**Pyton project mobile app code**

**Mainactivity.java**

package com.example.housingpriceprediction;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import java.io.IOException;  
  
  
public class MainActivity extends AppCompatActivity {  
 EditText e1;  
 EditText e2;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 e1=(EditText) findViewById(R.id.*ed1*);  
 e2=(EditText) findViewById(R.id.*ed2*);  
  
  
 }  
  
 public void btclick1(View view)  
 {  
 String n=e1.getText().toString();  
 String p=e2.getText().toString();  
  
 if (n.equals("VIT") && p.equals("1234"))  
 {  
 String n1 = e1.getText().toString();  
 Intent i = new Intent(this, MainActivity2.class);  
 i.putExtra("name", n1);  
 startActivity(i);  
 }  
 else if(n.equals("") && p.equals(""))  
 {  
 Toast.makeText(getBaseContext(),"Enter user name and password both",Toast.LENGTH\_SHORT).show();  
 }  
 else  
 {  
 Toast.makeText(getBaseContext(),"Invalid user name and password",Toast.LENGTH\_SHORT).show();  
 }  
  
 }  
}

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="331dp"  
 android:layout\_height="75dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="47dp"  
 android:layout\_marginTop="35dp"  
 android:layout\_marginEnd="33dp"  
 android:layout\_marginBottom="621dp"  
 android:text="Login Here"  
 android:textAlignment="center"  
 android:textColor="@color/design\_default\_color\_secondary\_variant"  
 android:textSize="35dp"  
 tools:layout\_editor\_absoluteX="174dp"  
 tools:layout\_editor\_absoluteY="57dp" />  
  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="59dp"  
 android:layout\_below="@id/textView"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="55dp"  
 android:layout\_marginTop="368dp"  
 android:layout\_marginEnd="52dp"  
 android:layout\_marginBottom="304dp"  
 android:ems="10"  
 android:hint="Enter your password"  
 android:inputType="numberPassword"  
 android:textAlignment="center" />  
  
 <Button  
 android:id="@+id/bt1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/ed2"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="153dp"  
 android:layout\_marginTop="495dp"  
 android:layout\_marginEnd="148dp"  
 android:onClick="btclick1"  
 android:text="Login" />  
  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="293dp"  
 android:layout\_height="56dp"  
 android:layout\_below="@id/textView"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="59dp"  
 android:layout\_marginTop="226dp"  
 android:layout\_marginEnd="59dp"  
 android:layout\_marginBottom="449dp"  
 android:ems="10"  
 android:hint="Enter your name"  
 android:inputType="textPersonName"  
 android:textAlignment="center" />  
  
</RelativeLayout>

**Mainactivity2.java**

package com.example.housingpriceprediction;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.material.badge.BadgeUtils;  
  
import org.jetbrains.annotations.NotNull;  
import org.json.JSONObject;  
  
import java.io.IOException;  
  
import okhttp3.Call;  
import okhttp3.Callback;  
import okhttp3.FormBody;  
import okhttp3.OkHttpClient;  
import okhttp3.Request;  
import okhttp3.RequestBody;  
import okhttp3.Response;  
  
  
public class MainActivity2 extends AppCompatActivity {  
 EditText housing\_median\_age;  
 EditText total\_rooms;  
 EditText total\_bedrooms;  
 EditText population;  
 EditText median\_income;  
 EditText ocean\_proximity;  
 private OkHttpClient okHttpClient;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
 okHttpClient = new OkHttpClient();  
  
  
 Intent i1 = getIntent();  
  
  
  
  
 }  
  
  
 public void btclick1(View view) {  
 housing\_median\_age = findViewById(R.id.*e3*);  
 total\_rooms = findViewById(R.id.*e4*);  
 total\_bedrooms = findViewById(R.id.*e5*);  
 population = findViewById(R.id.*e6*);  
 median\_income = findViewById(R.id.*e7*);  
 ocean\_proximity = findViewById(R.id.*e8*);  
 String age = housing\_median\_age.getText().toString();  
 String rooms = total\_rooms.getText().toString();  
 String bedrooms = total\_bedrooms.getText().toString();  
 String people = population.getText().toString();  
 String income = median\_income.getText().toString();  
 String beach = ocean\_proximity.getText().toString();  
  
 RequestBody input = new FormBody.Builder().add("housing\_median\_age",age ).add("total\_rooms",rooms).add("total\_bedrooms",bedrooms).add("population",people).add("median\_income",income).add("ocean\_proximity",beach).build();  
  
