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TITLE: Preventing Patient Information from Security Threats using encryption algorithms

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project link: https://github.com/shanureddy4/MEDAPP

ABSTRACT

These days most of the things are done through internet. Most organizations have online portals to communicate with customers. most of the medical apps like **DocsApp, 1mg** are giving

doctor consultation and medicines to door steps through their applications. These applications make life easier for users. These app give consultation fee with fancy prices and user can able to share everything easily through phones. Even though they maintain privacy still doctors able to view all details about the patient which some patients doesn't want to. As these are big organizations, there is a chance for information disclosure by their staff. A survey said that nearly 8% of patient gets leaked from hospitals. So considering these problems and pandemic situation we are trying to build an application that is able to encrypt the patient data as soon as possible patient enter details and providing most secure connection until it reaches to the corresponding doctor.

Introduction

We can imagine that there are applications for every domine. We can see that there are numerous applications even to treated by the doctor. In this project we develop an application that will Encrypt patient details as soon as patient enters and gives only necessity details to the doctor. Consultant can even schedule the consultation timings and send to the patient. A notification will be send to the patient as soon as consultant accept the request. As details are secured patient has anonymity while consulting to the doctor and able to express all his sufferings without worrying.

Literature Survey

Reference number	Paper Title	Journal / Conference Name & Year	Proble m Statem ent	Algorit hms Applie d	Tools Used	Result s attain ed	Drawb ack In the syste m	Inferen ce
1	Techniq ues for prevent informa tion disclosu re via dynami c secure cloud resourc es	MICRO FOCUS/2011	Techniq ue to prevent informa tion pass from within the organiz ation	Dyna mic secure cloud resour ce	Cloud comput ing	These are just techni ques	None	These article shows that we can have various techniq ues to preven t inform ation disclos ure

2	Smurfbased Distribu ted Denial of Service (DDoS) Attack Amplifi cation in Internet	IEEE/2007	Intrude r able to create denial of service in target device	Smufi ng techni que	Exploitt tools such as smtraffi c	Able to create servic e denial on host device	Target device do no work after this attack	These article show how to amplify the smurf attack
3	DDoS attack algorith m using ICMP flood	IEEE/2016	As this article says that we should re conside r the protoco ls like TCP and ICMP to prevent flood attack	a DDoS Attac k based algori thm on ICMP Flood ing techni que.	DDoS attack tools	Succe ssful ICMP flood attack	Protoc ols regard ing ICMP should recons ider	This researc h is aimed at giving readers a brief outline of DDoS Attack s and its constit uents, primari ly the ICMP Protoc ol.

4	Application check DocsApp	DocsApp.in/ 2015	Patient have no online portal to contact with doctors	In this application they used lot of algorithms to provide seemless service to users	App development	Able to provide doctors to the patients remotely	Patients data can be seen every doctor	These site have information about the app called DocsApp and how they used to provide seemless services to the users.
5.	Practical quantum digital signature with a gigahertz BB84 quantum key distribution system	OSAPUBLISHING/2019	Enhancement needed for traditional digital keys	Quantum key distribution system	Tools to generate quantum keys.	Able to establish secure connection between server and client	Need to understand many things just to have digital signature	These article shows how to generate digital signature with a gigaherz BB84 quantum key.

Reference number	Paper Title	Journal / Conference Name & Year	Problem Statement	Algorithms Applied	Tools Used	Results attained	Drawback In the system	Inference

6	Secure NetworkonChip Against Black Hole and Tampering Attacks	scholarworks.boisestate.edu/2020	Tampering attacks make information change during transmission	Algorithms used to reduce backdoor attacks	Not Mentioned	Able to secure network to maximum extent	May not possible for implementation	These paper tells how tampering occurs on transmission and how to prevent them.
7.	About 1 mg	1mg.com/aboutUs/ 2015	Patient have no option to contact doctor whenever possible	Many algorithms applied to develop this application	App development	Provided online consultation with doctors and deliver medicines.	This also expose all patient details to the doctor.	This is a application which let's users to consult doctors online.

8.	Three party secure data transmission in IoT networks through design of a lightweight authenticated key agreement scheme	Science direct /2019	Need to have enhancement in transmission of data over a network	Three party secure data transmission	Not mentioned	Able to transmit data securely	Needs to optimized for app level transmission	These paper will suggest to have three party secure data transmission in IOT networking
9.	Developing a secured image file management system using modified AES	Journal.portalgaruda.org	As many of us know AES algorithms it can be easy to understand our encryption level. So we need to customize it	Modified AES algorithm	This can be developed in any of programming language	Able to encrypt image successfully	This is easier than original AES algorithm	These paper suggest that we need to customize every algorithm according to our use.

10.	Economic Success of Physicians in the Online Consultation Market: A Signaling Theory Perspective	Tandfonline	Belief that online consultation makes no profit	Economically written. No algorithm involved	None	Online consultation will make much profit than usual	As article is theory perspective so implementation could be difficult.	This paper says that we online consultation will actually make profit for doctors.

Problem Identified

Nearly 8 % of patient data is leaked from such applications. And patient gives fake identity while communicating with the doctor so it will difficult for an organization to identify him to send proper precautions and Patient want anonymity while contacting to the doctor.

Aim

We think that data is stolen directly from the database so we aim to develop an application that will encrypt the details as soon as patient enters and goes into database with encrypted and provide the patient details to the doctor as per patient needs.

Algorithm Used : Vigenere

STEPS

1) **User need to enter personal details and his/her problem and doctor. At last user need to describe problem in brief.**
2) **After entering details the details will be encrypted and stored in firebase database.**
3) **Here for every doctor a key and credentials will be given.**

4) On patient selecting doctor the respective key will be sent to database. 5) Using that key when doctor login it will display no of patients with their ID

6) **On doctor login it will give patient ID and decrypted KEY.**
7) **Doctor need to search patient using patient ID and need to decrypt using KEY.**
8) **On patient view page doctor will able to see the information only which patient will provided for viewing.**
9) **On consulting a link will be generated and sent to doctor and patient on doctor timings.**

10) Therefore patient will contact at given time

Program

cryption.ky

```
package com.example.myapplication

import java.text.Normalizer
fun getRandomString(length: Int) : String {
val allowedChars = ('A'..'Z') + ('a'..'z')     return
(1..length)
        .map { allowedChars.random() }
        .joinToString("")
}  class Vigenere(var txt: String, var key:
String) {       val VIGENERE_ARRAY = arrayOf('A', 'B', 'C', 'D', 'E', 'F', 'G',
'H', 'I', 'J',
'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z',
'0', '1', '2', '3', '4', '5', '6', '7', '8', '9', '.', ',', '?', '!', '\'', '_',
'-', '&', '@', '#', '$', '%', '*', '(', ')', '{', '}', '[', ']', '|', '~', '\\',
';', ':', '^', '+', '=', ' ', '`')
fun encodeMessage(): String {
var txtEncoded = ""         val keyLength: Int =
key.length         val txtFlattened =
flattenToAscii(txt)         for (i in
txtFlattened.indices) {
            val x =
                (VIGENERE_ARRAY.indexOf(txtFlattened[i].toUpperCase()) +
VIGENERE_ARRAY.indexOf(key[i.rem(keyLength)].toUpperCase())).rem(
VIGENERE_ARRAY.size)             txtEncoded += VIGENERE_ARRAY[x]
}  return txtEncoded
```

```
    }      fun decodeMessage(): String
{         var txtDecoded = ""
val keyLength: Int = key.length         for
(i in txt.indices) {
val x =
                (VIGENERE_ARRAY.indexOf(txt[i].toUpperCase()) -
VIGENERE_ARRAY.indexOf(key[i.rem(keyLength)].toUpperCase()) +
VIGENERE_ARRAY.size).rem(
                    VIGENERE_ARRAY.size
                )
            txtDecoded += VIGENERE_ARRAY[x]
        }
        return txtDecoded
    }      internal fun flattenToAscii(txt: String):
String {
var string = txt
        val out = CharArray(string.length)         string =
Normalizer.normalize(string, Normalizer.Form.NFD)
var j = 0         var i = 0         val n = string.length         while
(i < n) {            val c = string[i]
            if (c <= '\u007F') out[j++] = c
            ++i
}         return
String(out)
    } }
```

bother.kt

```
package com.example.myapplication

import android.os.Bundle import
android.view.LayoutInflater import
android.view.View import android.view.ViewGroup
import android.widget.Button import
android.widget.EditText import
android.widget.ImageButton import
android.widget.Toast
import androidx.activity.OnBackPressedCallback import
androidx.fragment.app.Fragment import
com.google.firebase.database.DatabaseReference import
com.google.firebase.database.FirebaseDatabase  import
com.google.firebase.database.IgnoreExtraProperties
import kotlin.math.acos
class bother :  Fragment() {
val doctors = doctors()
val problems = problems()
//DB
    //private lateinit var rootnode: FirebaseDatabase
//private lateinit var reference: DatabaseReference     private
lateinit var database: DatabaseReference
@IgnoreExtraProperties     data class newpatient(         var
Name: String?,         var Age: String?,         var Sex:
String?,         var
Phone: String?,         var
```

```
Email: String?,         var
Address: String?,         var
Pincode: String?,         var
Privacy:String?,         var
Problem:String?,         var
DoctorId:String?,         var
Describe:String?,         var Key:String?

    )      private fun writeNewUser(ID:String,Name: String?, Age: String?, Sex:
String?,Phone:String?,Email:String?,Address: String?,Pincode: String?,Privacy:
String?,Problem: String?,DoctorId: String?,Describe: String?,Key:String?) {
val Patient= newpatient(Name,Age,Sex,Phone, Email, Address, Pincode,
Privacy,Problem,DoctorId,Describe,Key)
          database                                                =
FirebaseDatabase.getInstance().getReference()
database.child("patients").child(ID).setValue(Patient)



//        rootnode = FirebaseDatabase.getInstance()
//        reference = rootnode.getReference("patients")
//        reference.setValue(Patient)



    }
      override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_bother ,container,
false)
        //get petient details with key          val det:ArrayList<String> =
arguments?.getSerializable("details") as ArrayList<String>          val
key:String = arguments?.getSerializable("key") as String          // got
patient details




        //find consultant          val consultant =
view.findViewById<ImageButton>(R.id.imgbtn1)
consultant.setOnClickListener(object :View.OnClickListener
        {             override fun onClick(p0: View?) {
val bundle = Bundle()
doctors.arguments=bundle                  val fm =
activity!!.supportFragmentManager

fm.beginTransaction().replace(R.id.nav_host_fragment,doctors).addToBackStack("tag4
").commit()
            }
        })
```

```
        //find pbls          val pbls =
view.findViewById<ImageButton>(R.id.imgbtn)
pbls.setOnClickListener(object :View.OnClickListener
        {              override fun
onClick(p0: View?) {
val bundle = Bundle()                  doctors.arguments=bundle
                val fm = activity!!.supportFragmentManager

fm.beginTransaction().replace(R.id.nav_host_fragment,problems).addToBackStack("tag
4").commit()
            }
        })




        //pbl description          var decription_reference =
view.findViewById<EditText>(R.id.describe)




        //submit          val submit =
view.findViewById<Button>(R.id.button)
submit.setOnClickListener(object :View.OnClickListener
        {
            override fun onClick(p0: View?) {
                    //write to DB

                     val bundle = arguments
                    var problem = (activity as MainActivity).problem
                    var enProblem = Vigenere(problem as
String,key).encodeMessage()                        var
endDscription =
Vigenere(decription_reference.text.toString(),key).encodeMessage()
var doctorID = (activity as MainActivity).docID
if(problem.length<=1 || doctorID.length<=1)
                    {
                        Toast.makeText(context,"Please select your health issue
and doctor",Toast.LENGTH_SHORT).show()
                    }                  else if
(endDscription.length<=1)
                    {
                        Toast.makeText(context,"Please describe your
problem",Toast.LENGTH_SHORT).show()                        }                  else
{
writeNewUser(det[0],det[1],det[2],det[3],det[4],det[5],det[6],det[7],det[8],enProb
lem,doctorID,endDscription,key)
                        Toast.makeText(context,"you will receive mail regarding
confirmation",Toast.LENGTH_LONG).show()
                    }
            }
        })
```

```
            return
view
    }


}
```

