**Chapter 5. IMPLEMENTATION AND RESULT**

**5.1 Introduction**

Code output is the result that a computer program generates when it is executed. When a programmer writes code, they use a specific programming language and syntax to give instructions to the computer on what actions to perform. The program can range from a few lines of code to a large, complex software system.

Once the programmer has written the code, they will compile or run the program. This process generates an output, which can be in various forms, such as text, numbers, graphics, or other types of data. The output serves as feedback on whether the program is functioning correctly or not.

Programmers use the output to debug their code, which involves identifying and fixing errors or bugs in the program. The output helps programmers understand what is happening within the program and allows them to make necessary changes to ensure it is working correctly.

Code output is an essential part of software development because it provides valuable information about the program's behavior and enables programmers to refine their code until it meets the desired outcome. The output can be used to generate reports, visualize data, or provide feedback to the user, among other purposes.

**5.2 Explanation of Key funtions**

* **Authentication**

Firebase Authentication provides backend services for easy use the SDKs and in-built UI libraries to authenticate the user in the application. Most of the apps need the identity of the user, and after knowing their status, the app saves the user's data securely in the cloud. It aims to build a secure authentication system.

Using Firebase Authentication, we will authenticate the log-in of Google, Facebook, GitHub, Twitter and more.

* **Database**

The Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in realtime to every connected client. When you build cross-platform apps with our Apple platforms, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.

* **RazorPay**

Razorpay Android App Payment Gateway supports over 100+ payment modes including Credit and Debit Cards (Visa, Mastercard, Rupay, AMEX, Diners), Net Banking from top 50+ banks, UPI (Web Collect & UPI Intent), Online Wallets, EMIs (Credit/Debit Cards & Cardless), PayLater and NEFT/RTGS payments.

**5.3 Method of implementation (code and snapshots)**

* **Manifest File Code:**

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

package="com.example.caredentapp">

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

<application

android:allowBackup="true" android:dataExtractionRules="@xml/data\_extraction\_rules" android:fullBackupContent="@xml/backup\_rules" android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name" android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true" android:theme="@style/Theme.AppCompat.Light"

tools:targetApi="31">

<activity

android:name=".MainActivity3"

android:exported="false" />

<activity

android:name=".MainActivity2"

android:exported="false" android:label="@string/title\_activity\_main2"

android:theme="@style/Theme.Design.NoActionBar" />

<activity

android:name=".RetrieveData"

android:exported="false" />

<activity

android:name=".AboutClinic"

android:exported="false" />

<activity

android:name=".OTP\_Verification\_Page\_Richa"android:exported="false" />

<activity

android:name=".AllAppointmentRicha"

android:exported="false" />

<activity

android:name=".AllAppointmentAkshay"

android:exported="false" />

<activity

android:name=".ContactUsDataForDoctor"

android:exported="false" />

<activity

android:name=".ContactUs"

android:exported="false" />

<activity

android:name=".EditProflePage"

android:exported="false" />

<activity

android:name=".ContactUsPage"

android:exported="false" />

<activity

android:name=".OTP\_Verification\_Registration"

android:exported="false" />

<activity

android:name=".Doctor1Dash"

android:exported="false" />

<activity

android:name=".Doctor3Dash"

android:exported="false" />

<activity

android:name=".Doctor2Dash"

android:exported="false" />

<activity

android:name=".UserProfilePage"

android:exported="false" />

<activity

android:name=".OTP\_Verification\_Page"

android:exported="false" />

<activity

android:name=".DoctorLogin"

android:exported="false" />

<activity

android:name=".AllAppointmentForDoctor"

android:exported="false" />

<activity

android:name=".DoctorDash"

android:exported="false" />

<activity

android:name=".Doctor2"

android:exported="false" />

<activity

android:name=".Doctor3"

android:exported="false" />

<activity

android:name=".BookAppointment"

android:exported="false" />

<activity

android:name=".Doctor1"

android:exported="false" />

<activity

android:name=".AllAppointment"

android:exported="false" />

<activity

android:name=".DashboardPage"

android:exported="false" />

<activity

android:name=".RegisterPage"

android:exported="false" />

<activity

android:name=".LoginPage"

android:exported="false" />

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

* **LoginPage.xml Code:**

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

<LinearLayout 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=".LoginPage"

android:background="@color/white"

android:orientation="vertical">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

android:layout\_marginTop="45sp"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="40dp"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center"

android:text="Login"

android:textColor="@color/black"

android:textSize="35dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_marginTop="80dp"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<ImageView

android:layout\_marginLeft="30dp"

android:layout\_width="35dp"

android:layout\_height="35dp"

android:background="@drawable/emaillogo"

android:layout\_gravity="center"

/>

<EditText

android:id="@+id/etLoginEmail"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="00dp"

android:inputType="textEmailAddress"

android:layout\_marginRight="50dp"

android:hint="Email"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:textColor="@color/black"

android:textColorHint="#D3D3D3"

android:textSize="20dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

>

<ImageView

android:layout\_width="35dp"

android:layout\_height="35dp"

android:background="@drawable/locklogo"

android:layout\_gravity="center"

android:layout\_marginLeft="30dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:textColor="@color/black"

android:fontFamily="@font/poppins"

android:id="@+id/etLoginPass"

android:inputType="textPassword"

android:backgroundTint="#079BF5"

android:layout\_marginRight="50dp"

android:textColorHint=" #D3D3D3"

android:textSize="20dp"

/>

</LinearLayout>

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Remember Me"

android:id="@+id/remember\_me"

android:textColor="@color/black"

android:buttonTint="@color/black"

android:layout\_marginLeft="50dp"

/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:layout\_marginRight="100dp"

android:id="@+id/btnLogin"

android:background="@drawable/all\_buttons"

android:text="LOGIN"

android:layout\_marginTop="50dp"

/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:layout\_marginRight="100dp"

android:id="@+id/btnLoginforDoctor"

android:background="@drawable/all\_buttons"

android:text="LOGIN FOR DOCTORS ONLY"

android:layout\_marginTop="10dp"

/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_marginBottom="00dp"

android:orientation="vertical"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Don't have an account?"

android:gravity="center"

android:layout\_gravity="center"

android:layout\_marginTop="120dp"

android:textColor="@color/black"

android:textSize="12dp"

