Logo

Description automatically generated

**IS433 : Mobile Computing Application**

Bank Questions Project

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**Introduction**

Our project is about Bank of questions application consist of two parts a first part is about student , the student open the application for solving many questions such as (multiple choice , true & false ) and another type of the questions ,

Second part for the Admin of the application , the Admin has a control for putting the questions to the student at the application for answering this questions and admin also has control for classifying the questions according to the age of the student and according also to his level as (primary or preparatory) and also have a control for delete any question from the app ,

When we rum our project we can login as admin by open the login activity to login then the admin has 3 choices for adding true & false question or MCQ Question and any questions will add by admin the questions will be added to database to be stored and if he want to delete it the question automatic will be deleted

***(1) Activity\_Main.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#ECEBE5"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="105dp"  
 tools:layout\_editor\_absoluteY="157dp"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="119dp"  
 android:layout\_height="32dp"  
 android:layout\_marginStart="16dp"  
 android:text="@string/user\_name1"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:layout\_editor\_absoluteY="123dp"  
 tools:ignore="HardcodedText"** />  
  
 <**EditText  
 android:id="@+id/tname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""** />  
  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="119dp"  
 android:layout\_height="32dp"  
 android:layout\_marginStart="16dp"  
 android:text="@string/password"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:layout\_editor\_absoluteY="211dp"** />  
  
 <**EditText  
 android:id="@+id/tpass"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"** />  
 </**LinearLayout**>  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**Button  
 android:id="@+id/blogin"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/login"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:layout\_editor\_absoluteX="59dp"** />  
  
 <**Button  
 android:id="@+id/bsignup"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/sign\_up"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 tools:layout\_editor\_absoluteX="208dp"** />  
 </**LinearLayout**>  
  
 <**TextView  
 android:id="@+id/error"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/invalid\_username\_password"  
 android:textColor="@color/design\_default\_color\_error"  
 tools:visibility="invisible"** />  
  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_Main.java***

**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteException;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
  
**import** java.io.File;  
  
  
**public class** MainActivity **extends** AppCompatActivity {  
 SQLiteDatabase **db**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 EditText username=(EditText)findViewById(R.id.***tname***);  
 EditText password=(EditText)findViewById(R.id.***tpass***);  
 Button bsignin=(Button)findViewById(R.id.***blogin***);  
 Button lsingup=(Button)findViewById(R.id.***bsignup***);  
 TextView error=(TextView)findViewById(R.id.***error***);  
 error.setVisibility(View.***INVISIBLE***);  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
  
 **try** {  
 **db** = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **db**.execSQL(**"create table if not exists student (id INTEGER PRIMARY KEY autoincrement, image TEXT,score1 INTEGER,score2 INTEGER,score3 INTEGER,score4 INTEGER,noofExams INTEGER, name TEXT NOT NULL UNIQUE, username TEXT,age INTEGER,password TEXT NOT NULL)"**);  
 **db**.execSQL(**"create table if not exists trueFalse(id INTEGER PRIMARY KEY autoincrement,question TEXT,answer TEXT,level TEXT);"**);  
 **db**.execSQL(**"create table if not exists MCQ(id INTEGER PRIMARY KEY autoincrement,question TEXT,answer1 TEXT,answer3 TEXT,answer2 TEXT,correctanswer TEXT,level TEXT);"**);  
  
 **db**.close();  
 } **catch** (SQLiteException e) {  
error.setText(**"Cannot open database"**);  
error.setVisibility(View.***VISIBLE***);  
 }  
 bsignin.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String uname=username.getText().toString();  
  
 String pass=password.getText().toString();  
 **if**(uname.equals(**"admin"**)&&pass.equals(**"12345"**))  
 {  
 Intent i = **new** Intent(MainActivity.**this**, ADMIN.**class**);  
 startActivity(i);  
 }  
 **else**{  
  
 **try** {  
 **db** = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
}**catch** (SQLiteException e) {  
error.setVisibility(View.***VISIBLE***);  
}  
 Cursor c = **null**;  
 c = **db**.rawQuery(**"SELECT name,id,age,noofExams FROM student WHERE username='"**+uname+**"' AND password='"**+ pass+**"'"**, **null**);  
  
