**SUPERIOR UNIVERSITY LAHORE**

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**Faculty of Computer Science & IT**

**Assignment #04**

**Project Team**

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| --- | --- | --- | --- | --- |
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Subject: Mobile Application & Development

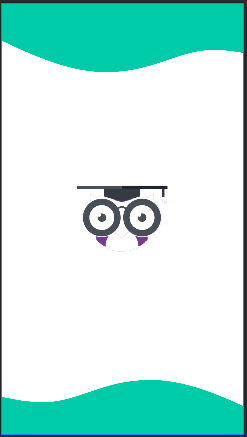
Instructor: **Mr. Jawad Ahmad**

Department:CS

**Splash Screen Main\_activity.xml Code:**

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"  
 android:orientation="vertical"  
 android:background="@drawable/background\_quiz">  
  
  
 <ImageView  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 android:layout\_centerHorizontal="true"  
 android:background="@drawable/logo"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Splash Screen OutPut:**



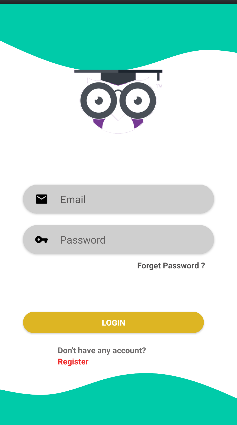
**Splash Screen Main\_activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.content.Intent;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Thread background = new Thread() {  
 public void run() {  
 try {  
 // Thread will sleep for 5 seconds  
 *sleep*(5\*1000);  
  
 // After 5 seconds redirect to another intent  
 Intent i=new Intent(MainActivity.this,login.class);  
 startActivity(i);  
  
 //Remove activity  
 finish();  
 } catch (Exception e) {  
 }  
 }  
 };  
 // start thread  
 background.start();  
 }  
}

**Login activity.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:background="@drawable/background\_quiz"  
 android:orientation="vertical"  
 android:weightSum="3"  
 tools:context=".login">  
  
  
 <RelativeLayout  
  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1.1"  
 >  
  
 <ImageView  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="70dp"  
 android:src="@drawable/logo" />  
 </RelativeLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="0.8"  
 android:background="@color/white"  
 android:orientation="vertical">  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="45dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="60dp">  
  
 <EditText  
 android:id="@+id/edt\_email"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableStart="@drawable/ic\_email"  
 android:drawablePadding="20dp"  
 android:hint="Email"  
 android:paddingStart="20dp"  
 android:textColorHint="#535151" />  
  
  
 </androidx.cardview.widget.CardView>  
  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="60dp">  
  
 <EditText  
 android:id="@+id/edt\_pass"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableStart="@drawable/ic\_key"  
 android:drawablePadding="20dp"  
 android:hint="Password"  
 android:paddingStart="20dp"  
 android:textColorHint="#636161" />  
  
 </androidx.cardview.widget.CardView>  
  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="238dp"  
 android:layout\_marginLeft="238dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="16dp"  
 android:layout\_marginRight="40dp"  
 android:text="Forget Password ?"  
 android:textColor="#515050"  
 android:textStyle="bold">  
  
 </TextView>  
  
 </RelativeLayout>  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1.1"  
 android:orientation="vertical">  
  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/btn\_login"  
 android:layout\_width="314dp"  
 android:layout\_height="37dp"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="70dp"  
 android:layout\_marginRight="40dp"  
 android:background="@drawable/btn\_background"  
 android:text="Login"  
 android:textColor="@color/white"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:paddingTop="10dp"  
 android:layout\_marginTop="10dp"  
 />  
  
 <TextView  
 android:id="@+id/text1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="0dp"  
  
 android:text="Don't have any account? "  
 android:textColor="#6C6A6A"  
android:layout\_marginLeft="100dp"  
 android:textStyle="bold" />  
  
  
  
  
  
  
 <TextView  
 android:id="@+id/resgisterBtn"  
 android:layout\_width="163dp"  
 android:layout\_height="wrap\_content"  
 android:text="Register"  
 android:layout\_marginLeft="100dp"  
 android:textColor="#EF2B2B"  
 android:textStyle="bold"  
 />  
  
 </LinearLayout>  
  
</LinearLayout>

**Login OutPut:**



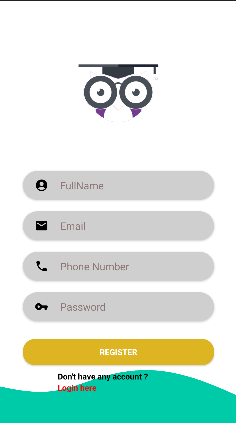
**Login activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import org.w3c.dom.Text;  
  
  
  
  
  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
  
public class login extends AppCompatActivity {  
  
 EditText edt\_email;  
 EditText edt\_pass;  
 TextView resgisterBtn;  
 Button btnLogin;  
  
 FirebaseAuth mAuth;  
  