/>

<Button

android:layout\_height="wrap\_content"

android:layout\_width="match\_parent"

android:layout\_marginLeft="100dp"

android:layout\_gravity="center"

android:id="@+id/btnRegisterfrmLogin"

android:background="@drawable/all\_buttons"

android:layout\_marginRight="100dp"

android:text="REGISTER"

/>

</LinearLayout>

</LinearLayout>

* **LoginPage.java Code:**

**** package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.text.TextUtils;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;

public class LoginPage extends AppCompatActivity {

EditText etLoginEmail,etLoginPass;

Button btnLogin,btn\_register,btndoctorlogin;

FirebaseAuth mAuth;

public static final String sharedprefs= "sharedprefs";

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login\_page);

getSupportActionBar().hide();

checkBox();

btn\_register = findViewById(R.id.btnRegisterfrmLogin);

etLoginEmail = findViewById(R.id.etLoginEmail);

etLoginPass = findViewById(R.id.etLoginPass);

btnLogin = findViewById(R.id.btnLogin);

btndoctorlogin = findViewById(R.id.btnLoginforDoctor);

mAuth = FirebaseAuth.getInstance();

btndoctorlogin.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(LoginPage.this,DoctorLogin.class));

finish();

}

});

btn\_register.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

movetoregisterpage();

}

});

btnLogin.setOnClickListener(view ->{

LoginUser();

});

}

private void checkBox() {

SharedPreferences sharedPreferences = getSharedPreferences(sharedprefs,MODE\_PRIVATE);

String check = sharedPreferences.getString("name","");

if (check.equals("true")){

Toast.makeText(LoginPage.this, "User Logged In successfully", Toast.LENGTH\_LONG).show();

startActivity(new Intent(LoginPage.this, DashboardPage.class));

finish();

}

}

private void LoginUser() {

String email = etLoginEmail.getText().toString();

String password = etLoginPass.getText().toString();

if (TextUtils.isEmpty(email)) {

etLoginEmail.setError("Email cannot be Empty");

etLoginEmail.requestFocus();

} else if (TextUtils.isEmpty(password)) {

etLoginPass.setError("Password cannot be Empty");

etLoginPass.requestFocus();

} else {

mAuth.signInWithEmailAndPassword(email, password).addOnCompleteListener(new OnCompleteListener<AuthResult>() {

@Override

public void onComplete(@NonNull Task<AuthResult> task) {

if (task.isSuccessful()) {

SharedPreferences sharedPreferences = getSharedPreferences(sharedprefs,MODE\_PRIVATE);

SharedPreferences.Editor editor = sharedPreferences.edit();

editor.putString("name","true");

editor.apply();

Toast.makeText(LoginPage.this, "User Logged In successfully", Toast.LENGTH\_LONG).show();

startActivity(new Intent(LoginPage.this, DashboardPage.class));

} else {

Toast.makeText(LoginPage.this, "Login In Error - " + task.getException().getMessage(), Toast.LENGTH\_SHORT).show();

}

}

});

}

}

private void movetoregisterpage(){

Intent intent = new Intent(LoginPage.this,RegisterPage.class);

startActivity(intent);

}

}

* **RegisterPage.xml Code:**

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

<LinearLayout 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:orientation="vertical"

android:background="@color/white"

tools:context=".RegisterPage">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="45dp"

android:orientation="vertical"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Register"

android:gravity="center"

android:fontFamily="@font/poppins\_semibold"

android:textSize="35dp"

android:textColor="@color/black"

android:layout\_marginTop="40dp"

/>

</LinearLayout>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:id="@+id/etRegName"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Email"

android:inputType="textEmailAddress"

android:id="@+id/etRegEmail"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:layout\_marginTop="13dp"

android:textColor="@color/black"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textSize="20dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:inputType="textPassword"

android:layout\_marginLeft="50dp"

android:id="@+id/etRegPass"

android:layout\_marginRight="50dp"

android:fontFamily="@font/poppins"

android:layout\_marginTop="13dp"

android:backgroundTint="#079BF5"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Confirm Password"

android:layout\_marginLeft="50dp"

android:id="@+id/etRegConPass"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:layout\_marginTop="13dp"

android:inputType="textPassword"

android:textColor="@color/black"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:textSize="20dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Phone Number"

android:layout\_marginLeft="50dp"

android:id="@+id/etRegPhoneNo"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:inputType="number"

android:layout\_marginRight="50dp"

android:layout\_marginTop="13dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:background="@drawable/all\_buttons"

android:layout\_marginRight="100dp"

android:text="REGISTER"

android:id="@+id/btnRegister"

android:layout\_marginTop="100dp"

/>

</LinearLayout>

* **RegisterPage.java Code:**

 package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.text.TextUtils;

import android.util.Log;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.FirebaseException;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;

import com.google.firebase.auth.PhoneAuthCredential;

import com.google.firebase.auth.PhoneAuthProvider;

import com.google.firebase.database.FirebaseDatabase;

import java.util.HashMap;

import java.util.concurrent.TimeUnit;

public class RegisterPage extends AppCompatActivity {

FirebaseAuth mAuth;

EditText etRegEmail,etRegPass,etRegName,etRegPhoneNo,etRegConPass;

Button btnRegister;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_register\_page);

getSupportActionBar().hide();

etRegConPass = findViewById(R.id.etRegConPass);

etRegPhoneNo = findViewById(R.id.etRegPhoneNo);

etRegName = findViewById(R.id.etRegName);

btnRegister = findViewById(R.id.btnRegister);

etRegEmail = findViewById(R.id.etRegEmail);

etRegPass = findViewById(R.id.etRegPass);

mAuth = FirebaseAuth.getInstance();

btnRegister.setOnClickListener(view ->{

createUser();

});

}

private void createUser(){

String email = etRegEmail.getText().toString();

String password = etRegPass.getText().toString();

String conpassword = etRegConPass.getText().toString();

String name = etRegName.getText().toString();

String phoneno = etRegPhoneNo.getText().toString();

if(TextUtils.isEmpty(name)){

etRegName.setError("Name cannot be empty");

etRegName.requestFocus();

}else if(TextUtils.isEmpty(email)){

etRegEmail.setError("Email cannot be Empty");

etRegEmail.requestFocus();

}else if(TextUtils.isEmpty(password)){

etRegPass.setError("Password cannot be Empty");

etRegPass.requestFocus();

}else if(!TextUtils.equals(conpassword,password)){

etRegConPass.setError("Confirm Password doesn't match Password");

etRegConPass.requestFocus();

