.Intent;
```

```
import android.content.pm.PackageManager;
```

```
import android.net.Uri;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.EditText;
```

```
import android.widget.ImageView;
```

```

import android.widget.Toast;

public class call extends AppCompatActivity {

    private static final int REQUEST_CALL = 1;

    private EditText mEditTextNumber;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_call);

        mEditTextNumber = findViewById(R.id.editText2);

        ImageView imageCall = findViewById(R.id.imageView3);

        imageCall.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                makePhoneCall();

            }

        });

    }

    private void makePhoneCall()

    {

        String number = mEditTextNumber.getText().toString();

        if (number.trim().length() > 0)

        {

            if(ContextCompat.checkSelfPermission(call.this, Manifest.permission.CALL_PHONE) !=

PackageManager.PERMISSION_GRANTED)

            {

                ActivityCompat.requestPermissions(call.this, new String[]

{Manifest.permission.CALL_PHONE},REQUEST_CALL );

            }

            else

            {

                String dial = "tel:" + number;

                startActivity(new Intent(Intent.ACTION_CALL, Uri.parse(dial)));

            }

        }

        else

        {

```

```

        Toast.makeText(call.this, "Enter VALID Phone Number", Toast.LENGTH_SHORT).show();
    }
}

@Override

public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
@NonNull int[] grantResults) {
    if(requestCode == REQUEST_CALL)
    {
        if(grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED)
        {
            makePhoneCall();
        }
        else
        {
            Toast.makeText(this, "Permission DENIED", Toast.LENGTH_SHORT).show();
        }
    }
}
}

```

### **ANDROID MAINFEST**

```

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.ndkapp.www.MYCARE">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/app_logo"
        android:label="MY CARE"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">

        <activity
            android:name="com.ndkapp.www.MYCARE.activity_contact_us"
            android:screenOrientation="portrait"
            android:theme="@style/contact_us_theme" />

        <activity
            android:name="com.ndkapp.www.MYCARE.activity_disease"

```

```

        android:screenOrientation="portrait"
        android:theme="@style/disease_theme" />
<activity
    android:name="com.ndkapp.www.MYCARE.activity_symptoms"
    android:screenOrientation="portrait"
    android:theme="@style/home_theme" />
<!--

```

The API key for Google Maps-based APIs is defined as a string resource.

(See the file "res/values/google\_maps\_api.xml").

Note that the API key is linked to the encryption key used to sign the APK.

You need a different API key for each encryption key, including the release key that is used to sign the APK for publishing.

You can define the keys for the debug and release targets in src/debug/ and src/release/.

```

-->
<activity
    android:name="com.ndkapp.www.MYCARE.call"
    android:screenOrientation="portrait"
    android:theme="@style/standardtheme" />
<activity
    android:name="com.ndkapp.www.MYCARE.MainActivity"
    android:screenOrientation="portrait"
    android:theme="@style/home_theme" />
<activity
    android:name="com.ndkapp.www.MYCARE.home"
    android:screenOrientation="portrait"
    android:theme="@style/home_theme">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
<meta-data
    android:name="com.google.android.geo.API_KEY"
    android:value="@string/key" />

```

```

<meta-data
    android:name="preloaded_fonts"
    android:resource="@array/preloaded_fonts" />

</application>

<uses-permission
    android:name="com.androidtutorialpoint.mymapsappsdirection.permission.MAPS_RECEIVE" />

<uses-permission android:name="android.permission.INTERNET" />

<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />

<uses-permission
    android:name="com.google.android.providers.gsf.permission.READ_GSERVICES" />

<uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" />

<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />

<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />

<uses-permission android:name="android.permission.INTERNET" />

<uses-permission android:name="android.permission.CALL_PHONE" />

</manifest>

```

## 5.2 Result:

### 5.2.1 Icon of Application



Fig 5.2.1

### 5.2.2 Welcome Page

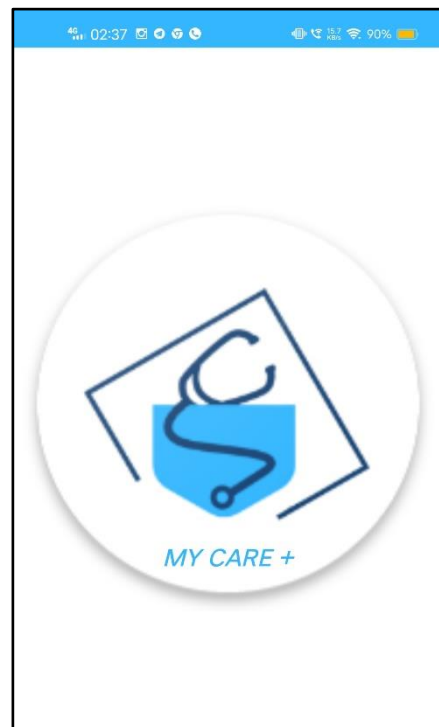


Fig 5.2.2

### 5.2.3 Home console

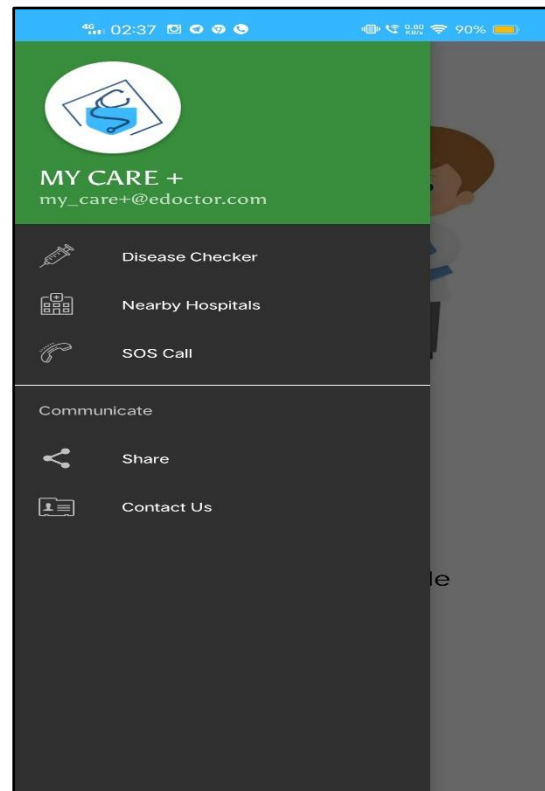
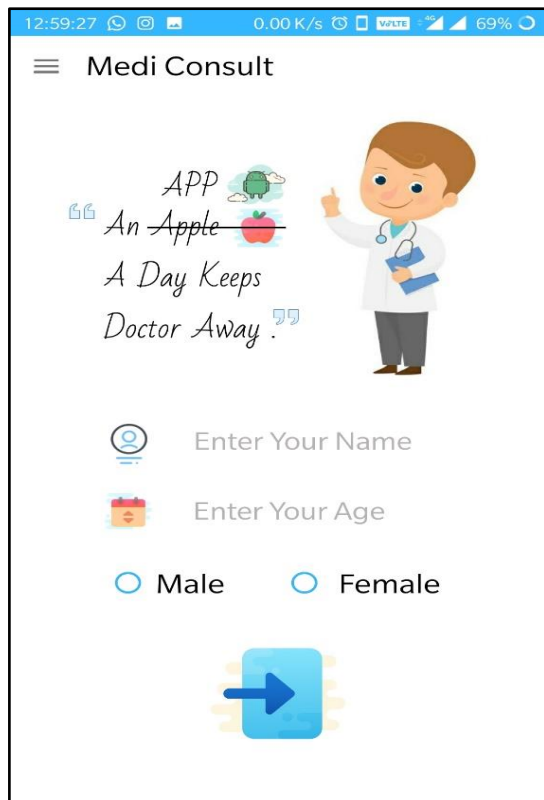


Fig 5.2.3

### 5.2.4 Nearby Hospitals

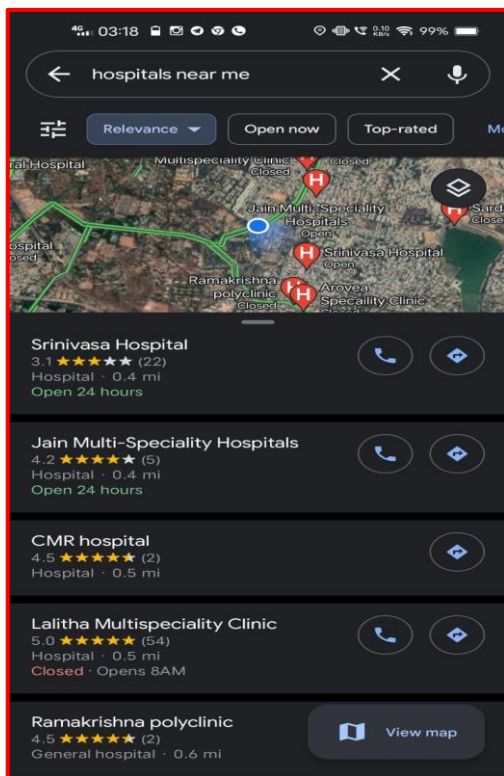


Fig 5.2.4

### 5.2.5 Share

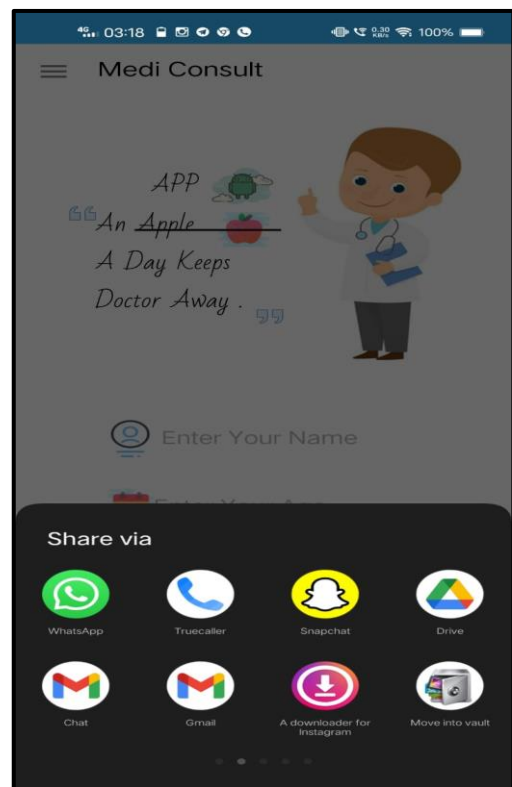


Fig 5.2.5

### 5.2.6 Final Terminal for disease checking

Medi Consult

APP  
An Apple  
A Day Keeps  
Doctor Away.

Moin Ashiq

21

☒ Male ☐ Female

Enter Your Symptoms !

SELECT SYMPTOM

SELECT SYMPTOM

SELECT SYMPTOM

SELECT SYMPTOM

SELECT SYMPTOM

SELECT SYMPTOM

SELECT SYMPTOM

KNOW YOUR DISEASE

Enter Your Symptoms !

Fever

Headaches

Sweating

Vomiting

Sudden Weight Loss

SELECT SYMPTOM

SELECT SYMPTOM

KNOW YOUR DISEASE

google.com/search?ei=xOeZ>

malaria