 Request request = new Request.Builder().url("http://192.168.34.177:5000/").post(input).build();  
 Thread thread = new Thread(new Runnable() {  
 @Override  
 public void run() {  
 try {  
 Response response = okHttpClient.newCall(request).execute();  
 String responseBody = response.body().string();  
 runOnUiThread(new Runnable() {  
 @Override  
 public void run() {  
  
 TextView textView = findViewById(R.id.*t1*);  
 textView.setText(responseBody);  
  
 }  
 });  
  
 }  
 catch(Exception e)  
 {  
  
 }  
  
 }  
 });  
  
 thread.start();  
  
  
  
  
  
  
 }  
}

**Activity\_main2.xml**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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=".MainActivity2">  
  
 <Button  
 android:id="@+id/bt2"  
 android:layout\_width="127dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="141dp"  
 android:layout\_marginBottom="20dp"  
 android:onClick="btclick1"  
 android:text="Predict price" />  
  
 <EditText  
 android:id="@+id/e3"  
 android:layout\_width="319dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="45dp"  
 android:layout\_marginBottom="648dp"  
 android:ems="10"  
 android:hint="Age of house"  
 android:inputType="number"  
 android:textAlignment="center" />  
  
 <EditText  
 android:id="@+id/e4"  
 android:layout\_width="309dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="44dp"  
 android:layout\_marginBottom="569dp"  
 android:ems="10"  
 android:hint="Total rooms"  
 android:inputType="number"  
 android:textAlignment="center" />  
  
 <EditText  
 android:id="@+id/e5"  
 android:layout\_width="306dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="50dp"  
 android:layout\_marginBottom="494dp"  
 android:ems="10"  
 android:hint="Total bedrooms"  
 android:inputType="number"  
 android:textAlignment="center" />  
  
 <EditText  
 android:id="@+id/e6"  
 android:layout\_width="295dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="60dp"  
 android:layout\_marginBottom="413dp"  
 android:ems="10"  
 android:hint="No. of people"  
 android:inputType="number"  
 android:textAlignment="center" />  
  
 <EditText  
 android:id="@+id/e7"  
 android:layout\_width="293dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="63dp"  
 android:layout\_marginBottom="335dp"  
 android:ems="10"  
 android:hint="Median income"  
 android:inputType="numberDecimal"  
 android:textAlignment="center" />  
  
 <EditText  
 android:id="@+id/e8"  
 android:layout\_width="300dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="48dp"  
 android:layout\_marginBottom="200dp"  
 android:ems="10"  
 android:hint="Please enter in capital letters"  
 android:inputType="textPersonName"  
 android:textAlignment="center" />  
  
 <TextView  
 android:id="@+id/t1"  
 android:layout\_width="280dp"  
 android:layout\_height="39dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="64dp"  
 android:layout\_marginBottom="107dp"  
 android:textAlignment="center" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="311dp"  
 android:layout\_height="48dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="51dp"  
 android:layout\_marginBottom="261dp"  
 android:text="Options are: INLAND, ISLAND, NEAR BAY, NEAR OCEAN, 1H OCEAN"  
 android:textAlignment="center" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="283dp"  
 android:layout\_height="31dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="59dp"  
 android:layout\_marginBottom="158dp"  
 android:text="The predicted price is Rs. "  
 android:textAlignment="center" />  
  
</RelativeLayout>

**Build.gradle(app)**

plugins **{** id 'com.android.application'  
**}**android **{** compileSdk 32  
  
 defaultConfig **{** applicationId "com.example.housingpriceprediction"  
 minSdk 21  
 targetSdk 32  
 versionCode 1  
 versionName "1.0"  
  
 testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"  
 **}** buildTypes **{** release **{** minifyEnabled false  
 proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'  
 **}  
 }** compileOptions **{** sourceCompatibility JavaVersion.*VERSION\_1\_8* targetCompatibility JavaVersion.*VERSION\_1\_8* **}  
}**dependencies **{** implementation 'androidx.appcompat:appcompat:1.4.1'  
 implementation 'com.google.android.material:material:1.5.0'  
 implementation 'androidx.constraintlayout:constraintlayout:2.1.3'  
 testImplementation 'junit:junit:4.+'  
 androidTestImplementation 'androidx.test.ext:junit:1.1.3'  
 androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'  
 implementation("com.squareup.okhttp3:okhttp:4.9.0")  
**}**

**Androidmainyfest.xml**

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.housingpriceprediction">  
  
 <uses-permission android:name="android.permission.INTERNET" />  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.HousingPricePrediction"  
 android:usesCleartextTraffic="true">  
 <activity  
 android:name=".MainActivity2"  
 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>