}else if(etRegPhoneNo.length() != 10){

etRegPhoneNo.setError("Enter Correct Phone Number");

etRegPhoneNo.requestFocus();

}else {

mAuth.createUserWithEmailAndPassword(email,password).addOnCompleteListener(new OnCompleteListener<AuthResult>() {

@Override

public void onComplete(@NonNull Task<AuthResult> task) {

if(task.isSuccessful()){

registerUser();

Toast.makeText(RegisterPage.this,"Successfully reigstered",Toast.LENGTH\_LONG).show();

//startActivity(new Intent(RegisterPage.this,LoginPage.class));

Intent intent = new Intent(RegisterPage.this, LoginPage.class);

startActivity(intent);

Intent intent1 = new Intent(RegisterPage.this,UserProfilePage.class);

//intent.putExtra("profile\_name\_intent",name);

//startActivity(intent1);

}else{

Toast.makeText(RegisterPage.this, "Registration Error" + task.getException().getMessage(), Toast.LENGTH\_SHORT).show();

}

}

});

}

}

private void registerUser(){

String reg\_nametosend = etRegName.getText().toString();

String reg\_phonenumbertosend = etRegPhoneNo.getText().toString();

String reg\_emailtosend = etRegEmail.getText().toString();

HashMap<String,Object> map1 = new HashMap<>();

map1.put("name",etRegName.getText().toString());

map1.put("phone",etRegPhoneNo.getText().toString());

map1.put("email",reg\_emailtosend);

FirebaseDatabase.getInstance().getReference().child("Profile").setValue(map1).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Intent intent = new Intent(RegisterPage.this,LoginPage.class);

intent.putExtra("name1",reg\_nametosend);

intent.putExtra("reason1",reg\_phonenumbertosend);

startActivity(intent);

finish();

Toast.makeText(getApplicationContext(), "Registered", Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Failed to Reg", Toast.LENGTH\_SHORT).show();

}

}

});

}

}

* **BookAppointment.xml**

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

<LinearLayout 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:orientation="vertical"

android:background="@color/white"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".BookAppointment">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal"

android:background="#82CAFF"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="BOOK APPOINTMENT"

android:textSize="25dp"

android:layout\_marginTop="5dp"

android:textColor="@color/black"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:layout\_gravity="center"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center\_horizontal"

/>

</LinearLayout>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter your Name"

android:layout\_marginLeft="30dp"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:textColor="@color/black"

android:textColorHint="#D3D3D3"

android:id="@+id/et\_name"

android:layout\_marginRight="30dp"

android:textSize="25dp"

android:layout\_marginTop="50dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:textColor="@color/black"

android:textColorHint="#D3D3D3"

android:hint="Appointment Reason"

android:layout\_marginLeft="30dp"

android:id="@+id/et\_reason"

android:layout\_marginRight="30dp"

android:textSize="25dp"

android:layout\_marginTop="20dp"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Select your Date"

android:textSize="25dp"

android:gravity="center"

android:layout\_marginTop="20dp"

android:textColor="@color/black"

/>

<Button

android:id="@+id/date\_input"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:layout\_marginTop="15dp"

android:textSize="17dp"

android:layout\_marginRight="100dp"

android:background="@drawable/all\_buttons"

android:text="Pick Date" />

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Available Doctors"

android:textSize="25dp"

android:gravity="center"

android:layout\_marginTop="20dp"

android:textColor="@color/black"

/>

<HorizontalScrollView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="10dp"

>

<RadioGroup

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

>

<RadioButton

android:layout\_margin="10dp"

android:textAlignment="center"

android:id="@+id/radio\_doct1"

android:button="@color/white"

android:background="@drawable/custom\_radio\_selector"

android:layout\_width="150dp"

android:layout\_height="150dp"

android:text="DR. Akshay"

android:textColor="@drawable/custom\_radio\_text"/>

<RadioButton

android:textAlignment="center"

android:background="@drawable/custom\_radio\_selector"

android:layout\_width="150dp"

android:layout\_margin="10dp"

android:button="@color/white"

android:id="@+id/radio\_doct2"

android:layout\_height="150dp"

android:text="DR. Richa"

android:textColor="@drawable/custom\_radio\_text"/>

<RadioButton

android:textAlignment="center"

android:layout\_width="150dp"

android:id="@+id/radio\_doct3"

android:layout\_margin="10dp"

android:button="@color/white"

android:layout\_height="150dp"

android:background="@drawable/custom\_radio\_selector"

android:text="DR. VaZe"

android:textColor="@color/black"/>

</RadioGroup>

</HorizontalScrollView>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Book And Pay ₹150"

android:id="@+id/book\_appointment"

android:layout\_marginTop="20dp"

android:layout\_marginLeft="100dp"

android:layout\_marginRight="100dp"

android:background="@drawable/all\_buttons"

/>

</LinearLayout>

* **BookAponintment.java**

**** package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.content.res.ResourcesCompat;

import android.app.Activity;

import android.app.DatePickerDialog;

import android.app.Notification;

import android.app.NotificationChannel;

import android.app.NotificationManager;

import android.app.TimePickerDialog;

import android.content.Intent;

import android.graphics.Bitmap;

import android.graphics.drawable.BitmapDrawable;

import android.graphics.drawable.Drawable;

import android.os.Bundle;

import android.text.TextUtils;

import android.text.format.DateFormat;

import android.util.Log;

import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.EditText;

import android.widget.ImageButton;

import android.widget.RadioButton;

import android.widget.TextView;

import android.widget.TimePicker;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.razorpay.Checkout;

import com.razorpay.PaymentResultListener;

import org.json.JSONObject;

import java.util.Calendar;

import java.util.HashMap;

public class BookAppointment extends AppCompatActivity implements PaymentResultListener {

private static final String CHANNEL\_ID = "My Channel";

private static final int NOTIFICATION\_ID = 100;

Button date\_in, book\_appointment;

EditText et\_name,et\_reason;

DatabaseReference info;

String dateString = "",selected\_doctor;

ImageButton dr\_akshay,dr\_richa;

RadioButton radio\_doct1,radio\_doct2,radio\_doct3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_book\_appointment);

getSupportActionBar().hide();

date\_in = findViewById(R.id.date\_input);

book\_appointment = findViewById(R.id.book\_appointment);

et\_name = findViewById(R.id.et\_name);

et\_reason = findViewById(R.id.et\_reason);

radio\_doct1 = findViewById(R.id.radio\_doct1);

radio\_doct2 = findViewById(R.id.radio\_doct2);

radio\_doct3 = findViewById(R.id.radio\_doct3);