 @SuppressLint("WrongViewCast")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_login);  
  
 edt\_email = findViewById(R.id.edt\_email);  
 edt\_pass = findViewById(R.id.edt\_pass);  
 resgisterBtn = findViewById(R.id.resgisterBtn);  
 btnLogin = findViewById(R.id.btn\_login);  
  
 mAuth = FirebaseAuth.getInstance();  
  
 btnLogin.setOnClickListener(view -> {  
 loginUser();  
 });  
 resgisterBtn.setOnClickListener(view ->{  
 startActivity(new Intent(login.this, signup.class));  
 });  
 }  
  
 private void loginUser(){  
 String email = edt\_email.getText().toString();  
 String password = edt\_pass.getText().toString();  
  
 if (TextUtils.*isEmpty*(email)){  
 edt\_email.setError("Email cannot be empty");  
 edt\_email.requestFocus();  
 }else if (TextUtils.*isEmpty*(password)){  
 edt\_pass.setError("Password cannot be empty");  
 edt\_pass.requestFocus();  
 }else{  
 mAuth.signInWithEmailAndPassword(email,password).addOnCompleteListener(new OnCompleteListener<AuthResult>() {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(login.this, "User logged in successfully", Toast.*LENGTH\_SHORT*).show();  
 startActivity(new Intent(login.this, dashboard.class));  
 }else{  
 Toast.*makeText*(login.this, "Log in Error: " + task.getException().getMessage(), Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
 }  
  
}

**Signup activity.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:background="@drawable/background\_quiz"  
 android:orientation="vertical"  
 android:weightSum="3"  
 tools:context=".signup">  
  
  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="0dp"  
 android:layout\_weight="1.1"  
 android:background="@color/white">  
  
  
 <ImageView  
 android:layout\_width="200dp"  
 android:layout\_height="200dp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="70dp"  
 android:src="@drawable/logo" />  
  
  
 </RelativeLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="40dp"  
 android:layout\_weight="1.3"  
 android:background="@color/white"  
 android:orientation="vertical">  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="45dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="25dp">  
  
 <EditText  
 android:id="@+id/edt\_Rname"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableStart="@drawable/ic\_account"  
 android:drawablePadding="20dp"  
 android:hint="FullName"  
 android:paddingStart="20dp"  
 android:paddingEnd="10dp"  
 android:textColorHint="#8F7777"  
 tools:ignore="RtlSymmetry" />  
  
  
 </androidx.cardview.widget.CardView>  
  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="25dp">  
  
 <EditText  
 android:id="@+id/edt\_email1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableLeft="@drawable/ic\_email"  
 android:drawablePadding="20dp"  
 android:hint="Email"  
 android:nextFocusDown="@id/edt\_RPNumber"  
 android:paddingStart="20dp"  
 android:textColorHint="#8F7777" />  
  
 </androidx.cardview.widget.CardView>  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="25dp">  
  
 <EditText  
 android:id="@+id/edt\_RPNumber"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableLeft="@drawable/ic\_phone"  
 android:drawablePadding="20dp"  
 android:hint="Phone Number"  
 android:paddingStart="20dp"  
 android:textColorHint="#8F7777" />  
  
 </androidx.cardview.widget.CardView>  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="40dp"  
 android:elevation="3dp"  
 app:cardCornerRadius="25dp">  
  
 <EditText  
 android:id="@+id/edt\_pass1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:background="@drawable/shape4"  
 android:drawableLeft="@drawable/ic\_key"  
 android:drawablePadding="20dp"  
 android:hint="Password"  
 android:textColor="@color/black"  
 android:inputType="numberPassword"  
 android:paddingStart="20dp"  
 android:textColorHint="#8F7777" />  
  
 </androidx.cardview.widget.CardView>  
  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="10dp"  
 android:layout\_weight="0.6"  
 android:orientation="vertical">  
  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/resgister1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="45dp"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="1.1dp"  
 android:layout\_marginRight="40dp"  
 android:layout\_marginBottom="10dp"  
 android:background="@drawable/btn\_background"  
 android:text="Register"  
 android:textColor="@color/white"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 />  
  
 <TextView  
 android:id="@+id/text1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/black"  
 android:text="Don't have any account ?"  
 android:textStyle="bold"  
 android:layout\_marginLeft="100dp"/>  
  
  
 <TextView  
 android:id="@+id/login\_here"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_toRightOf="@+id/text1"  
 android:text="Login here"  
  
 android:textStyle="bold"  
 android:textColor="#FD0000"  
 android:layout\_marginLeft="100dp"/>  
  
  
 </LinearLayout>  
  
  
</LinearLayout>

**Signup OutPut:**



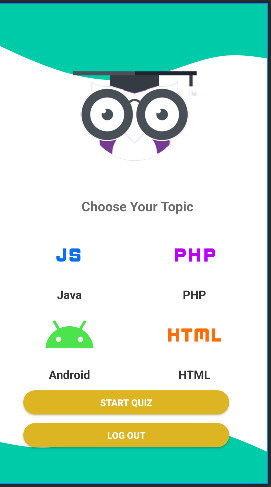
**Signup activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
  
public class signup extends AppCompatActivity {  
  
 EditText edt\_email1;  
 EditText edt\_pass1;  
 TextView login\_here;  
 Button resgister1;  
  
 FirebaseAuth mAuth;  
  