consultation.kt

```
package com.example.myapplication
import android.os.Bundle import
android.util.Log import
android.view.LayoutInflater import
android.view.View import
android.view.ViewGroup import
android.widget.* import
androidx.core.text.set import
androidx.fragment.app.Fragment
import com.google.firebase.database.DatabaseReference
import com.google.firebase.database.FirebaseDatabase import
com.google.firebase.database.IgnoreExtraProperties import java.nio.file.Files.size
  class consultation : Fragment()
{     var Bother = bother()


        public override fun onCreateView(
inflater: LayoutInflater,         container:
ViewGroup?,         savedInstanceState:
Bundle?
    ): View? {
val view:View =
inflater.inflate(R.layout.fragment_startconsultation,container,false)
        //getting form fields
        val name = view.findViewById<EditText>(R.id.Name)
val age=view.findViewById<EditText>(R.id.Age)         val rg =
view.findViewById<RadioGroup>(R.id.radiogrp)         val phone
= view.findViewById<EditText>(R.id.phone)         val email =
view.findViewById<EditText>(R.id.email) val address =
view.findViewById<EditText>(R.id.address) val pincode =
view.findViewById<EditText>(R.id.pincode)
        var gender = ""



        //radio
rg.clearCheck()
        rg.setOnCheckedChangeListener { radioGroup, i ->
gender = view.findViewById<RadioButton>(i).text.toString()         }

        //checkbox          var cb =
view.findViewById<CheckBox>(R.id.checkBox)
           val next =
view.findViewById<Button>(R.id.nxt)
```

```
            next.setOnClickListener(object
:View.OnClickListener
        {
            override fun onClick(p0: View?) {
var details:ArrayList<String> = arrayListOf()
details.clear()                 val key = getRandomString(7)
val pid = getRandomString(4)
                val enName = Vigenere(name.text.toString(),key).encodeMessage()
val enAge  = Vigenere(age.text.toString(),key).encodeMessage()                 val
enGender = Vigenere(gender,key).encodeMessage()
                val enMobile = Vigenere(phone.text.toString(),key).encodeMessage()
val enEmail = Vigenere(email.text.toString(),key).encodeMessage()
val enAddress =
Vigenere(address.text.toString(),key).encodeMessage()
val enPincode =
Vigenere(pincode.text.toString(),key).encodeMessage()
val CheckBox = cb.isChecked

                details =
arrayListOf(pid,enName,enAge,enGender,enMobile,enEmail,enAddress,enPincode,CheckBo
x.toString())
                if(pid.length<1 || enName.length<1 || enAge.length<1 ||
enGender.length<1 || enMobile.length<1 || enEmail.length<1 || enAddress.length<1
||enPincode.length<1)
                {
                    Toast.makeText(context,"Please enter all
the fields",Toast.LENGTH_SHORT).show()                 }
else                 {
                    val bundle = Bundle()
bundle.putSerializable("details",details)
bundle.putSerializable("key",key)
                    Bother.arguments=bundle
val fm = activity!!.supportFragmentManager

fm.beginTransaction().replace(R.id.nav_host_fragment,Bother).addToBackStack("tag2"
).commit()
                }


            }
        })
```

```
            return
view
    }

 }
```

docnotification.kt

```
package com.example.myapplication

import android.content.ContentValues.TAG
import android.content.Intent import
android.os.Bundle import android.util.Log
import android.view.LayoutInflater import
android.view.View import
android.view.ViewGroup
import android.widget.AdapterView.OnItemClickListener
import android.widget.ArrayAdapter import android.widget.ListView
import
android.widget.TextView import android.widget.Toast import
androidx.core.view.children import
androidx.fragment.app.Fragment
//import   androidx.test.core.app.ApplicationProvider.getApplicationContext   import
com.google.firebase.database.*
  class docnotification:
Fragment() {
var keyfordoc = keyfordoc()

    private lateinit var database: DatabaseReference
override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment
        val view:View = inflater.inflate(R.layout.fragment_docnotifications
,container, false)
        activity?.setTitle("Notifications") val doctorid:String =
        arguments?.getSerializable("doctor") as String
        var listview = view.findViewById<ListView>(R.id.patientlist)
database = FirebaseDatabase.getInstance().getReference().child("patients")
var list = arrayListOf<String>()         var adapter:ArrayAdapter<String> =
ArrayAdapter(requireActivity(),android.R.layout.simple_list_item_1,list)
val txt = view.findViewById<TextView>(R.id.textView12)
        var Dkey = arrayListOf<String>()
var count = 0

        val postListener = object : ValueEventListener {
override fun onDataChange(dataSnapshot: DataSnapshot) {
list.clear()
                for (i in dataSnapshot.children)
                {
                    if(i.child("doctorId").value.toString().equals(doctorid))
                    {
                        list.add(i.key.toString())
```

```
                        Dkey.add(i.child("key").value.toString())
count++
                    }

                   // list.add(i.key.toString())
                    //list.add(i.getValue().toString()) // to print all values
                }
                if (count==0)
                {
                    txt.visibility = View.VISIBLE
                }
adapter.notifyDataSetChanged()

            }

            override fun onCancelled(databaseError: DatabaseError) {
            }
         }
database.addValueEventListener(postListener)

        //list items
        listview.onItemClickListener =
            OnItemClickListener { parent, view, position, id ->
var PID  = list[position]                 var DKEY =
Dkey[position]                var bundle = Bundle()
bundle.putSerializable("PID",PID)
bundle.putSerializable("DKEY",DKEY)                 keyfordoc.arguments=bundle
                val fm = requireActivity().supportFragmentManager

fm.beginTransaction().replace(R.id.nav_host_fragment,keyfordoc).addToBackStack("ta
g10").commit()



            }
listview.adapter = adapter
for(i in listview.children)
        {
            i.background = resources.getDrawable(R.drawable.background)
}

            return
view
    }

 }
```

doctors.kt

```
package com.example.myapplication

import android.os.Bundle import
androidx.fragment.app.Fragment import
android.view.LayoutInflater import
android.view.View import
```

```
android.view.ViewGroup import
android.widget.Button import
android.widget.ImageButton import
android.widget.TableRow import
android.widget.Toast
  class doctors:
Fragment() {
      override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_doctors ,container,
false)


            return
view
    }


}
```

GMailSender.java

```
package com.example.myapplication;
import
java.io.ByteArrayInputStream; import
java.io.IOException; import
java.io.InputStream; import
java.io.OutputStream; import
java.security.Security; import
java.util.Properties;

import javax.activation.DataHandler;
import javax.activation.DataSource; import
javax.activation.FileDataSource; import
javax.mail.BodyPart; import
javax.mail.Message; import
javax.mail.Multipart; import
javax.mail.PasswordAuthentication; import
javax.mail.Session; import
javax.mail.Transport;
import javax.mail.internet.InternetAddress;
import javax.mail.internet.MimeBodyPart; import
javax.mail.internet.MimeMessage; import
javax.mail.internet.MimeMultipart;

public class GMailSender extends javax.mail.Authenticator {

    private String mailhost = "smtp.gmail.com";
private String user;     private String password;
private Session session;
```

```
    private Multipart _multipart = new MimeMultipart();

    static {
        Security.addProvider(new JSSEProvider());
    }      public GMailSender(String user, String
password) {
this.user = user;         this.password = password;
Properties props = new Properties();
props.setProperty("mail.transport.protocol", "smtp");
props.setProperty("mail.host", mailhost);
props.put("mail.smtp.auth", "true");         props.put("mail.smtp.port",
"465");         props.put("mail.smtp.socketFactory.port", "465");
props.put("mail.smtp.socketFactory.class",
"javax.net.ssl.SSLSocketFactory");
props.put("mail.smtp.socketFactory.fallback", "false");
props.setProperty("mail.smtp.quitwait", "false");
session = Session.getDefaultInstance(props, this);
    }                                   protected    PasswordAuthentication
getPasswordAuthentication() {         return new
PasswordAuthentication(user, password);
    }
    public synchronized void sendMail(String subject, String body, String sender,
String recipients) throws Exception {
try {
            MimeMessage message = new MimeMessage(session);
DataHandler handler = new DataHandler(new
ByteArrayDataSource(body.getBytes(), "text/plain"));
message.setSender(new InternetAddress(sender));
message.setSubject(subject);             message.setDataHandler(handler);
            BodyPart messageBodyPart = new MimeBodyPart();
messageBodyPart.setText(body);
            _multipart.addBodyPart(messageBodyPart);
message.setContent(_multipart);

            if (recipients.indexOf(',') > 0)
                message.setRecipients(Message.RecipientType.TO,
InternetAddress.parse(recipients));
else
                message.setRecipient(Message.RecipientType.TO, new
InternetAddress(recipients));

            Transport.send(message);
        } catch (Exception e) {
            e.printStackTrace();
        }     }      public void addAttachment(String filename)
throws Exception {
        BodyPart messageBodyPart = new MimeBodyPart();         DataSource
source = new FileDataSource(filename);
messageBodyPart.setDataHandler(new DataHandler(source));
messageBodyPart.setFileName("download image");
        _multipart.addBodyPart(messageBodyPart);
    }
```

```
    public class ByteArrayDataSource implements DataSource {
private byte[]
data;         private String type;

        public ByteArrayDataSource(byte[] data, String type) {
super();              this.data = data;              this.type =
type;          }           public ByteArrayDataSource(byte[]
data) {
super();              this.data = data;
        }             public void
setType(String type) {
this.type = type;
        }             public String
getContentType() {
if (type == null)
                return "application/octet-stream";
else                  return type;
        }             public InputStream getInputStream() throws
IOException {
return new ByteArrayInputStream(data);
        }



        public String getName() {
return "ByteArrayDataSource";
        }             public OutputStream getOutputStream() throws
IOException {
throw new IOException("Not Supported");
        }
    } }
```