Checkout.preload(getApplicationContext());

date\_in.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

selectdate();

}

});

book\_appointment.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String nametosend = et\_name.getText().toString();

String reasontosend = et\_reason.getText().toString();

if (TextUtils.isEmpty(nametosend)){

//Toast.makeText(getApplicationContext(),"Enter your Name" , Toast.LENGTH\_SHORT).show();

et\_name.setError("Please Enter your Name!");

et\_name.requestFocus();

}else if (TextUtils.isEmpty(reasontosend)){

et\_reason.setError("Please Enter your Reason");

et\_reason.requestFocus();

}else if(dateString.isEmpty()){

Toast.makeText(BookAppointment.this, "Please Select a Date", Toast.LENGTH\_SHORT).show();

}else{

paymentnow("15000");

//goback();

}

/\*

info = FirebaseDatabase.getInstance().getReference().child("Name");

String name = et\_name.getText().toString();

String reason = et\_reason.getText().toString();

Patients patients = new Patients(name,reason);

info.push().setValue(patients);

Toast.makeText(BookAppointment.this,"Appontment Booked",Toast.LENGTH\_SHORT).show();

\*/

}

});

}

private void goback() {

startActivity(new Intent(BookAppointment.this, DashboardPage.class));

}

public void selectdate(){

Calendar calendar = Calendar.getInstance();

int Year = calendar.get(Calendar.YEAR);

int Month = calendar.get(Calendar.MONTH);

int Day = calendar.get(Calendar.DATE);

DatePickerDialog datePickerDialog = new DatePickerDialog(this, new DatePickerDialog.OnDateSetListener() {

@Override

public void onDateSet(DatePicker datePicker, int year, int month, int date) {

dateString = date + "/" + (month + 1) + "/" + year;

date\_in.setText(dateString);

/\*

HashMap<String,Object> map = new HashMap<>();

map.put("date",dateString);

FirebaseDatabase.getInstance().getReference().child("Patients").push().setValue(map).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Intent intent = new Intent(BookAppointment.this,AllAppointment.class);

intent.putExtra("date1",dateString);

Toast.makeText(getApplicationContext(), "Appointment Booked", Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Failed to Book", Toast.LENGTH\_SHORT).show();

}

}

});

\*/

}

},Year,Month,Day);

datePickerDialog.show();

}

private void paymentnow(String amount){

final Activity activity = this;

Checkout checkout = new Checkout();

checkout.setKeyID("rzp\_test\_PyqlhTycsKqnMA");

double newamount = Float.parseFloat(amount) \* 100;

try {

JSONObject options = new JSONObject();

options.put("name", "CareDent");

options.put("description", "Reference No. #123456");

options.put("image", "https://s3.amazonaws.com/rzp-mobile/images/rzp.jpg");

//options.put("order\_id", "order\_DBJOWzybf0sJbb");//from response of step 3.

options.put("theme.color", "#3399cc");

options.put("currency", "INR");

options.put("amount", "15000");//pass amount in currency subunits

options.put("prefill.email", "ayushvaze2003@gmail.com");

options.put("prefill.contact","9988776655");

JSONObject retryObj = new JSONObject();

retryObj.put("enabled", true);

retryObj.put("max\_count", 4);

options.put("retry", retryObj);

checkout.open(activity, options);

} catch(Exception e) {

Log.e("TAG", "Error in starting Razorpay Checkout", e);

}

}

@Override

public void onPaymentSuccess(String s) {

Toast.makeText(getApplicationContext(), "Payment Successful" , Toast.LENGTH\_SHORT).show();

sendNotification();

if (radio\_doct1.isChecked()){

select\_doct1();

} else if (radio\_doct2.isChecked()){

select\_doct2();

} else if (radio\_doct3.isChecked()){

select\_doct3();

}

// else if (!(radio\_doct1.isChecked()) && !(radio\_doct2.isChecked()) && !(radio\_doct3.isChecked())){

// Toast.makeText(this, "Please Select a Doctor", Toast.LENGTH\_SHORT).show();

// }

}

private void select\_doct3() {

String nametosend2 = et\_name.getText().toString();

String reasontosend2 = et\_reason.getText().toString();

selected\_doctor = "VaZe";

HashMap<String,Object> map = new HashMap<>();

map.put("name",et\_name.getText().toString());

map.put("reason",et\_reason.getText().toString());

map.put("date",dateString);

map.put("doctor",selected\_doctor);

FirebaseDatabase.getInstance().getReference().child("VaZe").push().setValue(map).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Intent intent = new Intent(BookAppointment.this,AllAppointment.class);

intent.putExtra("name1",nametosend2);

intent.putExtra("reason1",reasontosend2);

intent.putExtra("date1",dateString);

intent.putExtra("doctor1",selected\_doctor);

startActivity(intent);

Toast.makeText(getApplicationContext(), "Appintment Booked", Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Failed to Book", Toast.LENGTH\_SHORT).show();

}

}

});

}

private void select\_doct2() {

String nametosend1 = et\_name.getText().toString();

String reasontosend1 = et\_reason.getText().toString();

selected\_doctor = "Richa";

HashMap<String,Object> map = new HashMap<>();

map.put("name",et\_name.getText().toString());

map.put("reason",et\_reason.getText().toString());

map.put("date",dateString);

map.put("doctor",selected\_doctor);

FirebaseDatabase.getInstance().getReference().child("Richa").push().setValue(map).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Intent intent = new Intent(BookAppointment.this,AllAppointment.class);

intent.putExtra("name1",nametosend1);

intent.putExtra("reason1",reasontosend1);

intent.putExtra("date1",dateString);

intent.putExtra("doctor1",selected\_doctor);

startActivity(intent);

Toast.makeText(getApplicationContext(), "Appintment Booked", Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Failed to Book", Toast.LENGTH\_SHORT).show();

}

}

});

}

private void select\_doct1() {

String nametosend = et\_name.getText().toString();

String reasontosend = et\_reason.getText().toString();

selected\_doctor = "Akshay";

HashMap<String,Object> map = new HashMap<>();

map.put("name",et\_name.getText().toString());

map.put("reason",et\_reason.getText().toString());

map.put("date",dateString);

map.put("doctor",selected\_doctor);