 @SuppressLint({"MissingInflatedId", "WrongViewCast"})  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_signup*);  
  
 edt\_email1 = findViewById(R.id.*edt\_email1*);  
 edt\_pass1 = findViewById(R.id.*edt\_pass1*);  
 login\_here = findViewById(R.id.*login\_here*);  
 resgister1 = findViewById(R.id.*resgister1*);  
  
 mAuth = FirebaseAuth.*getInstance*();  
  
 resgister1.setOnClickListener(view ->{  
 createUser();  
 });  
  
 login\_here.setOnClickListener(view ->{  
 startActivity(new Intent(signup.this, login.class));  
 });  
 }  
  
 private void createUser(){  
 String email = edt\_email1.getText().toString();  
 String password = edt\_pass1.getText().toString();  
  
 if (TextUtils.*isEmpty*(email)){  
 edt\_email1.setError("Email cannot be empty");  
 edt\_email1.requestFocus();  
 }else if (TextUtils.*isEmpty*(password)){  
 edt\_pass1.setError("Password cannot be empty");  
 edt\_pass1.requestFocus();  
 }else{  
 mAuth.createUserWithEmailAndPassword(email,password).addOnCompleteListener(new OnCompleteListener<AuthResult>() {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(signup.this, "User registered successfully", Toast.*LENGTH\_SHORT*).show();  
 startActivity(new Intent(signup.this, login.class));  
 }else{  
 Toast.*makeText*(signup.this, "Registration Error: " + task.getException().getMessage(), Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
 }  
  
}

**Dashboard activity.xml Code:**

<?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=".dashboard"  
 android:background="@drawable/background\_quiz"  
 android:orientation="vertical">  
  
  
 <ImageView  
 android:id="@+id/quizzicon"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="244dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_marginStart="66dp"  
 android:layout\_marginLeft="66dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="57dp"  
 android:layout\_marginRight="57dp"  
 android:adjustViewBounds="true"  
 android:src="@drawable/logo" />  
  
 <TextView  
 android:id="@+id/choose\_topic"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="38dp"  
 android:layout\_below="@+id/quizzicon"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_marginStart="30dp"  
 android:layout\_marginTop="2dp"  
 android:layout\_marginEnd="112dp"  
 android:layout\_marginRight="112dp"  
 android:text="Choose Your Topic"  
 android:textColor="#99090909"  
 android:textSize="20dp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:id="@+id/layout1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_below="@+id/choose\_topic"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginEnd="20dp"  
 android:weightSum="2"  
 >  
 <LinearLayout  
 android:id="@+id/javaLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:layout\_marginEnd="5dp"  
 android:orientation="vertical"  
 >  
  
  
 <ImageView  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:src="@drawable/ic\_javascript"  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="Java"  
 android:textColor="#CC000000"  
 android:textSize="18sp"  
 android:textStyle="bold"  
  
  
 />  
  
  
 </LinearLayout>  
 <LinearLayout  
 android:id="@+id/phpLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:layout\_marginStart="5dp"  
 android:orientation="vertical"  
 >  
  
  
 <ImageView  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:src="@drawable/ic\_php"  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="PHP"  
 android:textColor="#CC000000"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
 </LinearLayout>  
 </LinearLayout>  
  
 <LinearLayout  
 android:id="@+id/layout2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:layout\_below="@+id/layout1"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginEnd="20dp"  
 android:weightSum="2"  
 >  
 <LinearLayout  
 android:id="@+id/androidLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:layout\_marginEnd="5dp"  
 android:orientation="vertical"  
 >  
  
  
 <ImageView  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:src="@drawable/ic\_android"  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="Android"  
 android:textColor="#CC000000"  
 android:textSize="18sp"  
 android:textStyle="bold"  
  
  
 />  
  
  
 </LinearLayout>  
 <LinearLayout  
 android:id="@+id/htmlLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:layout\_marginStart="5dp"  
 android:orientation="vertical"  
 >  
  
  
 <ImageView  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 android:src="@drawable/ic\_html"  
 />  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="8dp"  
 android:text="HTML"  
 android:textColor="#CC000000"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
 </LinearLayout>  
 </LinearLayout>  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/startQuizBtn"  
 android:layout\_width="314dp"  
 android:layout\_height="37dp"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="590dp"  
 android:layout\_marginRight="40dp"  
 android:background="@drawable/btn\_background"  
 android:text="Start Quiz"  
 android:textColor="@color/white"  
 android:textStyle="bold" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/logOut1"  
 android:layout\_width="314dp"  
 android:layout\_height="37dp"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="640dp"  
 android:layout\_marginRight="40dp"  
 android:background="@drawable/btn\_background"  
 android:text="Log Out"  
 android:textColor="@color/white"  
 android:textStyle="bold" />  
  
  
</RelativeLayout>

**Dashboard OutPut:**



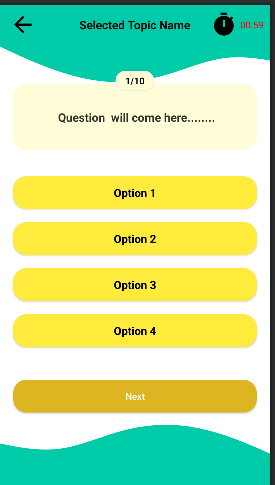
**Dashboard activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.text.TextUtils;  
import android.widget.Button;  
import android.widget.LinearLayout;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.textfield.TextInputEditText;  
import com.google.firebase.auth.AuthResult;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.LinearLayout;  
import android.widget.Toast;  
  
  
public class dashboard extends AppCompatActivity {  
  
  
 Button logout1;  
 FirebaseAuth mAuth;  
  