JSSEProvider.java

```
package com.example.myapplication;
import
java.security.AccessController; import
java.security.PrivilegedAction; import java.security.Provider;

public class JSSEProvider extends Provider {
public JSSEProvider() {
        super("HarmonyJSSE", 1.0, "Harmony JSSE Provider");
AccessController.doPrivileged(new PrivilegedAction<Void>() {
            @Override             public
Void run() {
put("SSLContext.TLS",
"org.apache.harmony.xnet.provider.jsse.SSLContextImpl");
put("Alg.Alias.SSLContext.TLSv1", "TLS");
put("KeyManagerFactory.X509",
"org.apache.harmony.xnet.provider.jsse.KeyManagerFactoryImpl");
put("TrustManagerFactory.X509",
"org.apache.harmony.xnet.provider.jsse.TrustManagerFactoryImpl");
return null;
            }
```

```
        });
    } }
```

keyfordoc.kt

```
package com.example.myapplication


  import android.R.attr.label import
android.content.ClipData import
android.content.ClipboardManager import android.content.Context
import android.content.Context.CLIPBOARD_SERVICE
import android.os.Bundle import
android.view.LayoutInflater import android.view.View
import android.view.ViewGroup import
android.widget.EditText import
android.widget.ImageButton
import androidx.core.content.ContextCompat.getSystemService import
androidx.fragment.app.Fragment
   class keyfordoc:
Fragment() {
      override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_keyandpatient
,container, false)
         val PID = arguments?.getSerializable("PID") as String
val KEY = arguments?.getSerializable("DKEY") as String
var editPID = view.findViewById<EditText>(R.id.PID)         var
editKEY = view.findViewById<EditText>(R.id.KEY)
editPID.setText(PID)          editKEY.setText(KEY)
editKEY.isEnabled = false          editPID.isEnabled = false
        var copyPID = view.findViewById<ImageButton>(R.id.imageButton)
var copyKEY = view.findViewById<ImageButton>(R.id.imageButton2)          val
myClipboard: ClipboardManager =
activity?.getSystemService(CLIPBOARD_SERVICE) as ClipboardManager
copyPID.setOnClickListener(object :View.OnClickListener
        {
            override fun onClick(p0: View?) {
val clipData = ClipData.newPlainText("PID",PID )
myClipboard.setPrimaryClip(clipData)
            }
})          copyKEY.setOnClickListener(object
:View.OnClickListener
        {
            override fun onClick(p0: View?) {
val clipData = ClipData.newPlainText("KEY",KEY )
myClipboard.setPrimaryClip(clipData)
            }
        })
```

```
            return
view
    }


}
```

MainActivity.kt

```
package com.example.myapplication

import android.app.PendingIntent.getActivity
import android.os.Bundle import android.view.Menu
import android.view.View import
android.widget.TableLayout import
android.widget.TableRow import
android.widget.Toast
import com.google.android.material.floatingactionbutton.FloatingActionButton
import  com.google.android.material.snackbar.Snackbar  import
com.google.android.material.navigation.NavigationView import
androidx.navigation.findNavController                  import
androidx.navigation.ui.AppBarConfiguration             import
androidx.navigation.ui.navigateUp
import androidx.navigation.ui.setupActionBarWithNavController
import androidx.navigation.ui.setupWithNavController import
androidx.drawerlayout.widget.DrawerLayout import
androidx.appcompat.app.AppCompatActivity import
androidx.appcompat.widget.Toolbar import
androidx.fragment.app.FragmentTransaction import
kotlinx.android.synthetic.main.content_main.* import kotlinx.coroutines.awaitAll

class MainActivity : AppCompatActivity() {
      private lateinit var appBarConfiguration:
AppBarConfiguration     override fun
onCreate(savedInstanceState: Bundle?) {
super.onCreate(savedInstanceState)
setContentView(R.layout.activity_main)         val toolbar:
Toolbar = findViewById(R.id.toolbar)
setSupportActionBar(toolbar)



//        val fab: FloatingActionButton = findViewById(R.id.fab)
//        fab.setOnClickListener { view ->
//            Snackbar.make(view, "Replace with your own action",
Snackbar.LENGTH_LONG)
//                    .setAction("Action", null).show()
//        }
        val drawerLayout: DrawerLayout = findViewById(R.id.drawer_layout)
val navView: NavigationView = findViewById(R.id.nav_view)         val
navController = findNavController(R.id.nav_host_fragment)
```

```
        // Passing each menu ID as a set of Ids because each
// menu should be considered as top level destinations.
appBarConfiguration = AppBarConfiguration(setOf(
                R.id.nav_home, R.id.nav_gallery, R.id.nav_slideshow),
drawerLayout)
        setupActionBarWithNavController(navController, appBarConfiguration)
navView.setupWithNavController(navController)
    }     var docID:String
= ""      fun getDoctor(v:
View)     {
        docID =v.tag.toString()
onBackPressed()
    }
 var problem:String = ""
fun getProblem(v: View)
    {         problem
=v.tag.toString()
onBackPressed()
    }

      override fun onCreateOptionsMenu(menu: Menu): Boolean
{
        // Inflate the menu; this adds items to the action bar if it is present.
menuInflater.inflate(R.menu.main, menu)         return true
    }
    override fun onSupportNavigateUp(): Boolean {          val
navController = findNavController(R.id.nav_host_fragment)
return navController.navigateUp(appBarConfiguration) ||
super.onSupportNavigateUp()
    }
}

  notifypatient.kt  package
com.example.myapplication

import android.util.Log import
javax.activation.CommandMap import javax.activation.MailcapCommandMap
class notifypatient(var body:String,var receipent:String)
{
    fun send()
{         val mc: MailcapCommandMap = CommandMap.getDefaultCommandMap()
as MailcapCommandMap          mc.addMailcap("text/html;; x-java-
contenthandler=com.sun.mail.handlers.text_html")
mc.addMailcap("text/xml;; x-java-
contenthandler=com.sun.mail.handlers.text_xml")
mc.addMailcap("text/plain;; x-java-
contenthandler=com.sun.mail.handlers.text_plain")
mc.addMailcap("multipart/*;; x-java-
contenthandler=com.sun.mail.handlers.multipart_mixed")
mc.addMailcap("message/rfc822;; x-java-content-
handler=com.sun.mail.handlers.message_rfc822")
        try {              var sender =
GMailSender("shanureddy78@gmail.com", "")
sender.sendMail("Consultation Confirmation", body,
"shanureddy78@gmail.com", "shanureddy007@gmail.com")
```

```
        }catch (e:Exception){
            Log.e("SendMail",e.message,e)}

    }
  } fun main() {      val mc: MailcapCommandMap =
CommandMap.getDefaultCommandMap() as MailcapCommandMap
mc.addMailcap("text/html;; x-java-
contenthandler=com.sun.mail.handlers.text_html")
mc.addMailcap("text/xml;; x-java-
contenthandler=com.sun.mail.handlers.text_xml")
mc.addMailcap("text/plain;; x-java-
contenthandler=com.sun.mail.handlers.text_plain")
mc.addMailcap("multipart/*;; x-java-
contenthandler=com.sun.mail.handlers.multipart_mixe
d")     mc.addMailcap("message/rfc822;; x-javacontent-
handler=com.sun.mail.handlers.message_rfc822")     try
{
        var sender = GMailSender("shanureddy78@gmail.com", "s81nur544y")
sender.sendMail("Consultation Confirmation", "msg", "MEDAPP",
"shanureddy78@gmail.com")
    }catch (e:Exception){
        Log.e("SendMail",e.message,e)}
 }
```