FirebaseDatabase.getInstance().getReference().child("Akshay").push().setValue(map).addOnCompleteListener(new OnCompleteListener<Void>() {

@Override

public void onComplete(@NonNull Task<Void> task) {

if(task.isSuccessful()){

Intent intent = new Intent(BookAppointment.this,AllAppointment.class);

intent.putExtra("name1",nametosend);

intent.putExtra("reason1",reasontosend);

intent.putExtra("date1",dateString);

intent.putExtra("doctor1",selected\_doctor);

startActivity(intent);

finish();

Toast.makeText(getApplicationContext(), "Appintment Booked", Toast.LENGTH\_SHORT).show();

}else{

Toast.makeText(getApplicationContext(), "Failed to Book", Toast.LENGTH\_SHORT).show();

}

}

});

}

@Override

public void onPaymentError(int i, String s) {

Toast.makeText(getApplicationContext(), "Payment Unsuccessful" , Toast.LENGTH\_SHORT).show();

Intent intent = new Intent(BookAppointment.this,DashboardPage.class);

startActivity(intent);

}

public void select\_doctor(){

selected\_doctor = null;

if (radio\_doct1.isChecked()){

selected\_doctor = "Akshay";

} else if (radio\_doct2.isChecked()){

selected\_doctor = "Richa";

} else {

selected\_doctor = "Ayush";

}

Toast.makeText(getApplicationContext(), "Your Doctor : " + selected\_doctor, Toast.LENGTH\_SHORT).show();

}

public void sendNotification(){

Notification notification;

Drawable drawable = ResourcesCompat.getDrawable(getResources(), R.drawable.icon1 , null);

BitmapDrawable bitmapDrawable = (BitmapDrawable) drawable;

Bitmap largeIcon = bitmapDrawable.getBitmap();

NotificationManager nm = (NotificationManager) getSystemService(NOTIFICATION\_SERVICE);

if (android.os.Build.VERSION.SDK\_INT >= android.os.Build.VERSION\_CODES.O) {

notification = new Notification.Builder(this)

.setLargeIcon(largeIcon)

.setSmallIcon(R.drawable.icon1)

.setContentText("Your Appointment has been booked Successfully on " + dateString)

.setSubText("Appointment Message")

.setChannelId(CHANNEL\_ID)

.build();

nm.createNotificationChannel(new NotificationChannel(CHANNEL\_ID,"New Channel" , NotificationManager.IMPORTANCE\_HIGH));

}else{

notification = new Notification.Builder(this)

.setLargeIcon(largeIcon)

.setSmallIcon(R.drawable.icon1)

.setContentText("Your Appointment has been booked Successfully")

.setSubText("Appointment Message")

.build();

}

nm.notify(NOTIFICATION\_ID, notification);

}

}

* **UserProfile.xml**

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

<LinearLayout 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="@color/white"

android:orientation="vertical"

tools:context=".UserProfilePage">

<!-- top bar -->

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal"

android:background="#82CAFF"

>

<LinearLayout

android:layout\_width="wrap\_content"

android:gravity="center"

android:layout\_height="match\_parent"

android:orientation="vertical">

<ImageButton

android:layout\_width="50dp"

android:layout\_gravity="center"

android:layout\_height="50dp"

android:background="@drawable/arrow2"

android:id="@+id/back\_to\_dashboard\_from\_profile"

/>

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:gravity="center"

android:layout\_marginLeft="300dp"

android:layout\_height="match\_parent"

android:orientation="vertical">

<ImageButton

android:layout\_width="50dp"

android:layout\_height="50dp"

android:background="@drawable/editlogo1"

android:id="@+id/edit\_profile"

/>

</LinearLayout>

</LinearLayout>

<!-- Profile Top bar -->

<!-- Profile Middle Bar -->

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="20dp"

android:layout\_marginRight="20dp"

android:background="@drawable/profile\_background"

android:orientation="vertical">

<de.hdodenhof.circleimageview.CircleImageView

android:id="@+id/profile\_picture"

android:layout\_width="120dp"

android:layout\_height="120dp"

android:layout\_gravity="center"

android:src="@drawable/female\_doc\_logo"

android:layout\_marginTop="20dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:background="@drawable/profile\_background"

android:orientation="vertical">

<TextView

android:id="@+id/profile\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:gravity="center"

android:text=""

android:textColor="@color/black"

android:textSize="25dp" />

<TextView

android:id="@+id/profile\_phone"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="0dp"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center"

android:text=""

android:textColor="@color/black"

android:textSize="20dp" />

<TextView

android:id="@+id/profile\_email"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="0dp"

android:layout\_marginBottom="10dp"

android:gravity="center"

android:text="ayush1@gmail.com"

android:textColor="@color/black"

android:textSize="20dp" />

</LinearLayout>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginTop="20dp"

android:background="@drawable/profile\_background"

android:orientation="vertical">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Contact Us"

android:fontFamily="@font/poppins"

android:textColor="@color/black"

android:id="@+id/contactus"

android:textSize="25dp"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="15dp"

android:layout\_marginBottom="10dp"

/>

<TextView

android:layout\_width="match\_parent"

android:fontFamily="@font/poppins"

android:layout\_height="wrap\_content"

android:text="Share App"

android:textColor="@color/black"

android:textSize="25dp"

android:id="@+id/shareapp"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="15dp"

android:layout\_marginBottom="10dp"

/>

</LinearLayout>

<!-- Log Out Bar -->

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:layout\_marginTop="20dp"

android:background="@drawable/profile\_background"

android:orientation="vertical">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="LOG OUT"

android:id="@+id/logout\_btn"

android:textColor="@color/black"

android:gravity="center"

android:fontFamily="@font/poppins"

android:textSize="25dp"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="15dp"

android:layout\_marginBottom="10dp"

/>

</LinearLayout>

</LinearLayout>

* **UserProfilePage.java**

**** package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.provider.MediaStore;

import android.view.View;

import android.widget.ImageButton;

import android.widget.ImageView;

import android.widget.TextView;

import com.google.firebase.database.DataSnapshot;

import com.google.firebase.database.DatabaseError;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;

public class UserProfilePage extends AppCompatActivity {

TextView payment\_history,shareapp,contactus,changepassword,logout\_btn;

TextView profile\_name,profile\_phone,profile\_email;

ImageButton editprofile,backtodashfromprofile;