 **if** (c.getCount()!=0) {  
 c.moveToFirst();  
  
 StudentForm.*name*=c.getString(0);  
 StudentForm.*id*=c.getInt(1);  
 StudentForm.*age*=c.getInt(2);  
 StudentForm.*noOfExams*=c.getInt(3);  
 Intent i = **new** Intent(MainActivity.**this**, StudentForm.**class**);  
 startActivity(i);  
 }  
 **else**{  
 error.setText(**"Invalid username/password"**);  
 error.setVisibility(View.***VISIBLE***);  
 }  
  
  
 }  
 }  
  
 });  
 lsingup.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent i = **new** Intent(MainActivity.**this**, RegForm.**class**);  
 startActivity(i);  
 }  
 });  
 }  
}

***(2) Activity\_admin.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ADMIN"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="25dp"  
 tools:layout\_editor\_absoluteY="152dp"**>  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-condensed"  
 android:text="@string/welcome\_admin"  
 android:textColor="#8C1515"  
 android:textSize="30sp"** />  
  
 <**Button  
 android:id="@+id/addtf"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/add\_true\_false\_question"** />  
  
 <**Button  
 android:id="@+id/addmcq"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/add\_mcq\_question"** />  
  
 <**Button  
 android:id="@+id/delete"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/delete\_question"** />  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_admin.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
  
**public class** ADMIN **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_a\_d\_m\_i\_n***);  
 Button btf=(Button)findViewById(R.id.***addtf***);  
 Button bmcq=(Button)findViewById(R.id.***addmcq***);  
 Button delete=(Button)findViewById(R.id.***delete***);  
btf.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent i = **new** Intent(ADMIN.**this**, AddTrueFalse.**class**);  
 startActivity(i);  
 }  
});  
 bmcq.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent i = **new** Intent(ADMIN.**this**, ADDMCQ.**class**);  
 startActivity(i);  
 }  
 });  
 delete.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent i = **new** Intent(ADMIN.**this**, DeleteQuestion.**class**);  
 startActivity(i);  
 }  
 });  
 }  
}

***(3) Activity\_add true & false.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".AddTrueFalse"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="83dp"  
 tools:layout\_editor\_absoluteY="101dp"**>  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/question"  
 android:textColor="#D84C4C"  
 android:textSize="30sp"  
 tools:layout\_editor\_absoluteX="18dp"  
 tools:layout\_editor\_absoluteY="23dp"** />  
  
  
 <**EditText  
 android:id="@+id/question"  
 android:layout\_width="406dp"  
 android:layout\_height="94dp"  
 android:ems="10"  
 android:gravity="start|top"  
 android:inputType="textMultiLine"  
 tools:layout\_editor\_absoluteY="78dp"  
 android:importantForAutofill="no"  
 tools:ignore="LabelFor"** />  
 <**TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/answer"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="14dp"  
 tools:layout\_editor\_absoluteY="269dp"** />  
 <**RadioGroup  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 tools:layout\_editor\_absoluteX="32dp"  
 tools:layout\_editor\_absoluteY="351dp"** >  
  
 <**RadioButton  
 android:id="@+id/rtrue"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/true1"  
 tools:layout\_editor\_absoluteX="14dp"  
 tools:layout\_editor\_absoluteY="338dp"** />  
  
 <**RadioButton  
 android:id="@+id/rfalse"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
   
 android:text="@string/false1"  
 app:layout\_constraintStart\_toStartOf="parent"  
 tools:layout\_editor\_absoluteY="404dp"** />  
 </**RadioGroup**>  
 <**TextView  
 android:id="@+id/textView7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/level"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="34dp"  
 tools:layout\_editor\_absoluteY="497dp"  
 tools:ignore="HardcodedText"** />  
 <**RadioGroup  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"** >  
 <**RadioButton  
 android:id="@+id/rprimary"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/primary"  
 tools:layout\_editor\_absoluteX="21dp"  
 tools:layout\_editor\_absoluteY="540dp"** />  
  