patient_view.kt

```
package com.example.myapplication
    import android.os.Bundle
import
androidx.fragment.app.Fragment
import
android.view.LayoutInflater
import android.view.View import
android.view.ViewGroup import
android.widget.* import
androidx.core.view.isVisible
import java.io.Serializable
  class patient_view: Fragment()
{ var Sendinfo = sendinfo()
var mail = ""

    override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_patientview ,container,
false)
        var name = view.findViewById<TextView>(R.id.NMM)
var age = view.findViewById<TextView>(R.id.AGG)         var
gender = view.findViewById<TextView>(R.id.GNN)         var
mobile = view.findViewById<TextView>(R.id.MBB)         var email
= view.findViewById<TextView>(R.id.EMM)         var address =
view.findViewById<TextView>(R.id.ADD)         var problem =
view.findViewById<TextView>(R.id.PBB)         var description =
```

```
view.findViewById<TextView>(R.id.DPP)          var decrypt =
view.findViewById<Button>(R.id.DEC)

        var getaddress = view.findViewById<EditText>(R.id.ADD)
getaddress.isEnabled = false

        var getDes = view.findViewById<EditText>(R.id.DPP)
getDes.isEnabled = false

        var collection = arguments?.getSerializable("collection") as
MutableMap<String,String>
          fun decodedmessage(txt: String, key: String):
String
        {             var vig =
Vigenere(txt,key)
return vig.decodeMessage()
         }
decrypt.setOnClickListener {
var getkey =
view.findViewById<EditText>(R.id.patientKey).text.toString()
if (getkey.equals(collection.getValue("key")))
            {
                if (collection.getValue("privacy").toBoolean())
                {                       age.text =
decodedmessage(collection.getValue("age"),getkey)
gender.text =
decodedmessage(collection.getValue("sex"),getkey)
email.text =
decodedmessage(collection.getValue("email"),getkey)
problem.text =
decodedmessage(collection.getValue("problem"),getkey)
description.text =
decodedmessage(collection.getValue("describe"),getkey)
age.visibility = View.VISIBLE
gender.visibility = View.VISIBLE
email.visibility = View.VISIBLE
problem.visibility = View.VISIBLE
description.visibility = View.VISIBLE


                }                else
{
                    name.text = decodedmessage(collection.getValue("name"),getkey)
age.text = decodedmessage(collection.getValue("age"),getkey)
gender.text =
decodedmessage(collection.getValue("sex"),getkey)
mobile.text =
decodedmessage(collection.getValue("phone"),getkey)                    email.text
=
decodedmessage(collection.getValue("email"),getkey)
address.text =
decodedmessage(collection.getValue("address"),getkey)
problem.text =
```

```
decodedmessage(collection.getValue("problem"),getkey)
description.text =
decodedmessage(collection.getValue("describe"),getkey)

                    //to send mail
                    mail = decodedmessage(collection.getValue("email"),getkey)
name.visibility = View.VISIBLE
age.visibility = View.VISIBLE
gender.visibility = View.VISIBLE
mobile.visibility = View.VISIBLE
email.visibility = View.VISIBLE
address.visibility = View.VISIBLE
problem.visibility = View.VISIBLE
description.visibility = View.VISIBLE


                }
}             else
            {
                Toast.makeText(requireContext(),"Please Enter Valid
Key",Toast.LENGTH_SHORT).show()
            }
         }         val next =
view.findViewById<Button>(R.id.N2)
next.setOnClickListener {             var bundle =
Bundle()              bundle.putSerializable("mail",mail)
            bundle.putSerializable("iddoc",collection.getValue("doctorId"))
Sendinfo.arguments=bundle              val fm =
requireActivity().supportFragmentManager

fm.beginTransaction().replace(R.id.nav_host_fragment,Sendinfo).addToBackStack("tag
2").commit()
        }




          return
view
    }

  }
problems.kt
package
com.example.myapplication
   import android.os.Bundle
import
androidx.fragment.app.Fragment import
android.view.LayoutInflater import
android.view.View import
android.view.ViewGroup import
android.widget.Button
import android.widget.ImageButton
```

```
import android.widget.TableRow import android.widget.Toast
  class problems:
Fragment() {
      override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_problems ,container,
false)



            return
view
    }

 } sendinfo.kt

package com.example.myapplication

  import android.app.DatePickerDialog
import android.app.TimePickerDialog import
android.content.ClipData import
android.content.ClipboardManager import
android.content.Context import
android.os.Bundle import
android.view.LayoutInflater import
android.view.View import
android.view.ViewGroup import
android.widget.* import
androidx.fragment.app.Fragment import java.util.*
  class sendinfo:
Fragment() {
        override fun onCreateView(          inflater:
LayoutInflater, container: ViewGroup?,
savedInstanceState: Bundle?
    ): View? {
        // Inflate the layout for this fragment          val view:View =
inflater.inflate(R.layout.fragment_sendinfo ,container,
false)
        var dateedit = view.findViewById<EditText>(R.id.editTextDate)
var timeedit = view.findViewById<EditText>(R.id.editTextTime)         var mail
= arguments?.getSerializable("mail") as String
        var iddoc = arguments?.getSerializable("iddoc") as String
var cal = view.findViewById<ImageButton>(R.id.cal)          cal.setOnClickListener{
            val currentDateTime = Calendar.getInstance()
val startYear = currentDateTime.get(Calendar.YEAR)             val
startMonth = currentDateTime.get(Calendar.MONTH)             val startDay
= currentDateTime.get(Calendar.DAY_OF_MONTH)             val startHour =
currentDateTime.get(Calendar.HOUR_OF_DAY)             val startMinute =
currentDateTime.get(Calendar.MINUTE)

            DatePickerDialog(requireContext(), DatePickerDialog.OnDateSetListener
{ _, year, month, day ->
```

```
                TimePickerDialog(requireContext(),
TimePickerDialog.OnTimeSetListener { _, hour, minute ->                    val
pickedDateTime = Calendar.getInstance()
pickedDateTime.set(year, month, day, hour, minute)
                }, startHour, startMinute, false).show()
            }, startYear, startMonth, startDay).show()

dateedit.setText(startYear.toString()+"/"+startMonth.toString()+"/"+startDay)
timeedit.setText(startHour.toString()+":"+startMinute.toString())        }
          var link =
view.findViewById<EditText>(R.id.editlink)         var text =
view.findViewById<TextView>(R.id.linkfor)        var cp =
view.findViewById<ImageButton>(R.id.cp3)

        var button = view.findViewById<Button>(R.id.button3)

        button.setOnClickListener {
link.setText("http://bit.ly/"+iddoc)
            var message = "Your consultation requrest has been accepted by the
doctor." + "Please make your self available at " +dateedit.text.toString()+" Time
:"+timeedit.text.toString()+ " .Use the link " +link.text.toString()+ " to contact
the doctor"

            Thread(Runnable {
                var sendmsg = notifypatient(message,mail.toLowerCase())
sendmsg.send()
            }).start()




                link.visibility =
View.VISIBLE
text.visibility = View.VISIBLE             cp.visibility =
View.VISIBLE
         }         val myClipboard: ClipboardManager =
activity?.getSystemService(Context.CLIPBOARD_SERVICE) as ClipboardManager
cp.setOnClickListener{
            val clipData = ClipData.newPlainText("link",link.text.toString() )
myClipboard.setPrimaryClip(clipData)        }




            return
view
    }


}
```

SOME DESIGNE XML FILES

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.drawerlayout.widget.DrawerLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:id="@+id/drawer_layout"     android:layout_width="match_parent"
android:layout_height="match_parent"
android:fitsSystemWindows="true"     tools:openDrawer="start">
     <include
layout="@layout/app_bar_main"
android:layout_width="match_parent"
android:layout_height="match_parent" />

    <com.google.android.material.navigation.NavigationView
android:id="@+id/nav_view"         android:layout_width="wrap_content"
android:layout_height="match_parent"
android:layout_gravity="start"
android:fitsSystemWindows="true"
app:headerLayout="@layout/nav_header_main"
app:menu="@menu/activity_main_drawer" />
</androidx.drawerlayout.widget.DrawerLayout>
```

App_bar_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"     android:layout_height="match_parent"
tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:theme="@style/AppTheme.AppBarOverlay">
```

```
        <androidx.appcompat.widget.Toolbar
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="51dp"
android:background="@color/colorPrimary"
app:popupTheme="@style/AppTheme.PopupOverlay" />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

SOME FRAGMENTS Fragment_bother.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"     android:layout_height="match_parent"
android:background="@drawable/allbackground"     android:clickable="true">

    <ImageButton         android:id="@+id/imgbtn"
android:layout_width="350dp"
android:layout_height="wrap_content"
android:background="@drawable/select_healthpbl"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.262"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.119" />
     <EditText
android:id="@+id/describe"
android:layout_width="wrap_content"
android:layout_height="200dp"
android:background="@drawable/bother"          android:ems="10"
android:gravity="start|top"          android:inputType="textMultiLine"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.515"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.595" />

    <TextView
        android:id="@+id/textView9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"          android:text="Please describe
your health concern"
app:layout_constraintBottom_toTopOf="@+id/describe"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.093"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.909" />

    <Button
        android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:background="@drawable/sumbit"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.47"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/describe"
app:layout_constraintVertical_bias="0.263" />

    <ImageButton
        android:id="@+id/imgbtn1"
android:layout_width="350dp"
android:layout_height="wrap_content"
android:background="@drawable/consultatnt_finder"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.278"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/imgbtn"
app:layout_constraintVertical_bias="0.065" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Fragment_doctor.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:background="#FFFFFF"     android:clickable="true"
    xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent" android:layout_height="match_parent">
<ScrollView>

        <LinearLayout
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:orientation="vertical">


            <TableRow
android:id="@+id/e1"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="mlC8IFyTyLgINc75rsJWNSpnIL12"
                android:orientation="vertical">
```

```
                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">


                    <TextView
android:id="@+id/textView1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(Orthopedist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar1"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.321"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
                        android:id="@+id/no.ofratings1"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="3325 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS,MS-Orthopaedics"
android:textColor="#000000"
app:layout_constraintBottom_toTopOf="@+id/ratingBar1"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.284"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
```

```
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.J Surya Chandra"
android:textColor="#000000"
android:textSize="22dp"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree1"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.244"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings1"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                              android:rating="4.7"
android:isIndicator="true"                              android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage1"                             android:layout_width="100dp"
android:layout_height="90dp"                             android:src="@drawable/doc1"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e2"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="qQr4ISbEkRWrfA2Eji1xssfzsBg1"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">



                    <TextView
android:id="@+id/textView2"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(General Physician)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.28"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings2"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="2350 ratings"
android:textColor="#000000"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS, MD-General Medicine"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.254"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname2"
android:layout_width="205dp"                          android:layout_height="35dp"
android:layout_marginTop="16dp" android:fontFamily="@font/aller_bd"
                        android:text="Dr.Tejaswi Konidela"
android:textColor="#000000"
android:textSize="22dp"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree2"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.23"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.0" />

                    <RatingBar
android:id="@+id/ratingBar2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings2"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                              android:rating="3.9"
android:isIndicator="true"                              android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage2"                              android:layout_width="100dp"
android:layout_height="90dp"                              android:src="@drawable/doc2"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e3"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="ijt4ynpap4UuyFC6TY9PwAjpsng1"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">



                    <TextView
android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
                        android:text="(Pulmonologist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar3"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings3"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="1552 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
                        android:id="@+id/docdegree3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"                          android:text="MBBS, MD-
Pulmonary Medicine"                          android:textColor="#000000"
app:layout_constraintBottom_toTopOf="@+id/ratingBar3"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.268"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.Sravani"
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree3"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
                        android:id="@+id/ratingBar3"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
```

```
app:layout_constraintEnd_toStartOf="@+id/no.ofratings3"
app:layout_constraintHorizontal_bias="0.985"
                        android:stepSize="0.1"
android:rating="4.3"
android:isIndicator="true"
android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage3"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc3"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e4"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="amGlTLAHQ0WpMJfhKJsiUzKevNg2"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">


                    <TextView
android:id="@+id/textView4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(Dentist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar4"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
                        android:id="@+id/no.ofratings4"
                        android:layout_width="130dp"
                        android:layout_height="50dp"
```

```
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="5545 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="BDS, MDS"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar4"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.385"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.Harshini"
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree4"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings4"
app:layout_constraintHorizontal_bias="0.985"
                        android:stepSize="0.1"
android:rating="4.5"                            android:isIndicator="true"
android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage4"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc4"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e5"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="wGzRfNPdZuef5dVZv4yM01NmuzC3"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">



                    <TextView
android:id="@+id/textView5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(Neprologist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar5"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.289"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings5"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="7201 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
```

```
app:layout_constraintEnd_toEndOf="parent"
                        app:layout_constraintHorizontal_bias="0.868"
                        app:layout_constraintStart_toStartOf="parent"
                        app:layout_constraintTop_toTopOf="parent"
                        app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"                          android:text="MBBS,
Fellowship in Nephrology"                          android:textColor="#000000"
app:layout_constraintBottom_toTopOf="@+id/ratingBar5"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.222"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.A.N. Priyatham Reddy"
android:textColor="#000000"
android:textSize="22dp"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree5"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.098"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings5"
app:layout_constraintHorizontal_bias="0.985"
                        android:stepSize="0.1"
android:rating="3.8"
android:isIndicator="true"
android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage5"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc5"
                        app:layout_constraintBottom_toBottomOf="parent"
```

```
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
            </TableRow>
<TableRow
android:id="@+id/e6"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="P4LbMQwDXXf0F4W3Y7xAqpFFc2E3"
                android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">


                    <TextView
                        android:id="@+id/textView6"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(Urologist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar6"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings6"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="55525 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree6"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"                    android:text="MBBS,
MS, MCh-Urology"                        android:textColor="#000000"
app:layout_constraintBottom_toTopOf="@+id/ratingBar6"
                        app:layout_constraintEnd_toEndOf="parent"
                        app:layout_constraintHorizontal_bias="0.385"
                        app:layout_constraintStart_toStartOf="parent"
                        app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname6"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.Ginka Dileep"
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree6"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar6"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings6"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                          android:rating="3.0"
android:isIndicator="true"                          android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage6"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc6"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e7"
```

```
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="8Ekc3A3375eqN2pUhG5oHmy5SWp2"
                android:orientation="vertical">
<androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">


                    <TextView
android:id="@+id/textView7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(General Physician)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar7"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings7"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="5421 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar7"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.385"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.Amar Babu"  android:textSize="22dp"
                        android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree7"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar7"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings7"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                          android:rating="4.2"
android:isIndicator="true"                          android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage7"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc7"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e8"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="tMvTstx0HEOz0nj79EPXBVmaFUs1"
                android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
```

```
android:layout_height="150dp">


                    <TextView
android:id="@+id/textView8"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"  android:fontFamily="@font/aller_bdlt"
android:text="(Opthalmologist/Eye Surgeon)"
                        android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar8"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings8"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="1225 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree8"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS, DNB-Opthalmology"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar8"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.385"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname8"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.M.Veerendra"
```

```
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree8"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
                        android:id="@+id/ratingBar8"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings8"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                          android:rating="4.3"
android:isIndicator="true"                          android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage8"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc8"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e9"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="PnaRiSFwKhYksC0dO0rdXHQfAHd2"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">



                    <TextView
android:id="@+id/textView9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
```

```
android:fontFamily="@font/aller_bdlt"
android:text="(Neurologist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar9"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
                        android:id="@+id/no.ofratings9"
                        android:layout_width="130dp"
                        android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"
android:text="1356 ratings"
android:textColor="#000000"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
android:id="@+id/docdegree9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS, MS, MCh"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar9"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.385"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.R Ram Naik"
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree9"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar9"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings9"
app:layout_constraintHorizontal_bias="0.985"
android:stepSize="0.1"                              android:rating="4.3"
android:isIndicator="true"                              android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />
<de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage9"
android:layout_width="100dp"
android:layout_height="90dp"
android:src="@drawable/doc9"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
                </androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>

            <TableRow
android:id="@+id/e10"
android:onClick="getDoctor"
android:layout_width="match_parent"
android:layout_height="150dp"
android:background="@drawable/background"
android:tag="UEcDuxKOU9WS44c1KfRNVbZCdX02"
android:orientation="vertical">

                <androidx.constraintlayout.widget.ConstraintLayout
android:layout_width="match_parent"
android:layout_height="150dp">



                    <TextView
android:id="@+id/textView10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="4dp"
android:fontFamily="@font/aller_bdlt"
android:text="(Cardiologist)"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar10"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
```