ImageView profilepic;

public static final String sharedprefs= "sharedprefs";

private final int value = 1000;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_user\_profile\_page);

shareapp = findViewById(R.id.shareapp);

profilepic = findViewById(R.id.profile\_picture);

logout\_btn = findViewById(R.id.logout\_btn);

contactus = findViewById(R.id.contactus);

editprofile = findViewById(R.id.edit\_profile);

backtodashfromprofile = findViewById(R.id.back\_to\_dashboard\_from\_profile);

profile\_name = findViewById(R.id.profile\_name);

profile\_phone = findViewById(R.id.profile\_phone);

profile\_email = findViewById(R.id.profile\_email);

FirebaseDatabase database1 = FirebaseDatabase.getInstance();

DatabaseReference myRef1 = database1.getReference("Profile/name");

DatabaseReference myRef2 = database1.getReference("Profile/email");

DatabaseReference myRef3 = database1.getReference("Profile/phone");

myRef1.addValueEventListener(new ValueEventListener() {

@Override

public void onDataChange(@NonNull DataSnapshot snapshot) {

String name = snapshot.getValue(String.class);

profile\_name.setText(name);

}

@Override

public void onCancelled(@NonNull DatabaseError error) {

}

});

myRef2.addValueEventListener(new ValueEventListener() {

@Override

public void onDataChange(@NonNull DataSnapshot snapshot) {

String email = snapshot.getValue(String.class);

profile\_email.setText(email);

}

@Override

public void onCancelled(@NonNull DatabaseError error) {

}

});

myRef3.addValueEventListener(new ValueEventListener() {

@Override

public void onDataChange(@NonNull DataSnapshot snapshot) {

String phone = snapshot.getValue(String.class);

profile\_phone.setText(phone);

}

@Override

public void onCancelled(@NonNull DatabaseError error) {

}

});

backtodashfromprofile.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(UserProfilePage.this,DashboardPage.class));

}

});

editprofile.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent iGallery = new Intent(Intent.ACTION\_PICK);

iGallery.setData(MediaStore.Images.Media.EXTERNAL\_CONTENT\_URI);

startActivityForResult(iGallery,value);

}

});

contactus.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(UserProfilePage.this,ContactUs.class));

}

});

shareapp.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent intent = new Intent();

intent.setAction(Intent.ACTION\_SEND);

intent.setType("text/plain");

intent.putExtra(Intent.EXTRA\_TEXT,"Download BC");

startActivity(Intent.createChooser(intent,"Choose one"));

}

});

logout\_btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

SharedPreferences sharedPreferences = getSharedPreferences(sharedprefs,MODE\_PRIVATE);

SharedPreferences.Editor editor = sharedPreferences.edit();

editor.putString("name","");

editor.apply();

Intent intent = new Intent(UserProfilePage.this,LoginPage.class);

startActivity(intent);

finish();

}

});

}

@Override

protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {

super.onActivityResult(requestCode, resultCode, data);

if (resultCode == RESULT\_OK){

if (requestCode == value){

profilepic.setImageURI(data.getData());

}

}

}

}

* **AllAppointmentForDoctor.xml**

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

<LinearLayout 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:orientation="vertical"

android:background="@drawable/profile\_background"

android:layout\_height="match\_parent"

tools:context=".AllAppointmentForDoctor">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal"

android:background="#82CAFF"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Appoinments Here"

android:textSize="25dp"

android:layout\_marginTop="5dp"

android:textColor="@color/black"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:layout\_gravity="center"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center\_horizontal"

/>

</LinearLayout>

<androidx.recyclerview.widget.RecyclerView

android:layout\_width="match\_parent"

android:layout\_marginTop="20dp"

android:layout\_marginLeft="20dp"

android:background="@color/white"

android:id="@+id/appointment\_recycler"

android:layout\_marginRight="20dp"

android:layout\_height="match\_parent">

</androidx.recyclerview.widget.RecyclerView>

</LinearLayout>

* **AllAppointmentForDoctor.java**

**** package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import androidx.recyclerview.widget.LinearLayoutManager;

import androidx.recyclerview.widget.RecyclerView;

import android.content.Context;

import android.os.Bundle;

import android.util.AttributeSet;

import com.google.firebase.database.DataSnapshot;

import com.google.firebase.database.DatabaseError;

import com.google.firebase.database.DatabaseReference;

import com.google.firebase.database.FirebaseDatabase;

import com.google.firebase.database.ValueEventListener;

import java.util.ArrayList;

public class AllAppointmentAkshay extends AppCompatActivity {

DatabaseReference database;

RecyclerView recyclerView;

AkshayAdapter akshayAdapter;

ArrayList<UserAkshay> list;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_all\_appointment\_akshay);

getSupportActionBar().hide();

recyclerView = findViewById(R.id.akshay\_recycler);

database = FirebaseDatabase.getInstance().getReference("Akshay");

recyclerView.setHasFixedSize(true);

recyclerView.setLayoutManager(new LinearLayoutManager(this));

list = new ArrayList<>();

akshayAdapter = new AkshayAdapter(this,list);

recyclerView.setAdapter(akshayAdapter);

database.addValueEventListener(new ValueEventListener() {

@Override

public void onDataChange(@NonNull DataSnapshot snapshot) {

for (DataSnapshot dataSnapshot:snapshot.getChildren()){

UserAkshay userAkshay = dataSnapshot.getValue(UserAkshay.class);

list.add(userAkshay);

}

akshayAdapter.notifyDataSetChanged();

}

@Override

public void onCancelled(@NonNull DatabaseError error) {

}

});

}

}

* **UserAkshay.java**

**** package com.example.caredentapp;

public class UserAkshay {

String name,date,reason,doctor;

public String getName() {

return name;

}

public String getDate() {

return date;

}

public String getReason() {

return reason;

}

public String getDoctor() {

return doctor;

}

}

* **OTP\_Verification\_Page.xml**

**** package com.example.caredentapp;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.text.Editable;

import android.text.TextWatcher;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;

import com.google.firebase.auth.PhoneAuthCredential;

import com.google.firebase.auth.PhoneAuthProvider;

public class OTP\_Verification\_Page extends AppCompatActivity {

Button otp\_submit\_btn;

String mobiledata,getbackendotp;