 @SuppressLint("MissingInflatedId")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_dashboard*);  
  
 final LinearLayout java = findViewById(R.id.*javaLayout*);  
 final LinearLayout php = findViewById(R.id.*phpLayout*);  
 final LinearLayout html = findViewById(R.id.*htmlLayout*);  
 final LinearLayout android = findViewById(R.id.*androidLayout*);  
  
 final Button startBtn = findViewById(R.id.*startQuizBtn*);  
  
 logout1=(Button)findViewById(R.id.*logOut1*) ;  
 mAuth = FirebaseAuth.*getInstance*();  
  
 logout1.setOnClickListener(view ->{  
 mAuth.signOut();  
 startActivity(new Intent(dashboard.this, login.class));  
 });  
  
 java.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 selectedTopicName = "java";  
 java.setBackgroundResource(R.drawable.*round\_back\_white\_stroke10*);  
  
 php.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 html.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 android.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 }  
 });  
  
  
 php.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 selectedTopicName = "php";  
 php.setBackgroundResource(R.drawable.*round\_back\_white\_stroke10*);  
  
 java.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 html.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 android.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 }  
 });  
  
 html.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 selectedTopicName = "html";  
 html.setBackgroundResource(R.drawable.*round\_back\_white\_stroke10*);  
  
 php.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 java.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 android.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 }  
 });  
  
  
 android.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 selectedTopicName = "android";  
 android.setBackgroundResource(R.drawable.*round\_back\_white\_stroke10*);  
  
 php.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 java.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 html.setBackgroundResource(R.drawable.*round\_back\_white10*);  
 }  
 });  
  
 startBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 if(selectedTopicName.isEmpty()){  
 Toast.*makeText*(dashboard.this , "Please Selected The Topic" , Toast.*LENGTH\_SHORT*).show();  
 }  
 else{  
 Intent = new Intent(dashboard.this, Quiz\_Activity.class);  
 intent.putExtra("selectedtopic" , selectedTopicName);  
 startActivity(intent);  
 }  
 }  
 });  
 }  
  
 @Override  
 protected void onStart() {  
 super.onStart();  
 FirebaseUser user = mAuth.getCurrentUser();  
 if (user == null){  
 startActivity(new Intent(dashboard.this, login.class));  
 }  
 }  
  
  
 private String selectedTopicName= "";  
  
  
}

**Quiz activity.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:background="@drawable/background\_quiz"  
 tools:context=".Quiz\_Activity"  
 android:orientation="vertical">  
  
 <RelativeLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="60dp"  
 >  
  
 <ImageView  
 android:id="@+id/backbtn"  
 android:layout\_width="20dp"  
 android:layout\_height="20dp"  
 android:layout\_centerVertical="true"  
 android:layout\_marginLeft="15dp"  
 android:layout\_marginStart="15dp"  
 android:src="@drawable/shape2"  
 />  
  
 <TextView  
 android:id="@+id/topicName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:text="Selected Topic Name"  
 android:textColor="#0B0A0A"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginEnd="10dp"  
 android:gravity="center"  
 android:orientation="horizontal">  
  
 <ImageView  
  
 android:layout\_width="20dp"  
 android:layout\_height="20dp"  
 android:layout\_marginStart="15dp"  
 android:src="@drawable/shape2" />  
  
 <TextView  
 android:id="@+id/timer"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="5dp"  
 android:text="00:59"  
 android:textColor="#070707" />  
 </LinearLayout>  
 </RelativeLayout>  
  
 <TextView  
 android:id="@+id/questions"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="30dp"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="40dp"  
 android:background="@drawable/shape2"  
 android:elevation="1dp"  
 android:gravity="center"  
 android:paddingStart="15dp"  
 android:paddingEnd="15dp"  
 android:text="1/10"  
 android:textColor="#1F6BB8" />  
  
 <TextView  
 android:id="@+id/question"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="-10dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@drawable/shape2"  
 android:gravity="center"  
 android:minHeight="100dp"  
 android:padding="20dp"  
 android:text=" Question will come here........"  
 android:textColor="#CC000000"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/option1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="40dp"  
 android:text="Option 1"  
 android:background="@drawable/shape3"  
 android:textAllCaps="false"  
 android:textColor="#1F6BB8"  
 android:layout\_marginEnd="20dp" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/option2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="20dp"  
 android:text="Option 2"  
 android:background="@drawable/shape3"  
 android:textAllCaps="false"  
 android:textColor="#1F6BB8"  
 android:layout\_marginEnd="20dp" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/option3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@drawable/shape3"  
 android:text="Option 3"  
 android:textAllCaps="false"  
 android:textColor="#1F6BB8" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/option4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="20dp"  
 android:text="Option 4"  
 android:background="@drawable/shape3"  
 android:textAllCaps="false"  
 android:textColor="#1F6BB8"  
 android:layout\_marginEnd="20dp" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/nextBtn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="20dp"  
 android:background="@drawable/btn\_background"  
 android:text="Next"  
 android:textAllCaps="false"  
 android:textColor="#FFFFFF" />  
  