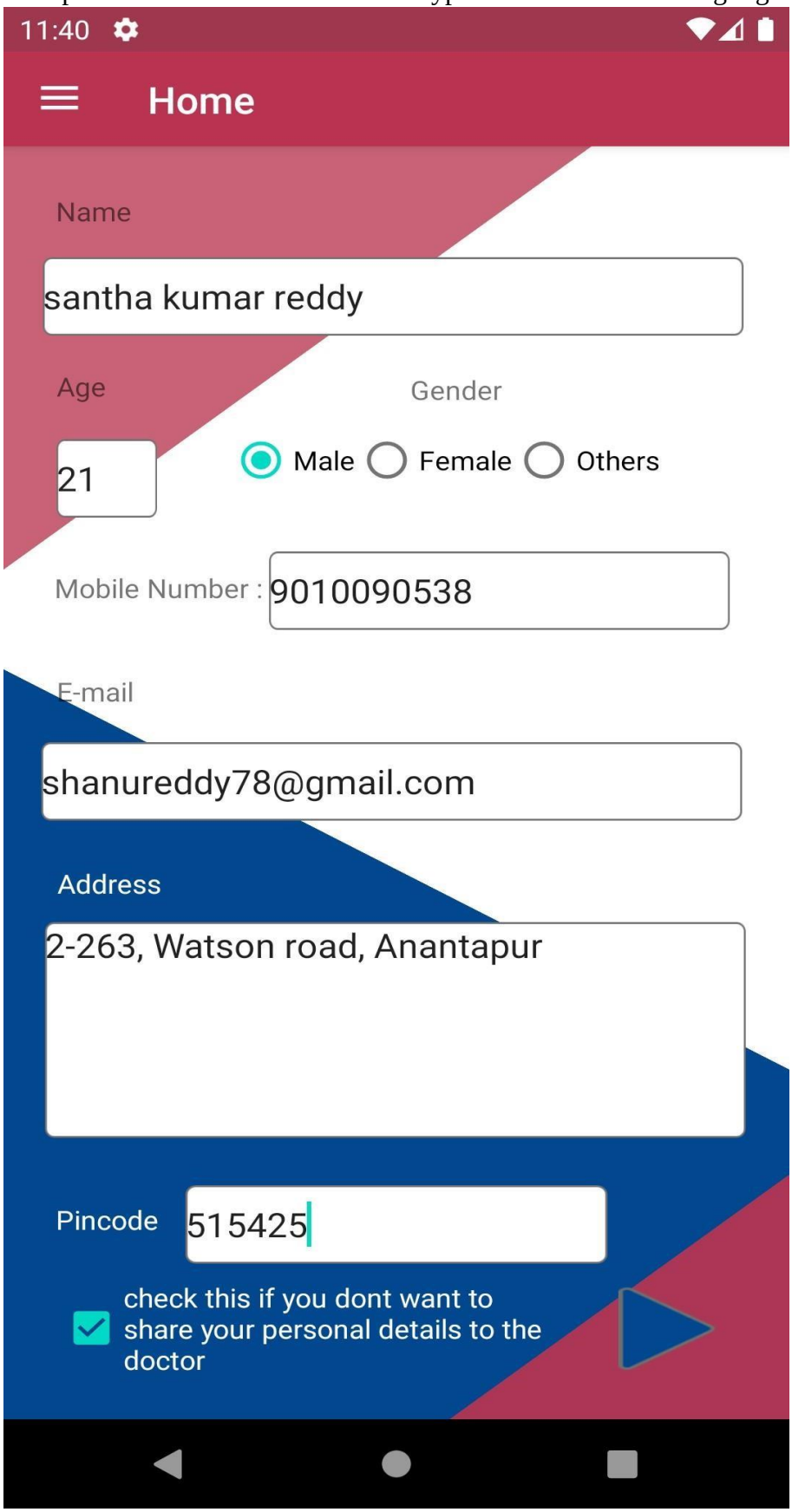
```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <TextView
android:id="@+id/no.ofratings10"
android:layout_width="130dp"
android:layout_height="50dp"
android:ems="10"
                        android:fontFamily="@font/aller_bdlt"
android:inputType="number"
android:padding="15dp"                          android:text="753 ratings"
android:textColor="#000000"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.868"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.9" />

                    <TextView
                        android:id="@+id/docdegree10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:fontFamily="@font/aller_bd"
android:text="MBBS, MD, DM-Cardiology"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/ratingBar10"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.385"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.676" />

                    <TextView
android:id="@+id/docname10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
android:fontFamily="@font/aller_bd"
android:text="Dr.Bala Chandra"
android:textSize="22dp"
android:textColor="#000000"
                        app:layout_constraintBottom_toTopOf="@+id/docdegree10"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.372"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

                    <RatingBar
android:id="@+id/ratingBar10"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="4dp"
```

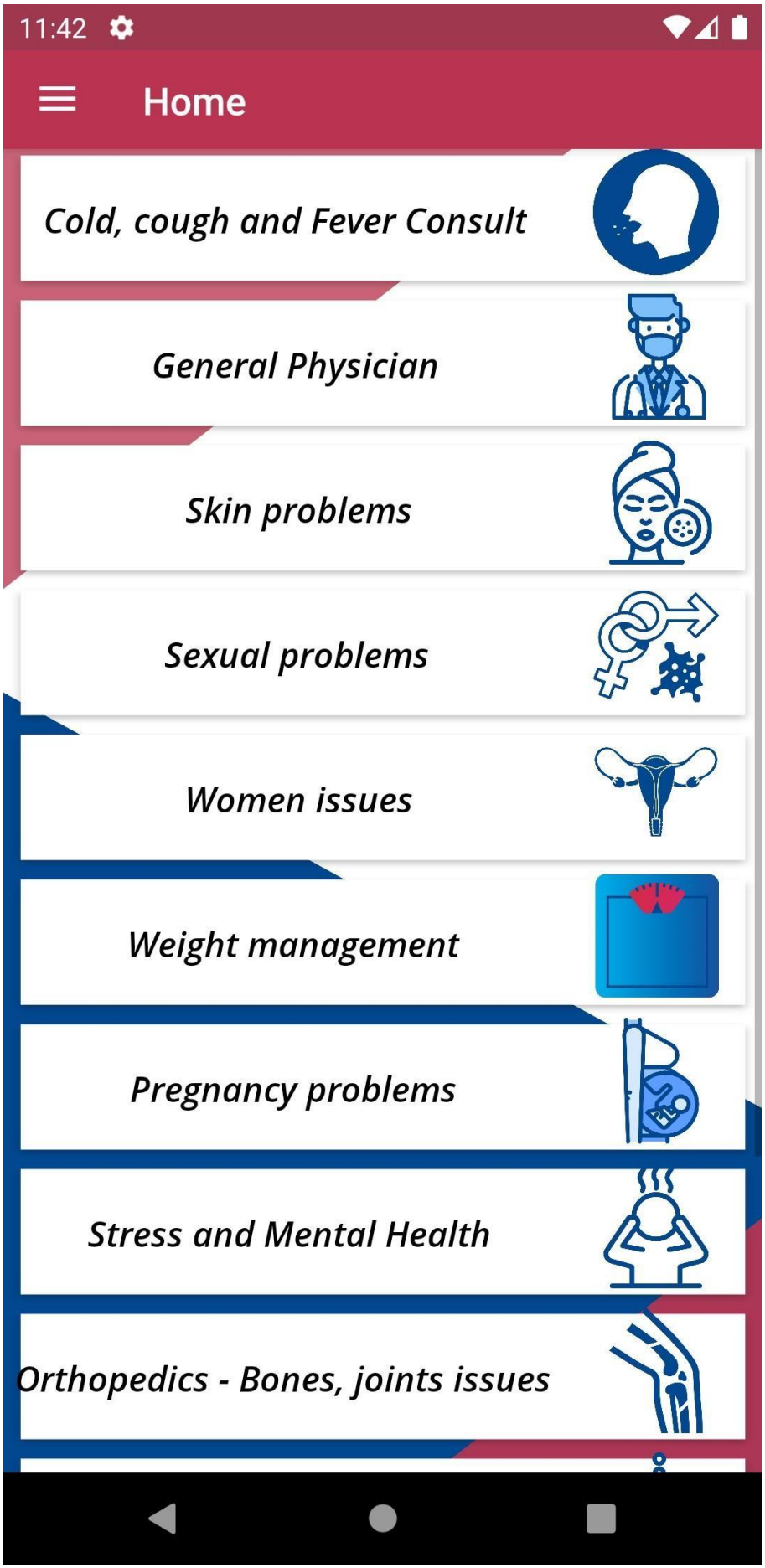
```
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toStartOf="@+id/no.ofratings10"
app:layout_constraintHorizontal_bias="0.985"
                        android:stepSize="0.1"
android:rating="4.7"
android:isIndicator="true"
android:theme="@style/RatingBar"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.967" />

                    <de.hdodenhof.circleimageview.CircleImageView
android:id="@+id/docimage10"                          android:layout_width="100dp"
android:layout_height="90dp"                          android:src="@drawable/doc10"
                        app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.881"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.266" />
</androidx.constraintlayout.widget.ConstraintLayout>
</TableRow>
        </LinearLayout>
    </ScrollView>



</TableLayout>
```