EditText num1,num2,num3,num4,num5,num6;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_otp\_verification\_page);

getSupportActionBar().hide();

otp\_submit\_btn = findViewById(R.id.submit\_button);

mobiledata = getIntent().getStringExtra("mobilenumber");

getbackendotp = getIntent().getStringExtra("backendotp");

num1 = findViewById(R.id.firstnumber);

num2 = findViewById(R.id.secondnumber);

num3 = findViewById(R.id.thirdnumber);

num4 = findViewById(R.id.fournumber);

num5 = findViewById(R.id.fivenumber);

num6 = findViewById(R.id.sixnumber);

otp\_submit\_btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

//startActivity(new Intent(OTP\_Verification\_Page.this,Doctor1Dash.class));

sendotp();

}

});

numbertomove();

}

public void sendotp(){

if(!num1.getText().toString().trim().isEmpty() &&

!num2.getText().toString().trim().isEmpty() &&

!num3.getText().toString().trim().isEmpty() &&

!num4.getText().toString().trim().isEmpty() &&

!num5.getText().toString().trim().isEmpty() &&

!num6.getText().toString().trim().isEmpty()){

String codeotp = num1.getText().toString() +

num2.getText().toString() +

num3.getText().toString() +

num4.getText().toString() +

num5.getText().toString() +

num6.getText().toString();

if(getbackendotp != null){

PhoneAuthCredential phoneAuthCredential = PhoneAuthProvider.getCredential(getbackendotp,codeotp);

FirebaseAuth.getInstance().signInWithCredential(phoneAuthCredential).addOnCompleteListener(new OnCompleteListener<AuthResult>() {

@Override

public void onComplete(@NonNull Task<AuthResult> task) {

if(task.isSuccessful()){

Intent intent = new Intent(OTP\_Verification\_Page.this,Doctor1Dash.class);

startActivity(intent);

}else{

Toast.makeText(getApplicationContext(),"Enter enter your correct OTP",Toast.LENGTH\_LONG).show();

}

}

});

}else{

Toast.makeText(getApplicationContext(),"Please check your Internet",Toast.LENGTH\_LONG).show();

}

}else{

Toast.makeText(getApplicationContext(),"Enter your OTP",Toast.LENGTH\_LONG).show();

}

}

private void numbertomove(){

num1.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(!charSequence.toString().trim().isEmpty()){

num2.requestFocus();

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

num2.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(!charSequence.toString().trim().isEmpty()){

num3.requestFocus();

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

num3.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(!charSequence.toString().trim().isEmpty()){

num4.requestFocus();

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

num4.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(!charSequence.toString().trim().isEmpty()){

num5.requestFocus();

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

num5.addTextChangedListener(new TextWatcher() {

@Override

public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {

}

@Override

public void onTextChanged(CharSequence charSequence, int i, int i1, int i2) {

if(!charSequence.toString().trim().isEmpty()){

num6.requestFocus();

}

}

@Override

public void afterTextChanged(Editable editable) {

}

});

}

}

* **Logo\_anim.xml**

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

<set xmlns:android="http://schemas.android.com/apk/res/android">

<scale

android:fromXScale="0"

android:fromYScale="0"

android:toXScale="1"

android:toYScale="1"

android:pivotY="50%"

android:pivotX="50%"

android:duration="1000"

/>

<alpha

android:fromAlpha="0.6"

android:toAlpha="1.0"

android:duration="1000"

/>

</set>

* **SMS Code:**

**** private void sendSms() {

if (ContextCompat.checkSelfPermission(BookAppointment.this, Manifest.permission.SEND\_SMS) == PackageManager.PERMISSION\_GRANTED){

String phone =et\_phone.getText().toString();

String name = et\_name.getText().toString();

smsShow = "Your Appointment Has been Successfully Booked on " + dateString;

if (!name.isEmpty() && !smsShow.isEmpty()){

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phone,null,smsShow,null,null);

Toast.makeText(this, "SMS Sent", Toast.LENGTH\_SHORT).show();

}else {

Toast.makeText(this, "ENTER Number and Message", Toast.LENGTH\_SHORT).show();

}

}else{

ActivityCompat.requestPermissions(BookAppointment.this, new String[]{Manifest.permission.SEND\_SMS},100);

}

}

* **DoctorProfile.xml Code:**

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

<LinearLayout 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=".Doctor1"

android:orientation="vertical"

android:background="@color/white"

>

<ScrollView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_margin="15dp"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

>

<LinearLayout

android:layout\_width="170dp"

android:layout\_height="170dp"

android:layout\_marginTop="50dp"

android:gravity="center"

android:layout\_marginLeft="12dp"

android:layout\_marginBottom="50dp"

android:orientation="vertical">

<de.hdodenhof.circleimageview.CircleImageView

android:layout\_width="170dp"

android:layout\_height="170dp"

android:src="@drawable/akshayprof"

></de.hdodenhof.circleimageview.CircleImageView>

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content"

android:layout\_marginTop="50dp"

android:layout\_height="wrap\_content"

android:orientation="vertical"

>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Dr. Akshay"

android:textColor="@color/black"

android:textSize="20dp"

android:textStyle="bold"

android:layout\_marginTop="58dp"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="DENTIST"

android:textSize="17dp"

android:textColor="@color/black"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="17dp"

android:text="BDS (Bachelor of Dental Surgery)"

android:textColor="@color/black"

/>

</LinearLayout>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="0dp"

android:background="#FAF9F6"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="SPECIALITY"

android:textSize="20dp"

android:layout\_marginLeft="20dp"

android:textStyle="bold"

android:textColor="#0089ED"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="EndoSopic"

android:padding="5dp"

android:layout\_gravity="center"

android:background="@drawable/custom\_radio\_selector"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#0089ED"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="5dp"

android:padding="5dp"

android:text="Laparoscopy"

android:layout\_gravity="center"

android:background="@drawable/custom\_radio\_selector"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#0089ED"

/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="25dp"

android:background="#FAF9F6"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="EXPIRIENCE"

android:textSize="20dp"

android:layout\_marginLeft="20dp"

android:textStyle="bold"

android:textColor="#0089ED"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:text="Hello, Myself Akshay and I am Dentist."