  
</LinearLayout>

**OutPut:**

****

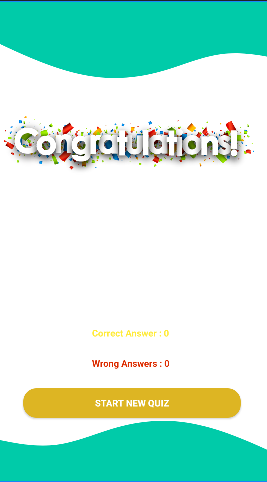
**Quiz activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.AppCompatButton;  
  
import android.content.Intent;  
import android.graphics.Color;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import java.util.ArrayList;  
import java.util.List;  
import java.util.Timer;  
import java.util.TimerTask;  
  
public class Quiz\_Activity extends AppCompatActivity {  
  
  
 private TextView questions;  
 private TextView question;  
 private AppCompatButton option1, option2, option3, option4;  
 private AppCompatButton nextBtn;  
  
 private Timer quizTimer;  
  
 private int totalTimeInMins = 1;  
 private int seconds = 0;  
  
 private List<QuestionsList> questionsLists ;  
  
 private int currentQuestionPosition = 0;  
  
 private String selectedOptionByUser = "";  
  
  
  
 @SuppressLint("SetTextI18n")  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_quiz*);  
  
 final ImageView backBtn = findViewById(R.id.*backbtn*);  
 final TextView timer = findViewById(R.id.*timer*);  
 final TextView selectedTopicName = findViewById(R.id.*topicName*);  
  
 questions = findViewById(R.id.*questions*);  
 question= findViewById(R.id.*question*);  
  
 option1 = findViewById(R.id.*option1*);  
 option2 = findViewById(R.id.*option2*);  
 option3 = findViewById(R.id.*option3*);  
 option4 = findViewById(R.id.*option4*);  
  
 nextBtn = findViewById(R.id.*nextBtn*);  
  
 final String getSelectedTopicName = getIntent().getStringExtra("selectedtopic");  
  
 selectedTopicName.setText(getSelectedTopicName);  
 questionsLists = QuestionsBank.*getQuestions*(getSelectedTopicName);  
  
  
 startTimer(timer);  
 questions.setText((currentQuestionPosition+1)+"/"+questionsLists.size());  
 question.setText(questionsLists.get(0).getQuestion());  
 option1.setText(questionsLists.get(0).getOption1());  
 option2.setText(questionsLists.get(0).getOption2());  
 option3.setText(questionsLists.get(0).getOption3());  
 option4.setText(questionsLists.get(0).getOption4());  
  
 option1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 if(selectedOptionByUser.isEmpty()){  
  
 selectedOptionByUser = option1.getText().toString();  
  
 option1.setBackgroundResource(R.drawable.*round\_back\_red10*);  
 option1.setTextColor(Color.*WHITE*);  
  
 revealAnswer();  
 questionsLists.get(currentQuestionPosition).setUserSelectedAnswer(selectedOptionByUser);  
 }  
 }  
 });  
  
 option2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(selectedOptionByUser.isEmpty()){  
  
 selectedOptionByUser = option2.getText().toString();  
  
 option2.setBackgroundResource(R.drawable.*round\_back\_red10*);  
 option2.setTextColor(Color.*WHITE*);  
  
 revealAnswer();  
 questionsLists.get(currentQuestionPosition).setUserSelectedAnswer(selectedOptionByUser);  
 }  
 }  
 });  
  
 option3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(selectedOptionByUser.isEmpty()){  
  
 selectedOptionByUser = option3.getText().toString();  
  
 option3.setBackgroundResource(R.drawable.*round\_back\_red10*);  
 option3.setTextColor(Color.*WHITE*);  
  
 revealAnswer();  
 questionsLists.get(currentQuestionPosition).setUserSelectedAnswer(selectedOptionByUser);  
 }  
 }  
 });  
  
 option4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(selectedOptionByUser.isEmpty()){  
  
 selectedOptionByUser = option4.getText().toString();  
  
 option4.setBackgroundResource(R.drawable.*round\_back\_red10*);  
 option4.setTextColor(Color.*WHITE*);  
  
 revealAnswer();  
 questionsLists.get(currentQuestionPosition).setUserSelectedAnswer(selectedOptionByUser);  
 }  
 }  
 });  
  
 nextBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(selectedOptionByUser.isEmpty())  
 {  
 Toast.*makeText*(Quiz\_Activity.this,"Please Select The Option",Toast.*LENGTH\_SHORT* ).show();  
 }  
 else{  
 changeNextQuestion();  
 selectedOptionByUser = "";  
 }  
 }  
 });  
  
 backBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 quizTimer.purge();  
 quizTimer.cancel();  
  
 startActivity(new Intent(Quiz\_Activity.this, dashboard.class));  
 finish();  
 }  
 });  
  