ALL IMAGES NEWS MAPS VIDEOS SHOP

**Malaria**  
Also called: plasmodium infection

OVERVIEW SYMPTOMS TREATMENTS

A disease caused by a plasmodium parasite, transmitted by the bite of infected mosquitoes.

The severity of malaria varies based on the species of plasmodium.

**Rare**  
Fewer than 1 million cases per year (India)

- Treatable by a medical professional
- Spreads by animals or insects
- Requires a medical diagnosis
- Lab tests or imaging always required
- Short-term: resolves within days to weeks
- Critical: needs emergency care

Fig 5.2.6

### 5.2.7 SOS Call or Emergency

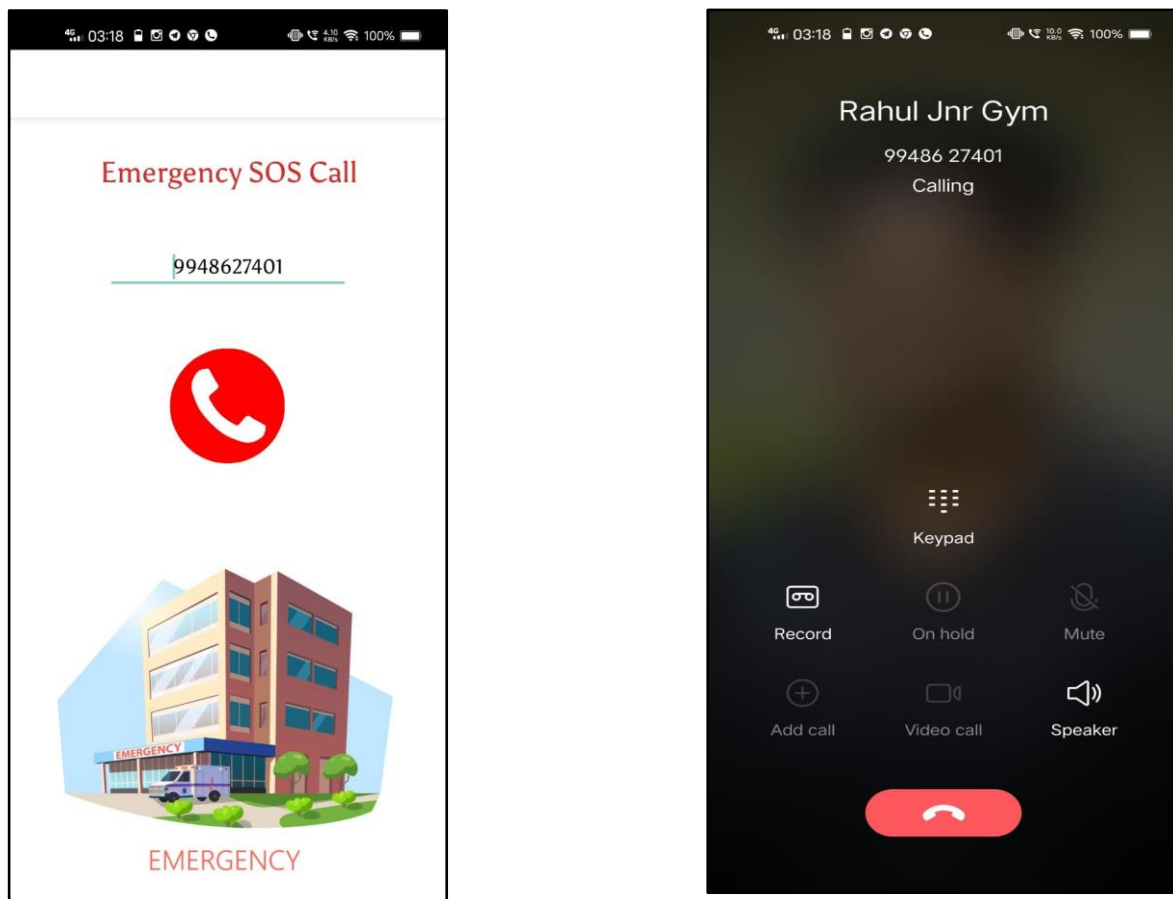


Fig 5.2.7

### 5.2.8 Contact Us



Fig 5.2.8



## CHAPTER 6

### **CONCLUSION AND FUTURE WORK**

#### **6.1 CONCLUSION AND FUTURE WORK**

The project was a good experience for me. I think that from this project I learnt a lot about how an official application works.

- Learn a Different Application Like Android Studio from Scratch.
- Changing Dependencies Of Android Studio caused Immense Difficulty.
- Updating Gradle File and Version of Android Studio.
- Asking Permission for Calling while Implementing SOS Module.
- While implementing Google maps API for nearby Hospitals.

#### **Summary of Project Work**

- The importance of time bound and execution of work was realized. It gave me an experience to develop application like big official applications.
- The application is a user friendly and can be run by any person with the help of android phone. The preparation of this project has helped a lot to learn the much unknown features of Android studio and User Interface.

## 6.2 References

- <https://developer.android.com>
- <https://www.youtube.com/watch?v=UDwj5j4tBYg>
- <https://www.youtube.com/watch?v=fGcMLu1GJEc>
- <https://www.youtube.com/watch?v=nxSdkiFcQxs>
- <https://www.zoftino.com/current-location-and-nearby-places-android-example>
- <https://www.androidtutorialpoint.com/intermediate/google-maps-search-nearby-displaying-nearby-places-using-google-places-api-google-maps-api-v2/>
- <https://ieeexplore.ieee.org/document/8250646>
- <https://ieeexplore.ieee.org/document/7019406/authors>
- [https://ieeexplore.ieee.org/document/7016204/authors#authors.](https://ieeexplore.ieee.org/document/7016204/authors#authors)
- <https://www.studocu.com/in/document/aligarh-muslim-university/computer-and-its-applications/detailed-report-of-app/30565191>