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#000000"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:text="Expirience - 5+ years"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#000000"

/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginTop="25dp"

android:background="#FAF9F6"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="CONTACTUS"

android:textSize="20dp"

android:layout\_marginLeft="20dp"

android:textStyle="bold"

android:textColor="#0089ED"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:text="akshay@gmail.com"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#000000"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="20dp"

android:layout\_marginRight="20dp"

android:text="9022001423"

android:textSize="20dp"

android:textStyle="bold"

android:textColor="#000000"

/>

</LinearLayout>

</LinearLayout>

</ScrollView>

</LinearLayout>

* **DoctorProfile.xml Code:**

package com.example.caredentapp;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class Doctor1 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_doctor1);

getSupportActionBar().hide();

}

}

* **ContactUs.xml Code:**

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

<LinearLayout 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:orientation="vertical"

android:background="@color/white"

tools:context=".ContactUs">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal"

android:background="#82CAFF"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Contect Us"

android:textSize="25dp"

android:layout\_marginTop="5dp"

android:textColor="@color/black"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:layout\_gravity="center"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center\_horizontal"

/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:inputType="textPersonName"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:id="@+id/contactus\_name"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="phone"

android:hint="Contact Number"

android:fontFamily="@font/poppins"

android:id="@+id/contactus\_number"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Message/Query"

android:inputType="textLongMessage"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:id="@+id/contactus\_message"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:background="@drawable/all\_buttons"

android:id="@+id/submit\_contactus\_btn"

android:layout\_marginRight="100dp"

android:text="SUBMIT"

android:layout\_marginTop="100dp"

/>

</LinearLayout>

</LinearLayout>

* **ConactUs.java Code:**

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

<LinearLayout 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:orientation="vertical"

android:background="@color/white"

tools:context=".ContactUs">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="60dp"

android:orientation="horizontal"

android:background="#82CAFF"

>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Contect Us"

android:textSize="25dp"

android:layout\_marginTop="5dp"

android:textColor="@color/black"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:layout\_gravity="center"

android:fontFamily="@font/poppins\_semibold"

android:gravity="center\_horizontal"

/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical"

>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:inputType="textPersonName"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:id="@+id/contactus\_name"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="phone"

android:hint="Contact Number"

android:fontFamily="@font/poppins"

android:id="@+id/contactus\_number"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Message/Query"

android:inputType="textLongMessage"

android:fontFamily="@font/poppins"

android:backgroundTint="#079BF5"

android:layout\_marginLeft="50dp"

android:layout\_marginRight="50dp"

android:id="@+id/contactus\_message"

android:textColorHint="#D3D3D3"

android:textColor="@color/black"

android:textSize="20dp"

android:layout\_marginTop="35dp"

/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_marginLeft="100dp"

android:background="@drawable/all\_buttons"

android:id="@+id/submit\_contactus\_btn"

android:layout\_marginRight="100dp"

android:text="SUBMIT"

android:layout\_marginTop="100dp"

/>

</LinearLayout>

</LinearLayout>

* **RecyclerView Code:**

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

<LinearLayout 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:orientation="vertical"

android:background="@color/white"

android:layout\_height="match\_parent"

tools:context=".ContactUsDataForDoctor">

<androidx.recyclerview.widget.RecyclerView

android:id="@+id/contactus\_recycler"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_marginLeft="20dp"

android:layout\_marginTop="20dp"

android:layout\_marginRight="20dp"

android:background="@color/white">

</androidx.recyclerview.widget.RecyclerView>

</LinearLayout>

* **DoctorDashboard.xml**

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

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:orientation="vertical"

xmlns:tools="http://schemas.android.com/tools"

android:background="@color/white"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".Doctor1Dash">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Welcome Akshay"

android:textSize="50dp"

android:textStyle="bold"

android:textColor="@color/black"

android:layout\_marginTop="50dp"

android:gravity="center"

/>

<ImageButton

android:layout\_width="250dp"

android:layout\_height="200dp"

android:id="@+id/appointment\_btn\_for\_doctor\_akshay"

android:background="@drawable/appoinment\_logo"

android:layout\_gravity="center"

android:layout\_marginTop="50dp"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Check new Appointments"

android:textColor="@color/black"

android:textSize="25dp"

android:layout\_marginTop="20dp"

/>

<ImageButton

android:layout\_width="250dp"

android:layout\_height="200dp"

android:id="@+id/contactuspage"

android:background="@drawable/appoinment\_logo"

android:layout\_gravity="center"

android:layout\_marginTop="50dp"

/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Contact Us Page"

android:textColor="@color/black"

android:textSize="25dp"

android:layout\_marginTop="20dp"

/>

</LinearLayout>

* **DoctorDashboard.java Code:**

package com.example.caredentapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.CompoundButton;

import android.widget.ImageButton;

import android.widget.TextView;

import android.widget.ToggleButton;

public class Doctor1Dash extends AppCompatActivity {

ImageButton check\_appintments,contactuspage;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_doctor1\_dash);

getSupportActionBar().hide();

check\_appintments = findViewById(R.id.appointment\_btn\_for\_doctor\_akshay);

contactuspage = findViewById(R.id.contactuspage);

contactuspage.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(Doctor1Dash.this,ContactUsDataForDoctor.class));

}

});

check\_appintments.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(Doctor1Dash.this,AllAppointmentAkshay.class));

}

});

}

}

* **AdapterClass Code:**

 package com.example.caredentapp;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.TextView;

import androidx.annotation.NonNull;

import androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;

public class PatientAdapter extends RecyclerView.Adapter<PatientAdapter.PatientHolder> {

Context context;

ArrayList<Patients\_name> list;

public PatientAdapter(Context context, ArrayList<Patients\_name> list) {

this.context = context;

this.list = list;

}

@NonNull

@Override

public PatientHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

View v = LayoutInflater.from(context).inflate(R.layout.appointment\_item,parent,false);

return new PatientHolder(v);

}

@Override

public void onBindViewHolder(@NonNull PatientHolder holder, int position) {

Patients\_name patients\_name = list.get(position);

holder.patient\_name.setText(patients\_name.getName());

holder.patient\_reason.setText(patients\_name.getReason());

holder.patient\_doctor.setText(patients\_name.getDoctor());

}

@Override

public int getItemCount() {

return list.size();

}

public static class PatientHolder extends RecyclerView.ViewHolder{

TextView patient\_name,patient\_reason,patient\_doctor;

public PatientHolder(@NonNull View itemView) {

super(itemView);

patient\_name = itemView.findViewById(R.id.disp\_name\_to\_doctor);

patient\_reason = itemView.findViewById(R.id.disp\_reason\_to\_doctor);

patient\_doctor = itemView.findViewById(R.id.disp\_doctor\_to\_doctor);

}

}

}