 }  
  
 private void changeNextQuestion(){  
 currentQuestionPosition++;  
  
 if((currentQuestionPosition+1) == questionsLists.size())  
 {  
 nextBtn.setText("Submit Quiz");  
 }  
  
 if(currentQuestionPosition < questionsLists.size())  
 {  
 selectedOptionByUser = " ";  
 option1.setBackgroundResource(R.drawable.*round\_back\_white\_stroke2\_10*);  
 option1.setTextColor(Color.*parseColor*("#1f6bb8"));  
  
 option2.setBackgroundResource(R.drawable.*round\_back\_white\_stroke2\_10*);  
 option2.setTextColor(Color.*parseColor*("#1f6bb8"));  
  
 option3.setBackgroundResource(R.drawable.*round\_back\_white\_stroke2\_10*);  
 option3.setTextColor(Color.*parseColor*("#1f6bb8"));  
  
 option4.setBackgroundResource(R.drawable.*round\_back\_white\_stroke2\_10*);  
 option4.setTextColor(Color.*parseColor*("#1f6bb8"));  
  
 questions.setText((currentQuestionPosition+1)+"/"+questionsLists.size());  
 question.setText(questionsLists.get(currentQuestionPosition).getQuestion());  
 option1.setText(questionsLists.get(currentQuestionPosition).getOption1());  
 option2.setText(questionsLists.get(currentQuestionPosition).getOption2());  
 option3.setText(questionsLists.get(currentQuestionPosition).getOption3());  
 option4.setText(questionsLists.get(currentQuestionPosition).getOption4());  
 }  
 else{  
 Intent intent = new Intent( Quiz\_Activity.this,QuizResult.class);  
 intent.putExtra("Correct",getCorrectAnswers());  
 intent.putExtra("Incorrect",getInCorrectAnswers());  
 startActivity(intent);  
  
 finish();  
 }  
 }  
  
 private void startTimer( TextView timerTextView)  
 {  
 quizTimer = new Timer();  
  
 quizTimer.scheduleAtFixedRate(new TimerTask() {  
 @Override  
 public void run() {  
 if (seconds == 0) {  
 totalTimeInMins--;  
 seconds = 59;  
 } else if (seconds == 0 && totalTimeInMins == 0) {  
 quizTimer.purge();  
 quizTimer.cancel();  
  
 Toast.*makeText*(Quiz\_Activity.this, "Time out ", Toast.*LENGTH\_SHORT*).show();  
  
  
  
 Intent intent = new Intent(Quiz\_Activity.this, QuizResult.class);  
 intent.putExtra("Correct", getCorrectAnswers());  
 intent.putExtra("Incorrect", getInCorrectAnswers());  
 startActivity(intent);  
  
 finish();  
 }  
 else {  
 seconds--;  
 }  
  
 runOnUiThread(new Runnable() {  
 @Override  
 public void run() {  
  
 String finalMinutes = String.*valueOf*(totalTimeInMins);  
 String finalSeconds = String.*valueOf*(seconds);  
  
  
 if(finalMinutes.length() == 1)  
 {  
 finalMinutes = "0" + finalMinutes;  
  
 }  
 if(finalSeconds.length() == 1)  
 {  
 finalSeconds = "0" + finalSeconds;  
 }  
  
 timerTextView.setText(finalMinutes+ ":" + finalSeconds);  
  
 }  
 });  
 }  
 }, 1000, 1000);  
  
 }  
 private int getCorrectAnswers(){  
  
 int correctAnswer = 0;  
 for(int i=0;i<questionsLists.size();i++){  
 final String getUserSelectedAnswer = questionsLists.get(i).getUserSelectedAnswer();  
 final String getAnswer = questionsLists.get(i).getAnswer();  
 if(getUserSelectedAnswer.equals(getAnswer))  
 {  
 correctAnswer++;  
 }  
 }  
 return correctAnswer;  
 }  
  
 private int getInCorrectAnswers(){  
  
 int correctAnswer = 0;  
 for(int i=0;i<questionsLists.size();i++){  
 final String getUserSelectedAnswer = questionsLists.get(i).getUserSelectedAnswer();  
 final String getAnswer = questionsLists.get(i).getAnswer();  
 if(!getUserSelectedAnswer.equals(getAnswer))  
 {  
 correctAnswer++;  
 }  
 }  
 return correctAnswer;  
 }  
  
 @Override  
 public void onBackPressed() {  
 quizTimer.purge();  
 quizTimer.cancel();  
  
 startActivity(new Intent(Quiz\_Activity.this,dashboard.class));  
 finish();  
 }  
 private void revealAnswer(){  
 final String getAnswer = questionsLists.get(currentQuestionPosition).getAnswer();  
 if(option1.getText().toString().equals(getAnswer)){  
 option1.setBackgroundResource(R.drawable.*round\_back\_green10* );  
 option1.setTextColor(Color.*WHITE*);  
 }  
 else if(option2.getText().toString().equals(getAnswer))  
 {  
 option2.setBackgroundResource(R.drawable.*round\_back\_green10* );  
 option2.setTextColor(Color.*WHITE*);  
 }  
 else if(option3.getText().toString().equals(getAnswer)){  
 option3.setBackgroundResource(R.drawable.*round\_back\_green10* );  
 option3.setTextColor(Color.*WHITE*);  
 }  
 else if(option4.getText().toString().equals(getAnswer))  
 {  
 option4.setBackgroundResource(R.drawable.*round\_back\_green10* );  
 option4.setTextColor(Color.*WHITE*);  
 }  
 }  
  