 <**RadioButton  
 android:id="@+id/rprep"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/prep"  
 tools:layout\_editor\_absoluteX="21dp"  
 tools:layout\_editor\_absoluteY="605dp"** />  
 </**RadioGroup**>  
 <**Button  
 android:id="@+id/addq"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="16dp"  
 android:text="@string/add"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 tools:layout\_editor\_absoluteX="101dp"** />  
  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***(4) Activity\_add true & false.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteException;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.RadioButton;  
**import** android.widget.Toast;  
  
**import** java.io.File;  
  
**public class** AddTrueFalse **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_add\_true\_false***);  
 EditText question=(EditText)findViewById(R.id.***question***);  
 RadioButton rtrue=(RadioButton)findViewById(R.id.***rtrue***);  
 RadioButton rfalse=(RadioButton)findViewById(R.id.***rfalse***);  
 RadioButton rprim=(RadioButton)findViewById(R.id.***rprimary***);  
 RadioButton rprep=(RadioButton)findViewById(R.id.***rprep***);  
 Button b=(Button)findViewById(R.id.***addq***);  
 b.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String q=question.getText().toString();  
 String answer,Level;  
 **if**(rtrue.isChecked())  
 answer=**"true"**;  
 **else** answer=**"false"**;  
 **if**(rprim.isChecked())  
 Level=**"prim"**;  
 **else** Level=**"prep"**;  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
  
  
 SQLiteDatabase db = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **try** {  
 db.execSQL(**"insert into trueFalse(question,answer,level) values('"**+q+**"','"**+answer+**"','"**+Level+**"');"**);  
  
 } **catch** (SQLiteException e) {  
  
  
 }  
 Toast.*makeText*(getApplicationContext(),**"Added"**,Toast.***LENGTH\_LONG***).show();  
  
 db.close();  
  
 }  
 });  
 }

***(5) Activity\_delete question.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".DeleteQuestion"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="126dp"  
 tools:layout\_editor\_absoluteY="83dp"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="105dp"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="@string/select\_type"  
 android:textColor="#DC2323"  
 android:textSize="30sp"** />  
  
 <**RadioGroup  
 android:layout\_width="140dp"  
 android:layout\_height="match\_parent"**>  
  
 <**RadioButton  
 android:id="@+id/radioButton"  
 android:layout\_width="123dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/treu\_false"** />  
  
  
 <**RadioButton  
 android:id="@+id/radioButton2"  
 android:layout\_width="123dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/mcq"** />  
  
  
 </**RadioGroup**>  
  
 <**Button  
 android:id="@+id/buttonshow"  
 android:layout\_width="101dp"  
 android:layout\_height="wrap\_content"  
 android:text="@string/show"** />  
 </**LinearLayout**>  
  
 <**TextView  
 android:id="@+id/textView8"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/select\_question\_to\_delete\_it"  
 android:textColor="#DC2323"  
 android:textSize="30sp"** />  
 <**ListView  
 android:id="@+id/listquestion"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="537dp"**>  
  
 </**ListView**>  
  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_delete question.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Button;  
**import** android.widget.ListView;  
**import** android.widget.RadioButton;  
**import** android.widget.Toast;  
  
**import** java.io.File;  
  
**public class** DeleteQuestion **extends** AppCompatActivity {  
 ArrayAdapter<String> **qAdapter**;  
 ListView **que**;  
 SQLiteDatabase **db**;  
  
 **void** fillListView(String type)  
 {  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
 **db** = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **if**(type.equals(**"tf"**))  
 { Cursor cursor2=**db**.rawQuery(**"select question from truefalse"**,**null**);  
 **if** (cursor2 != **null**) {  
 cursor2.moveToFirst();  
 }  
 **while**(!cursor2.isAfterLast())  
 {  
 String q=cursor2.getString(0);  
  
 **qAdapter**.add(q);  
 cursor2.moveToNext();  
 }  
 **db**.close();  
  
 }  
 **else** {  
 Cursor cursor2=**db**.rawQuery(**"select question from MCQ"**,**null**);  
 **if** (cursor2 != **null**) {  
 cursor2.moveToFirst();  
 }  
 **while**(!cursor2.isAfterLast())  
 {  
 String q=cursor2.getString(0);  
  
