**Build.gradle(Module:app)**

apply **plugin**: **'com.android.application'**android {  
 compileSdkVersion 27  
 defaultConfig {  
 applicationId **"net.systemskills.com.newapp"** minSdkVersion 14  
 targetSdkVersion 27  
 versionCode 1  
 versionName **"1.0"** testInstrumentationRunner **"android.support.test.runner.AndroidJUnitRunner"** }  
 buildTypes {  
 release {  
 minifyEnabled **false** proguardFiles getDefaultProguardFile(**'proguard-android.txt'**), **'proguard-rules.pro'** }  
 }  
}  
  
dependencies {  
 implementation fileTree(dir: **'libs'**, include: [**'\*.jar'**])  
 implementation **'com.android.support:appcompat-v7:27.1.1'** implementation **'com.android.support.constraint:constraint-layout:1.1.2'** implementation **'com.google.firebase:firebase-database:11.0.4'** testImplementation **'junit:junit:4.12'** androidTestImplementation **'com.android.support.test:runner:1.0.2'** androidTestImplementation **'com.android.support.test.espresso:espresso-core:3.0.2'**}  
  
  
  
apply plugin: **'com.google.gms.google-services'**

**activity\_main.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:gravity="center"  
 android:orientation="vertical"  
 tools:context="net.systemskills.com.newapp.MainActivity"**>  
  
  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 app:srcCompat="@drawable/bin"** />  
 <**TextView  
 android:id="@+id/text"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:layout\_marginTop="30dp"  
 android:textSize="30dp"  
 android:text="User Login"  
 android:textColor="#8c14cd"**/>  
 <**EditText  
 android:id="@+id/editTextUsername"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:inputType="textPersonName"  
 android:hint="UserName"  
 android:textColorHint="#8c14cd"**/>  
 <**EditText  
 android:id="@+id/editTextPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="30dp"  
 android:inputType="textPassword"  
 android:hint="@string/password"  
 android:textColorHint="#8c14cd"**/>  
 <**Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/login"  
 android:background="#afeeee"  
 android:textSize="20dp"  
 android:layout\_marginTop="30dp"**/>  
  
</**LinearLayout**>

**activity\_area\_info.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"  
 tools:context="net.systemskills.com.newapp.AreaInfoActivity"**>  
  
  
 <**ListView  
 android:id="@+id/lvUserList"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**></**ListView**>  
</**LinearLayout**>

**area.xml**

<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical"**>  
  
 <**Button  
 android:id="@+id/btn1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Area-A"  
 android:background="#9370db"  
 android:textSize="30dp"  
 android:layout\_marginTop="30dp"**/>  
 <**Button  
 android:id="@+id/btn2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Area-B"  
 android:background="#9370db"  
 android:textSize="30dp"  
 android:layout\_marginTop="30dp"**/>  
 <**Button  
 android:id="@+id/btn3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Area-C"  
 android:background="#9370db"  
 android:textSize="30dp"  
 android:layout\_marginTop="30dp"**/>  
  
</**LinearLayout**>

**info.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:padding="15dp"**>  
  
  
 <**TextView  
 android:id="@+id/tvDate"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Date"  
 android:textSize="20sp"  
 android:typeface="monospace"**/>  
  
 <**TextView  
 android:id="@+id/tvMessage"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Message"  
 android:textSize="20sp"  
 android:typeface="monospace"**/>  
  
</**LinearLayout**>

**Strings.xml**

<**resources**>  
 <**string name="app\_name"**>CLEAN CITY</**string**>  
 <**string name="USN"**>enter Username</**string**>  
 <**string name="Pwd"**>enter Password</**string**>  
 <**string name="btn"**>login</**string**>  
 <**string name="password"**>Password</**string**>  
 <**string name="login"**>Login</**string**>  
 <**string name="textview"**>textview</**string**>  
  
</**resources**>

**MainActivity.java**

**import** android.content.Intent;  
**import** android.provider.ContactsContract;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ListView;  
**import** android.widget.Toast;  
  
**import** net.systemskills.com.newapp.model.Users;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener{  
  
 EditText **etUsn**, **etPwd**;  
 Button **btnLogin**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **etUsn**=findViewById(R.id.***editTextUsername***);  
 **etPwd**=findViewById(R.id.***editTextUsername***);  
 **btnLogin**=findViewById(R.id.***btn***);  
 **btnLogin**.setOnClickListener(**this**);  
  