}

**Result activity.xml Code:**

<?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"  
 android:background="@drawable/background\_quiz"  
 tools:context=".QuizResult">  
  
 <ImageView  
 android:id="@+id/congratulation\_icon"  
 android:layout\_width="382dp"  
 android:layout\_height="340dp"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="50dp"  
 android:layout\_marginEnd="10dp"  
 android:adjustViewBounds="true"  
 android:src="@drawable/cong" />  
  
 <TextView  
 android:id="@+id/success\_textview"  
 android:layout\_width="match\_parent"  
 android:layout\_height="46dp"  
 android:layout\_below="@+id/congratulation\_icon"  
 android:layout\_marginTop="50dp"  
 android:gravity="center"  
 android:text="You have Successfully Completed The Quiz "  
 android:textColor="#FFFFFF"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/success\_textview"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="10dp"  
 android:orientation="vertical">  
  
 <TextView  
 android:id="@+id/correct\_answer"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="41dp"  
 android:text="Correct Answer : 0"  
 android:textColor="#FFEB3B"  
 android:textStyle="bold" />  
  
 <TextView  
 android:id="@+id/incorrect\_answer"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="5dp"  
 android:text="Wrong Answers : 0 "  
 android:textColor="#DD2C00"  
 android:textStyle="bold" />  
 </LinearLayout>  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/startQuizBtn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="45dp"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="590dp"  
 android:layout\_marginRight="40dp"  
 android:layout\_marginBottom="10dp"  
 android:background="@drawable/btn\_background"  
 android:text="Start new Quiz"  
 android:textColor="@color/white"  
 android:textStyle="bold" />  
  
</RelativeLayout>

**OutPut:**

****

**Result activity.java Code:**

package com.example.quizlet;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.AppCompatButton;  
  
  
public class QuizResult extends AppCompatActivity {  
  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_quiz\_result*);  
  
  
 final AppCompatButton startNewBtn = findViewById(R.id.*startQuizBtn*);  
 final TextView correctAnswer = findViewById(R.id.*correct\_answer*);  
 final TextView incorrectAnswers = findViewById(R.id.*incorrect\_answer*);  
  
 final int getCorrectAnswers = getIntent().getIntExtra("Correct", 0);  
 final int getIncorrectAnswers = getIntent().getIntExtra("Incorrect", 0);  
  
 correctAnswer.setText(String.*valueOf*(getCorrectAnswers));  
 incorrectAnswers.setText(String.*valueOf*(incorrectAnswers));  
  
  
 startNewBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 startActivity(new Intent(QuizResult.this, MainActivity.class));  
 finish();  
 }  
 });  
 }  
 public void onBackPressed()  
 {  
 startActivity(new Intent(QuizResult.this, MainActivity.class));  
 finish();  
 }  
  
}

**QusestionsBank.java Code:**

package com.example.quizlet;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class QuestionsBank {  
  
 private static List<QuestionsList> javaQuestions()  
 {  
 final List<QuestionsList> questionsLists = new ArrayList<>();  
  
  
 final QuestionsList question1 = new QuestionsList("what is the size of int variable ?", "16 bits ", "8 bits"," 32 bits","64 bits "," 32 bits","");  
 final QuestionsList question2 = new QuestionsList("what is the default value of boolean variable ? ", " True", " False","Null"," not defined","False","");  
 final QuestionsList question3 = new QuestionsList("what is the default value of an instance variable? ", " depend on the type of variable ", "null","0","not assigned","depends on the type of variable","");  
 final QuestionsList question4 = new QuestionsList("what is the reversed word in the java programming language ?", "method ", "native","reference","array","native","");  
 final QuestionsList question5 = new QuestionsList("which of the following is not the keyword or reserved words in java? ", "if", "than","goto","while","than","");  
 final QuestionsList question6 = new QuestionsList("which is the valid declaration within an interface definition?", "public double method()", " public final method()","static void method(double d1)","protected void method(double d1)","public double method()","");  
  
 questionsLists.add(question1);  
 questionsLists.add(question2);  
 questionsLists.add(question3);  
 questionsLists.add(question4);  
 questionsLists.add(question5);  
 questionsLists.add(question6);  
  
 return questionsLists;  
  
 }  
  
 private static List<QuestionsList> phpQuestions()  
 {  
 final List<QuestionsList> questionsLists = new ArrayList<>();  
  
  
 final QuestionsList question1 = new QuestionsList("what does php stand for?", " Professional Home Page ", "Hypertext Preprocessor"," Pretext Hypertext Processor"," ","Hypertext Preprocessor","");  
 final QuestionsList question2 = new QuestionsList("who is the father of php? ", " Rasmus Lerdrof", " William Makepiece","Derk Kolkevi"," List Barely","Rasmus Lerdrof","");  
 final QuestionsList question3 = new QuestionsList("PHP have a default file extension of.? ", " .html", ".php",".java",".txt",".php","");  
 final QuestionsList question4 = new QuestionsList(" A PHP script should start with \_\_\_\_\_ and end with \_\_\_\_?", "<php> ", "<php/>","<??>","<?php?>","<?php?>","");  
 final QuestionsList question5 = new QuestionsList("which version of PHP introduce Try/Catch Exception? ", "PHP 4", "PHP 5","PHP 6","PHP 5.3","PHP 5","");  
 final QuestionsList question6 = new QuestionsList("Is $a = 12 what will be returned when ($a == 12 )? 5:1 is executed ?", "12", " 1","5","error","5","");  
  
 questionsLists.add(question1);  
 questionsLists.add(question2);  
 questionsLists.add(question3);  
 questionsLists.add(question4);  
 questionsLists.add(question5);  
 questionsLists.add(question6);  
  
 return questionsLists;  
  