Results Home page

Patient details

Here patient will enter details and encrypted on submission using vigenere algorithm




11:42
Home
Cold, cough and Fever Consult
General Physician
Skin problems
Sexual problems
Women issues
Weight management
Pregnancy problems
Stress and Mental Health
Orthopedics - Bones, joints issues

11:42

Home

Dr.J Surya Chandra

MBBS,MS-Orthopaedics

(Orthopedist)

3325 ratings

Dr.Tejaswi Konidela

MBBS, MD-General Medicine

(General Physician)

2350 ratings

Dr.Sravani

MBBS, MD-Pulmonary Medicine

(Pulmonologist)

1552 ratings

Dr.Harshini

BDS, MDS

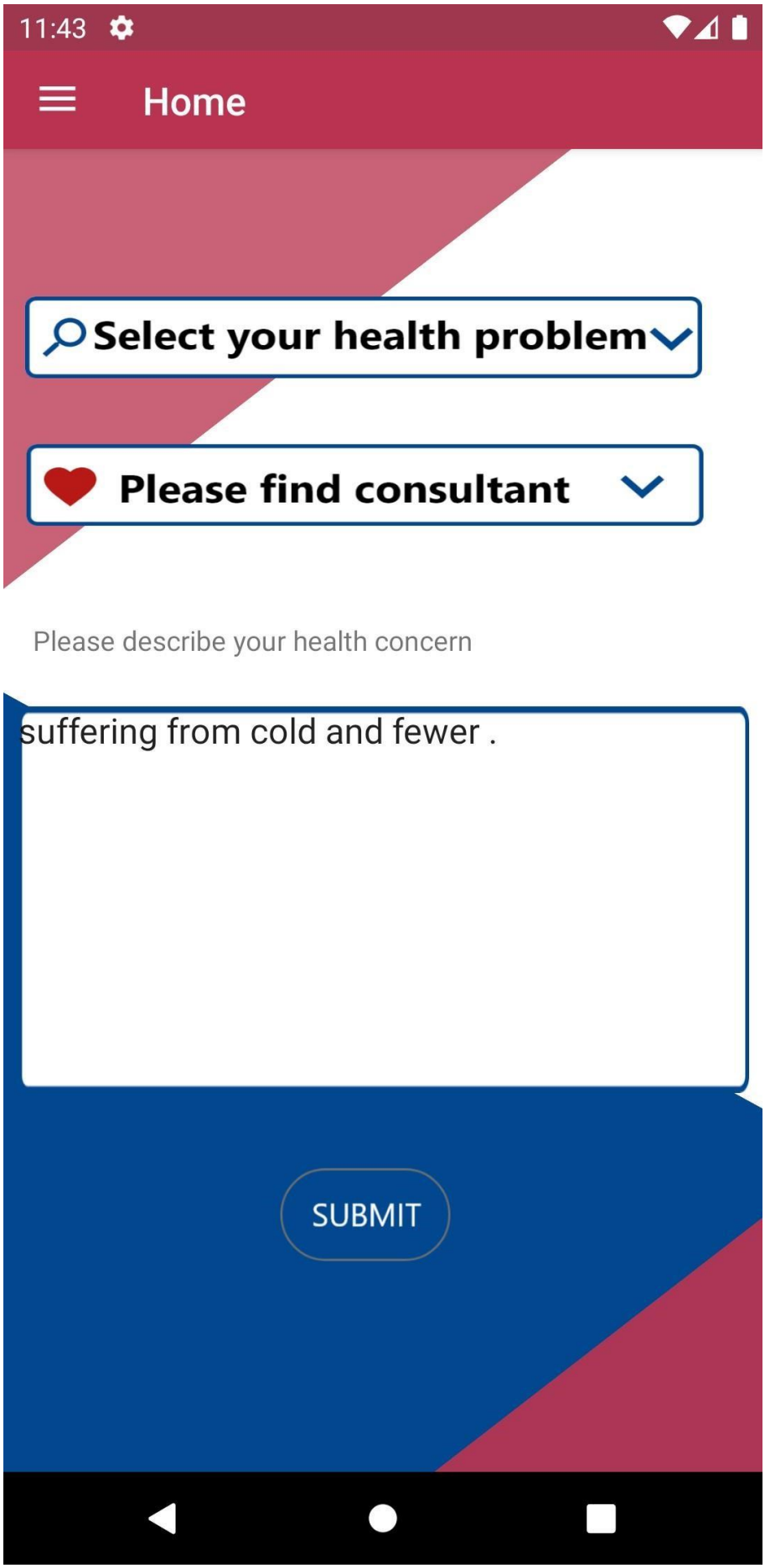
(Dentist)

5545 ratings

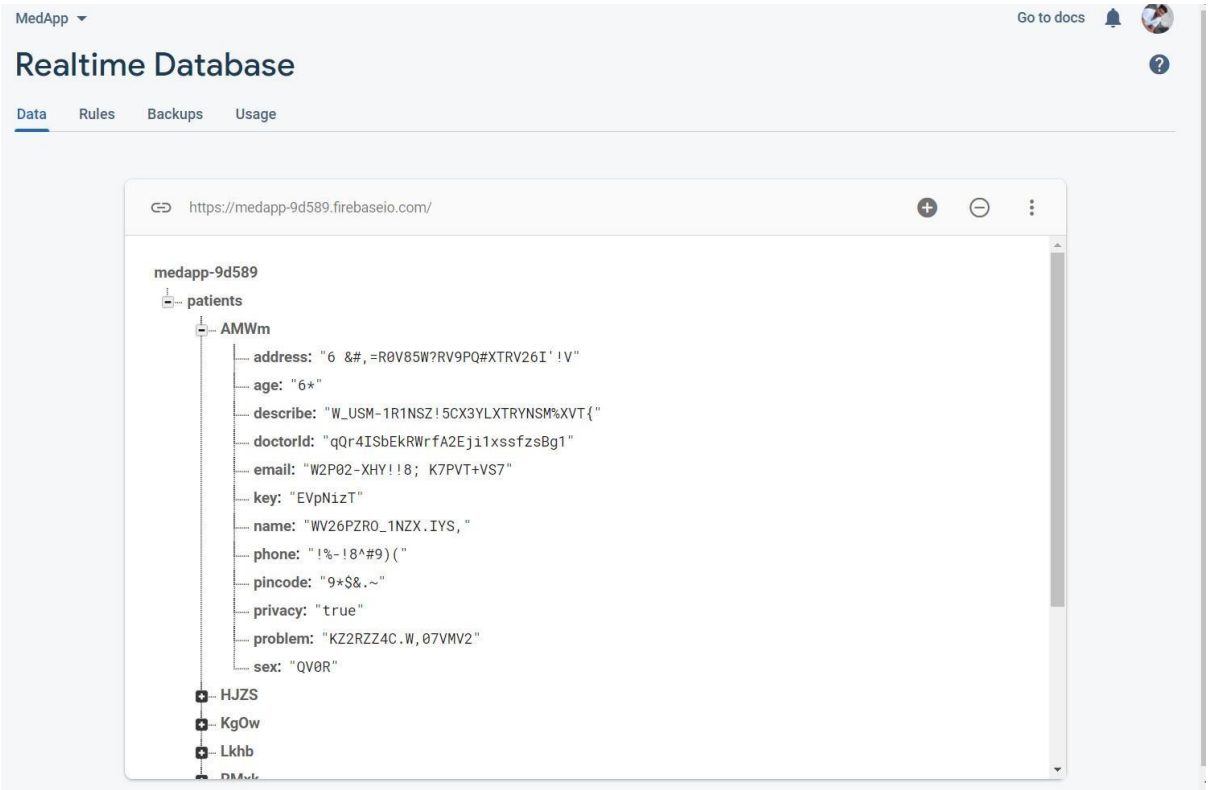
Dr.A.N. Priyatham Reddy

MBBS, Fellowship in Nephrology

(Neprologist)