 }  
 @Override  
 **public void** onClick(View view){  
 String Usn=**etUsn**.getText().toString();  
 String Pwd=**etPwd**.getText().toString();  
 **if** (Usn.equals(Pwd)){  
 Toast.*makeText*(getApplicationContext(), **"Login Successful"**, Toast.***LENGTH\_LONG***).show();  
 Intent intent=**new** Intent(MainActivity.**this**, SecondActivity.**class**);  
 startActivity(intent);  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(), **"Access Denied"**, Toast.***LENGTH\_LONG***).show();  
 }  
 **etUsn**.setText(**null**);  
 **etPwd**.setText(**null**);  
 }  
}

**SecondActivity.java**

**package** net.systemskills.com.newapp;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.util.Log;  
**import** android.view.View;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Button;  
**import** android.widget.ListAdapter;  
**import** android.widget.ListView;  
**import** android.widget.Toast;  
  
**import** com.google.firebase.database.ChildEventListener;  
**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** net.systemskills.com.newapp.model.Users;  
  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
*/\*\*  
 \* Created by USER on 7/7/2018.  
 \*/***public class** SecondActivity **extends** AppCompatActivity {  
 Button **area1**;  
  
  
  
  
  
  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***area***);  
 **area1** = findViewById(R.id.***btn1***);  
  
 **area1**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 startActivity(**new** Intent(SecondActivity.**this**,AreaInfoActivity.**class**));  
 }  
 });

**AreaInfoActivity.java**

**package** net.systemskills.com.newapp;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.ListView;  
  
**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** net.systemskills.com.newapp.model.Users;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**public class** AreaInfoActivity **extends** AppCompatActivity {  
  
 FirebaseDatabase **database**;  
 DatabaseReference **reference**;  
  
 ListView **listView**;  
 List<Users> **userlist**;  
  
@Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_area\_info***);  
 Intent intent=getIntent();  
 **listView** = findViewById(R.id.***lvUserList***);  
  
 **database** = FirebaseDatabase.*getInstance*();  
 **reference** = **database**.getReference(**"users"**);  
 **userlist**=**new** ArrayList<>();  
  
  
 }  
  
 @Override  
 **protected void** onStart() {  
 **super**.onStart();  
  
 **reference**.addValueEventListener(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(DataSnapshot dataSnapshot) {**for**(DataSnapshot artist:dataSnapshot.getChildren()) {  
 Users user = artist.getValue(Users.**class**);  
 **userlist**.add(user);  
 }  
 UserListAdapter adapter = **new** UserListAdapter(AreaInfoActivity.**this**, **userlist**);  
 **listView**.setAdapter(adapter);  
 }  
@Override  
 **public void** onCancelled(DatabaseError databaseError) {  
  
 }  
 });  
 }  
}

**UserListAdapter.java**

**package** net.systemskills.com.newapp;  
  
**import** android.app.Activity;  
**import** android.content.Context;  
**import** android.support.annotation.NonNull;  
**import** android.support.annotation.Nullable;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.TextView;  
  
**import** net.systemskills.com.newapp.model.Users;  
  
**import** java.util.List;  
  
*/\*\*  
 \* Created by USER on 7/9/2018.  
 \*/***public class** UserListAdapter **extends** ArrayAdapter {  
  
 Activity **context**;  
 List<Users> **userList**;  
  
 **public** UserListAdapter(@NonNull Activity context, List<Users> userList) {  
 **super**(context,R.layout.***info***,userList);  
 **this**.**context** = context;  
 **this**.**userList** = userList;  
 }  
  
 @NonNull  
 @Override  
 **public** View getView(**int** position, @Nullable View convertView, @NonNull ViewGroup parent) {  
  
*// convertView = LayoutInflater.from(context).inflate(R.layout.info,parent,true);* LayoutInflater inflater=**context**.getLayoutInflater();  
 convertView=inflater.inflate(R.layout.***info***,parent,**false**);  
  
  
 TextView date = convertView.findViewById(R.id.***tvDate***);  
 TextView msg = convertView.findViewById(R.id.***tvMessage***);  
  
 **final** Users usr = (Users) **this**.getItem(position);  
 date.setText(usr.getDate());  
 msg.setText(usr.getMsg());  
  
 **return** convertView;  
 }  
}

**Users.java**  
**package** net.systemskills.com.newapp.model;  
  
*/\*\*  
 \* Created by USER on 7/7/2018.  
 \*/***public class** Users {  
 **private** String **date**,**msg**;  
  
 **public** Users(){  
  
 }  
 **public** Users(String date, String msg){  
 **this**.**date**= date;  
 **this**.**msg** = msg;  
 }  
 **public void** setDate(String date) {**this**.**date** = date;}  
 **public void** setMsg(String msg) {**this**.**msg** = msg;}  
  
 **public** String getMsg(){  
  
 **return msg**;  
 }  
  
  
 **public** String getDate() {  
 **return date**;  
 }  
}