 **qAdapter**.add(q);  
 cursor2.moveToNext();  
 }  
 **db**.close();  
  
  
 }  
 }  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_delete\_question***);  
 Button bshow=(Button)findViewById(R.id.***buttonshow***);  
 **que**=(ListView)findViewById(R.id.***listquestion***);  
 RadioButton r=(RadioButton)findViewById(R.id.***radioButton***);  
 **qAdapter**=**new** ArrayAdapter<String>(getApplicationContext(),android.R.layout.***simple\_list\_item\_1***);  
 **que**.setAdapter(**qAdapter**);  
 bshow.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **qAdapter**.clear();  
 **if**(r.isChecked())  
 {  
 fillListView(**"tf"**);  
 }  
 **else** fillListView(**"mcq"**);  
  
  
 }  
 });  
**que**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  
 String selectedq= (String) parent.getItemAtPosition(position);  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
 **db** = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **if**(r.isChecked())  
 {  
 **db**.execSQL(**"delete from truefalse where question='"**+ selectedq+**"';"**);  
 **qAdapter**.clear();  
 fillListView(**"tf"**);  
 }  
 **else** {  
 **db**.execSQL(**"delete from mcq where question='"**+ selectedq+**"';"**);  
 **qAdapter**.clear();  
 fillListView(**"mcq"**);  
  
 }  
 }  
});  
  
 }

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***( 6 ) Activity\_add MCQ.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".ADDMCQ"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="209dp"  
 tools:layout\_editor\_absoluteY="181dp"**>  
  
  
  
  
 <**TextView  
 android:id="@+id/textView10"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/question"  
 android:textColor="#D84C4C"  
 android:textSize="30sp"  
 tools:layout\_editor\_absoluteX="18dp"  
 tools:layout\_editor\_absoluteY="23dp"** />  
  
 <**EditText  
 android:id="@+id/que"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:gravity="start|top"  
 android:inputType="textMultiLine"  
 tools:layout\_editor\_absoluteY="78dp"  
 android:importantForAutofill="no"  
 tools:ignore="LabelFor"** />  
  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView11"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/answer1"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="14dp"  
 tools:layout\_editor\_absoluteY="269dp"**/>  
  
 <**EditText  
 android:id="@+id/answer1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:importantForAutofill="no"** />  
  
 <**CheckBox  
 android:id="@+id/chanswer1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="@string/checkbox"  
 tools:ignore="HardcodedText"** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView12"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/answer2"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="14dp"  
 tools:layout\_editor\_absoluteY="269dp"**/>  
  
 <**EditText  
 android:id="@+id/answer2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:importantForAutofill="no"  
 tools:ignore="LabelFor"** />  
 <**CheckBox  
 android:id="@+id/chanswer2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="@string/checkbox"** />  
</**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView13"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/answer3"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="14dp"  
 tools:layout\_editor\_absoluteY="269dp"**/>  
  
 <**EditText  
 android:id="@+id/answer3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
 <**CheckBox  
 android:id="@+id/chanswer3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="@string/checkbox"** />  
 </**LinearLayout**>  
 <**TextView  
 android:id="@+id/textView15"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/level"  
 android:textColor="#D52828"  
 tools:layout\_editor\_absoluteX="34dp"  
 tools:layout\_editor\_absoluteY="497dp"** />  
  
  
  
 <**RadioGroup  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** >  
 <**RadioButton  
 android:id="@+id/rprep2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/prep"  
 tools:layout\_editor\_absoluteX="21dp"  
 tools:layout\_editor\_absoluteY="605dp"** />  
  
 <**RadioButton  
 android:id="@+id/rprimary2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/primary"  
 tools:layout\_editor\_absoluteX="21dp"  
 tools:layout\_editor\_absoluteY="540dp"** />  
  
 <**Button  
 android:id="@+id/buttonadd"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/add"** />  
  
 <**TextView  
 android:id="@+id/error\_"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="#EF2D2D"** />  
  