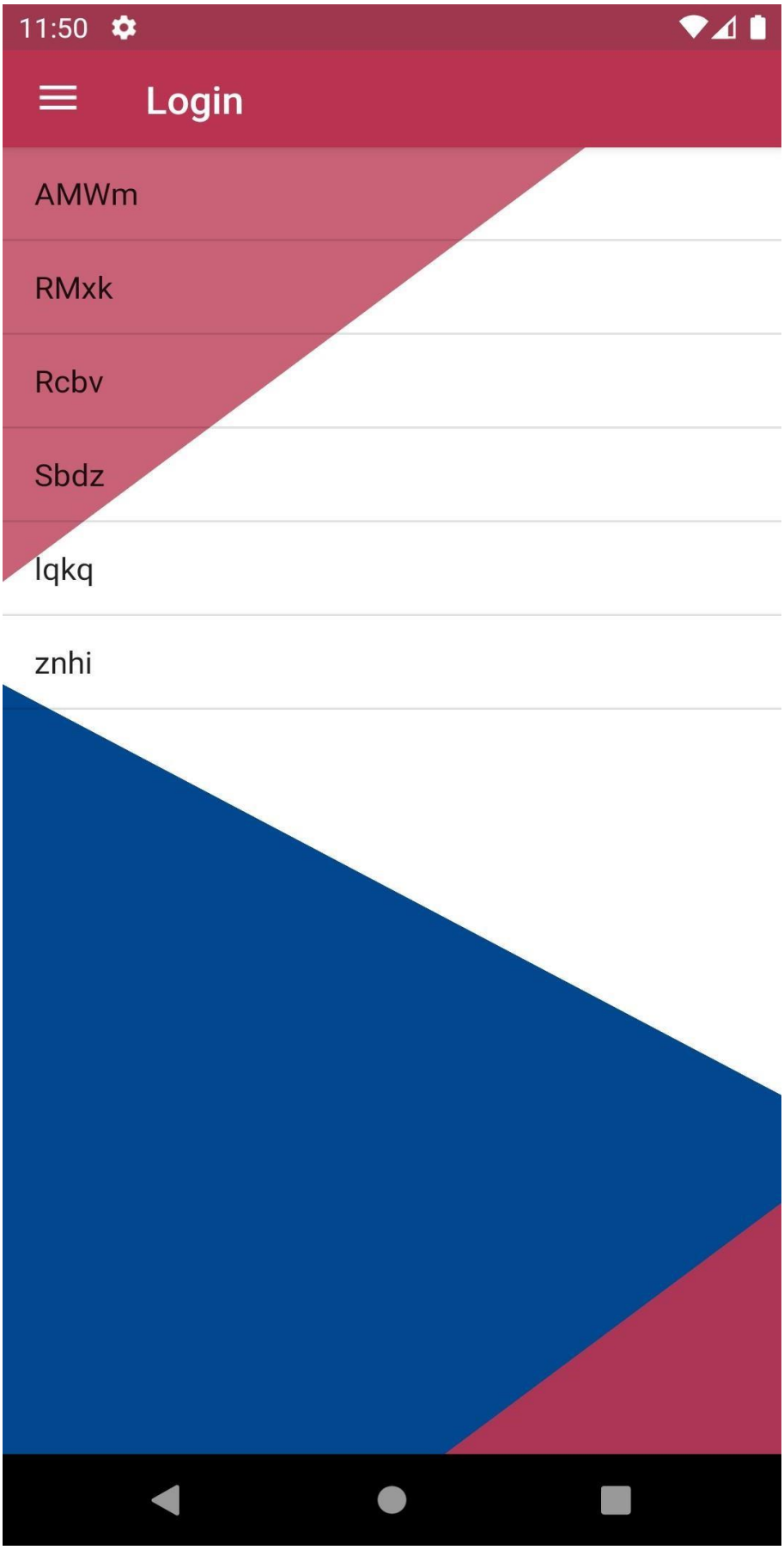

11:43
Home
Select your health problem
Please find consultant
Please describe your health concern
suffering from cold and fewer .
SUBMIT