 }  
  
 private static List<QuestionsList> androidQuestions()  
 {  
 final List<QuestionsList> questionsLists = new ArrayList<>();  
  
  
 final QuestionsList question1 = new QuestionsList("Select a component which is NOT the part of Android architecture?", "Android Framework ", "Libraries"," Linux Kernel","Android Document "," Linux Kernel","");  
 final QuestionsList question2 = new QuestionsList("A \_\_\_\_\_\_\_\_\_\_ makes a specific set of the application data available to other applications ? ", "Contact Provider", "Broadcast receiver","Intent"," None of these","False","");  
 final QuestionsList question3 = new QuestionsList("which among these are not a part of Android's Native Libraries? ", " Webkit ", "Dalvik","OpenGL","SQLite","Dalvik","");  
 final QuestionsList question4 = new QuestionsList("During an Activity life-cycle, what is the first callback method invoke by the system ?", "onStop() ", "onStart","onCreate","onRestore","onCreate","");  
 final QuestionsList question5 = new QuestionsList("what Activity method you use to retrieve a reference to a Android view by using the id attribute of a resource XML? ", "findViewByReference(int id)", "findViewById(int id)","findViewById(String id)","retrieveReferenceById(int id)","findViewById(int id)","");  
 final QuestionsList question6 = new QuestionsList("The requests from Content Provider class is handle by method ?", "onCreate", "onSelect","ContentResolver","onClick","ContentResolver","");  
  
 questionsLists.add(question1);  
 questionsLists.add(question2);  
 questionsLists.add(question3);  
 questionsLists.add(question4);  
 questionsLists.add(question5);  
 questionsLists.add(question6);  
  
 return questionsLists;  
  
 }  
  
 private static List<QuestionsList> htmlQuestions()  
 {  
 final List<QuestionsList> questionsLists = new ArrayList<>();  
  
  
 final QuestionsList question1 = new QuestionsList("HTML Stands for?", "Hyper Text Markup Language", "High Text Markup Language"," Hyper Tabular Markup Language ","None of these ","Hyper Text Markup Language ","");  
 final QuestionsList question2 = new QuestionsList("which of the following tag is used to mark a beginning of paragraph ? ", " <TB>", " <br>","<P>","<TR>","<P>","");  
 final QuestionsList question3 = new QuestionsList("From which tag descriptive list starts? ", " <DD> ", "<DL>","LI","<DS>","<DL>","");  
 final QuestionsList question4 = new QuestionsList("Correct HTML tag for the largest heading is?", "<head> ", "<large>","<h6>","<h1>","<h1>","");  
 final QuestionsList question5 = new QuestionsList("The attribute of <from> tag ? ", "<method>", "<action>","Both (a)&(b)","None of these","Both (a)&(b)","");  
 final QuestionsList question6 = new QuestionsList(" Markup tags tell the web browser ?", "How to organize the page", "How to display the page","How to display message box on page","None of these","How to display the page","");  
  
 questionsLists.add(question1);  
 questionsLists.add(question2);  
 questionsLists.add(question3);  
 questionsLists.add(question4);  
 questionsLists.add(question5);  
 questionsLists.add(question6);  
  
 return questionsLists;  
  
 }  
 public static List<QuestionsList> getQuestions(String selectedTopicName){  
 switch (selectedTopicName)  
 {  
 case "java":  
 return *javaQuestions*();  
 case "php":  
 return *phpQuestions*();  
 case "android":  
 return *androidQuestions*();  
 default :  
 return *htmlQuestions*();  
 }  
 }  
  
  
  
}

**Qusestionslist.java Code:**

package com.example.quizlet;  
  
public class QuestionsList {  
  
  
 private String question,option1, option2, option3, option4, answer;  
 private String userSelectedAnswer;  
  
  
 public QuestionsList(String question, String option1, String option2, String option3, String option4, String answer, String userSelectedAnswer) {  
 this.question = question;  
 this.option1 = option1;  
 this.option2 = option2;  
 this.option3 = option3;  
 this.option4 = option4;  
 this.answer = answer;  
 this.userSelectedAnswer = userSelectedAnswer;  
 }  
  
  
 public String getQuestion() {  
 return question;  
 }  
  
 public String getOption1() {  
 return option1;  
 }  
  
 public String getOption2() {  
 return option2;  
 }  
  
 public String getOption3() {  
 return option3;  
 }  
  
 public String getOption4() {  
 return option4;  
 }  
  
 public String getAnswer() {  
 return answer;  
 }  
  
 public String getUserSelectedAnswer() {  
 return userSelectedAnswer;  
 }  
  
 public void setUserSelectedAnswer(String userSelectedAnswer) {  
 this.userSelectedAnswer = userSelectedAnswer;  
 }  
  
}