Firebase database

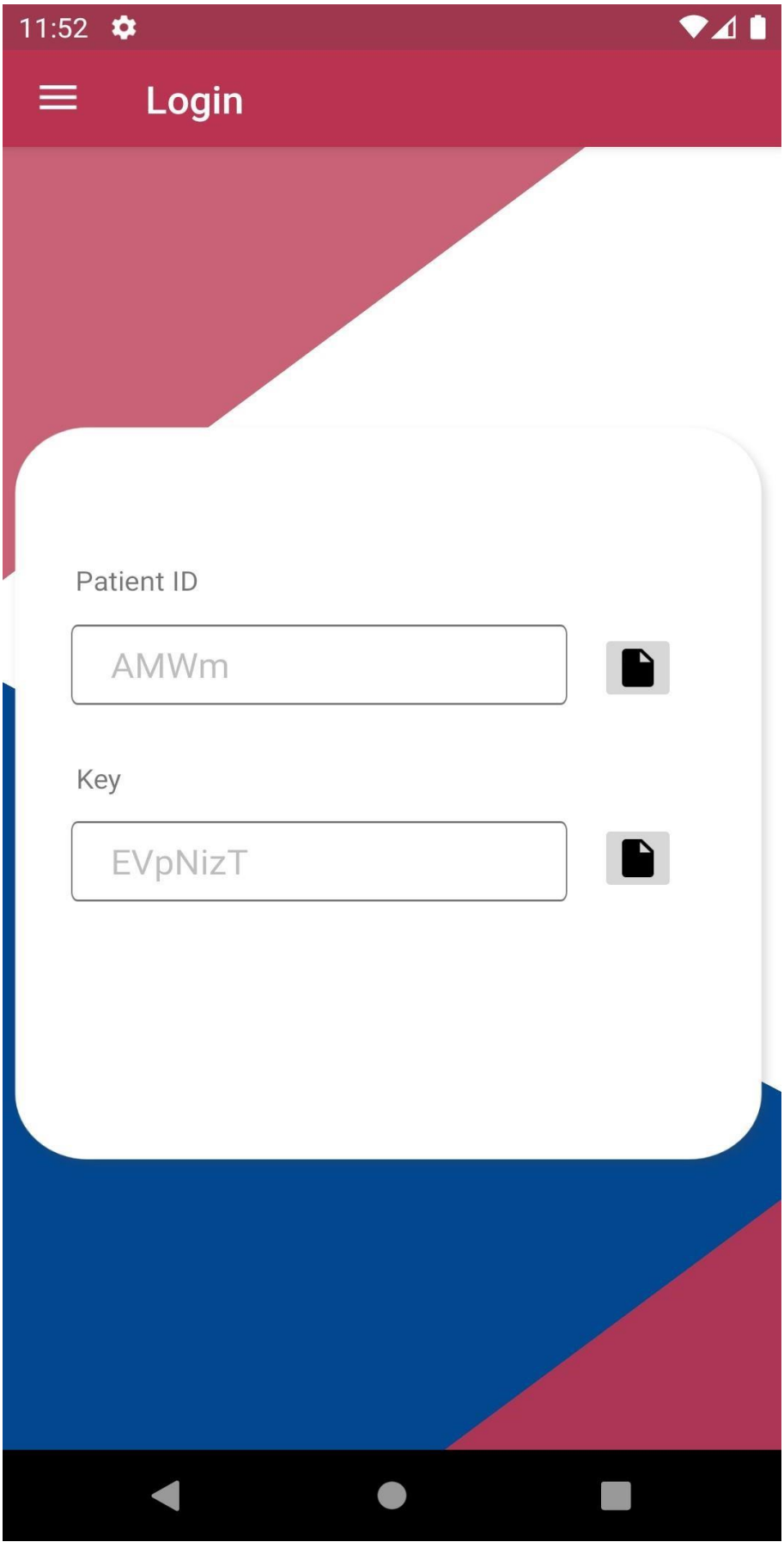


Doctor Login

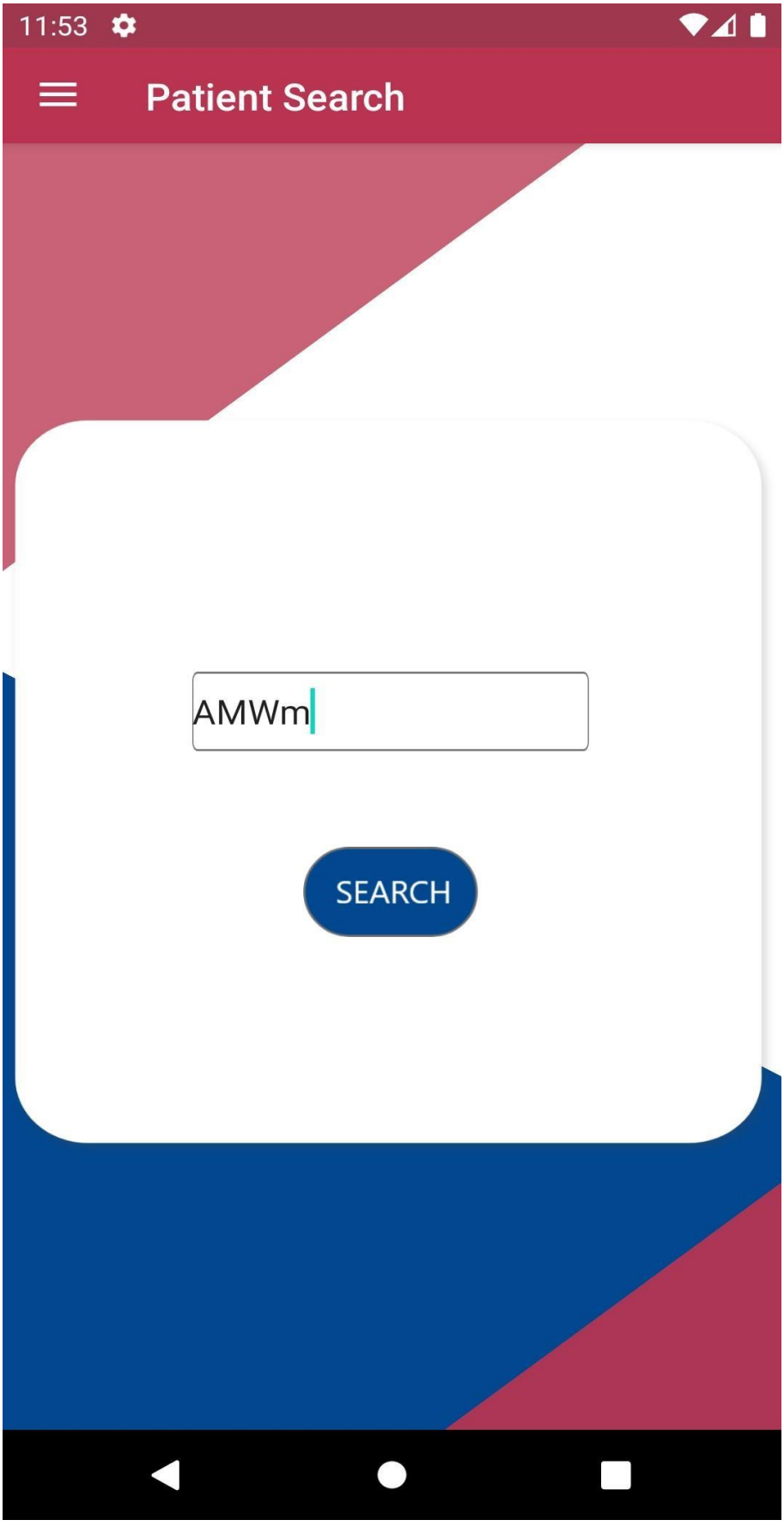
Patient view for doctors

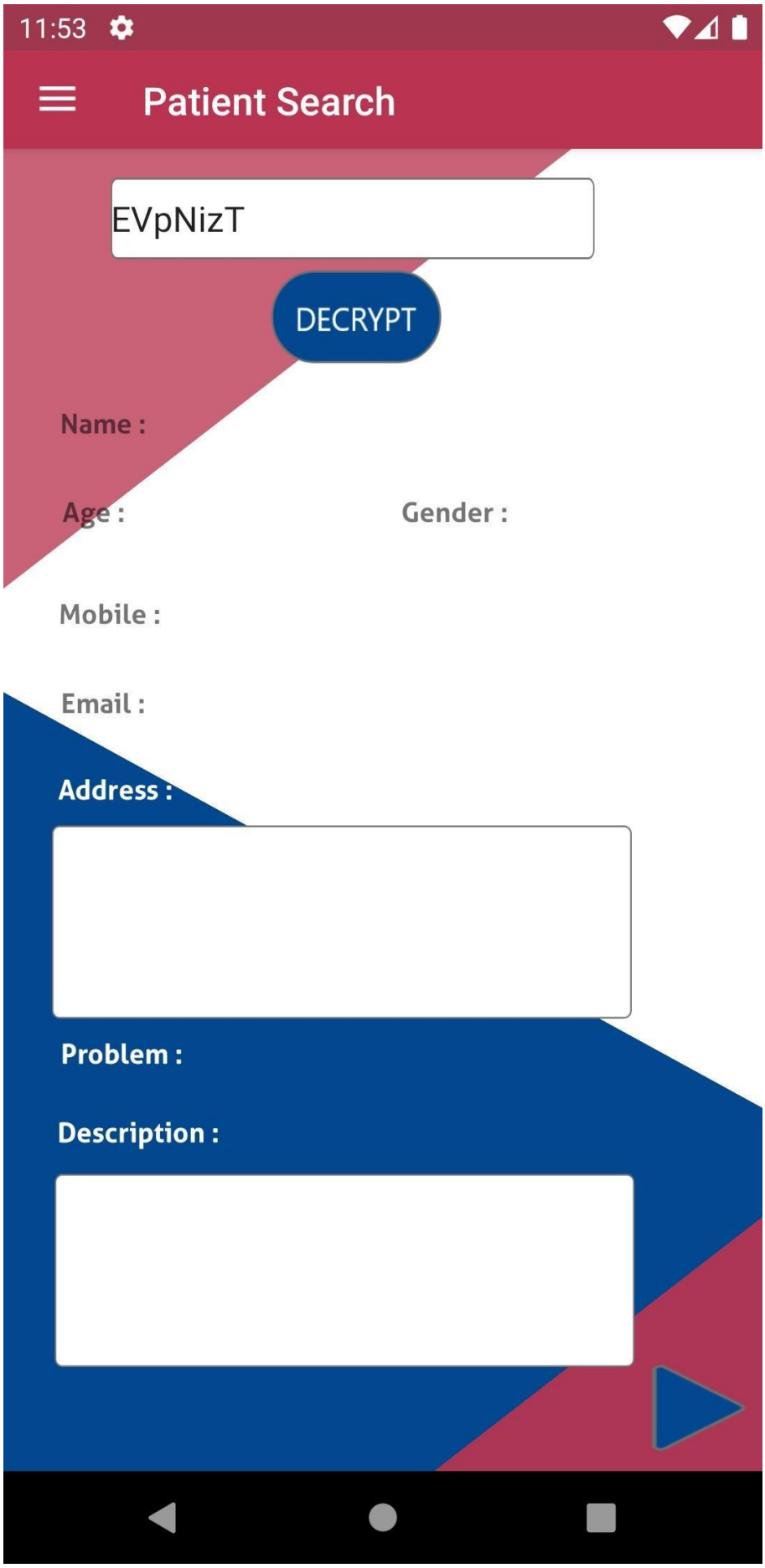

11:50
Login
AMWm
RMxk
Rcbv
Sbdz
lqkq
znhi

Patient ID and KEY

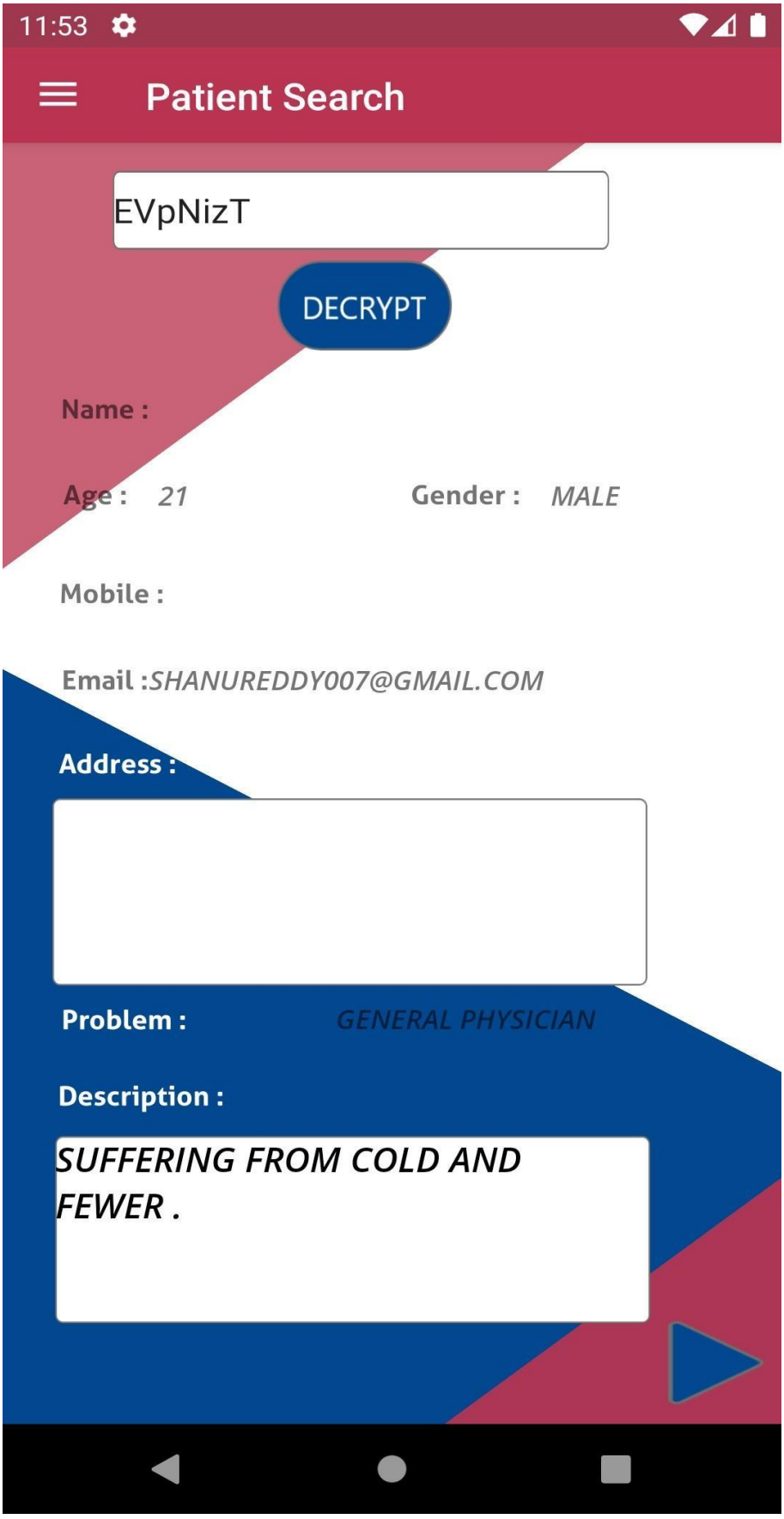


Patient Search

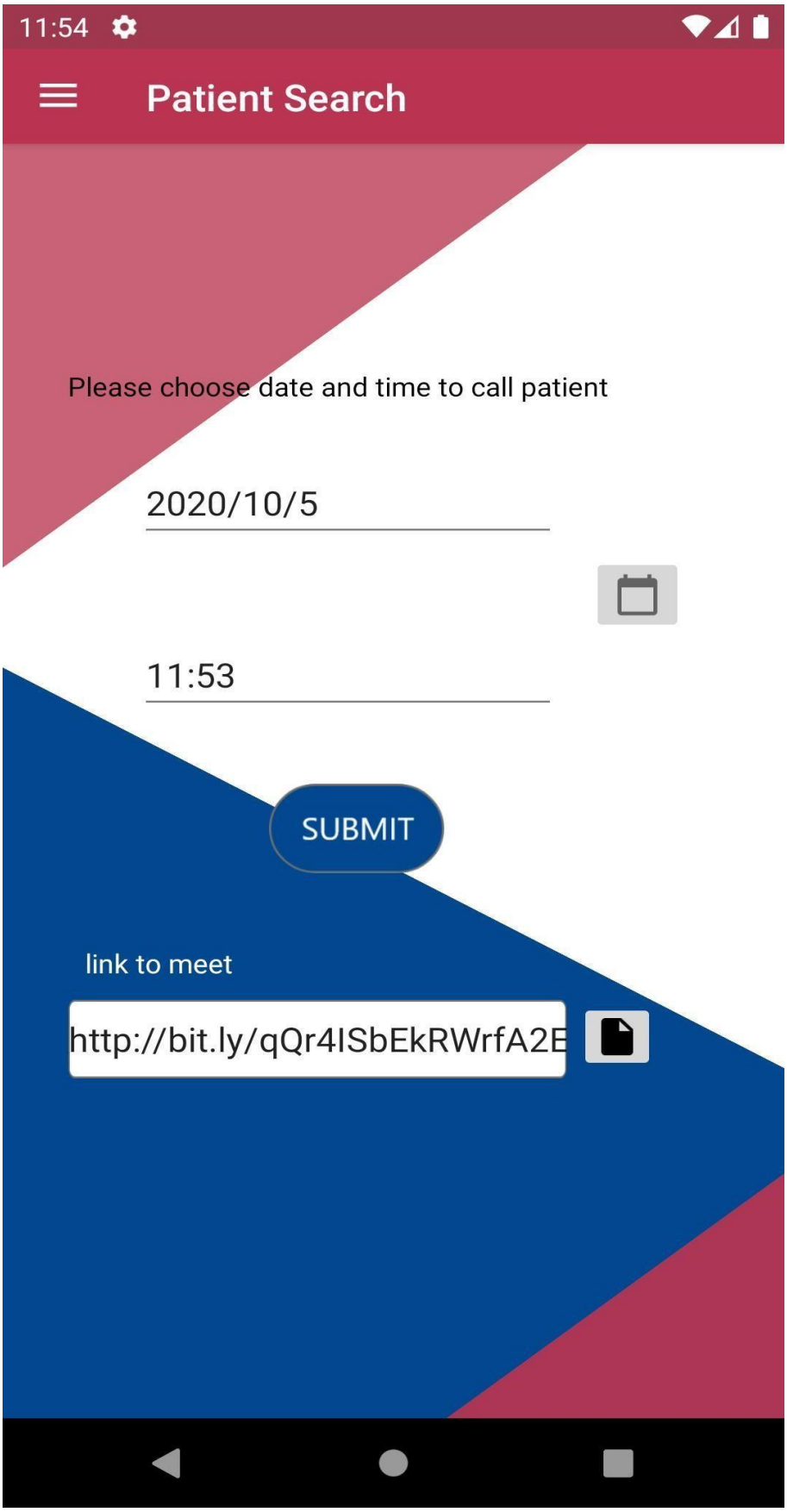



11:53
Patient Search
EVpNizT
DECRYPT
Name :
Age :
Gender :
Mobile :
Email :
Address :
Problem :
Description :

Decrypted details



Data and time allocation for patient and sent to email



shanureddy78@gmail.com 10:26 (1 hour ago)

to me

Your consultation requrest has been accepted by the doctor.Please make your self available at 2020/10/5 Time :10:26 .Use the link http://bit.ly/jt4ynpap4UuyFC6TY9PwAjpsng1 to contact the doctor

Reply Forward