  
 </**RadioGroup**>  
 </**LinearLayout**>  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_add MCQ.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.ContentValues;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteException;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.CheckBox;  
**import** android.widget.EditText;  
**import** android.widget.RadioButton;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** java.io.File;  
  
**public class** ADDMCQ **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_a\_d\_d\_m\_c\_q***);  
 EditText que=(EditText)findViewById(R.id.***que***);  
 EditText ans1=(EditText)findViewById(R.id.***answer1***);  
 EditText ans2=(EditText)findViewById(R.id.***answer2***);  
 EditText ans3=(EditText)findViewById(R.id.***answer3***);  
 CheckBox chans1=(CheckBox)findViewById(R.id.***chanswer1***);  
 CheckBox chans2=(CheckBox)findViewById(R.id.***chanswer2***);  
 CheckBox chans3=(CheckBox)findViewById(R.id.***chanswer3***);  
 RadioButton rprim=(RadioButton)findViewById(R.id.***rprimary2***);  
 RadioButton rprep=(RadioButton)findViewById(R.id.***rprep2***);  
 Button badd=(Button)findViewById(R.id.***buttonadd***);  
 TextView err=(TextView)findViewById(R.id.***error\_***);  
 badd.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String q,a1,a2,a3,correctanswer=**""**,level=**""**;  
 **int** correct=1;  
 **int** selectedcorrectanswer=0;  
 q=que.getText().toString();  
 a1=ans1.getText().toString();  
 a2=ans2.getText().toString();  
 a3=ans3.getText().toString();  
 **if**(q.equals(**""**)||a1.equals(**""**)||a2.equals(**""**)||a3.equals(**""**))  
 correct=0;  
 **if**(chans1.isChecked()) {  
 correctanswer=a1;  
 selectedcorrectanswer++;  
 }  
 **if**(chans2.isChecked()) {  
 correctanswer=a2;  
 selectedcorrectanswer++;  
 }  
 **if**(chans3.isChecked()) {  
 correctanswer=a3;  
 selectedcorrectanswer++;  
 }  
 **if**(selectedcorrectanswer!=1)  
 correct=0;  
 **if**(rprim.isChecked())  
 level=**"prim"**;  
 **else if**(rprep.isChecked())  
 level=**"prep"**;  
 **else** correct=0;  
 **if** (correct==0)  
 err.setText(**"You have to entered all the inputs and select only on correct answer"**);  
 **else** {  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
  
  
 SQLiteDatabase db = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **try** {  
 ContentValues myArgs= **new** ContentValues();  
 myArgs.put(**"question"**, q);  
 myArgs.put(**"answer1"**, a1);  
 myArgs.put(**"answer2"**, a2);  
 myArgs.put(**"answer3"**, a3);  
 myArgs.put(**"correctanswer"**, correctanswer);  
 myArgs.put(**"level"**, level);  
 db.insert(**"mcq"**, **null**, myArgs);  
 Toast.*makeText*(getApplicationContext(),**"Added"**,Toast.***LENGTH\_LONG***).show();  
  
  
 } **catch** (SQLiteException e) {  
 Toast.*makeText*(getApplicationContext(),**"EEEE"**,Toast.***LENGTH\_LONG***).show();  
  
 }  
 Toast.*makeText*(getApplicationContext(),**"Added"**,Toast.***LENGTH\_LONG***).show();  
  
 db.close();  
 }  
 }  
 });  
 }  
}

***(7) Activity\_Register\_Form.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".RegForm"**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="74dp"  
 tools:layout\_editor\_absoluteY="70dp"**>  
  
 <**TextView  
 android:id="@+id/textView14"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/enter\_your\_information"  
 android:textColor="#CD0808"  
 android:textSize="24sp"** />  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:id="@+id/textView16"  
 android:layout\_width="84dp"  
 android:layout\_height="31dp"  
 android:text="@string/name"** />  
  
 <**EditText  
 android:id="@+id/stuname"  
 android:layout\_width="84dp"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:id="@+id/textView17"  
 android:layout\_width="84dp"  
 android:layout\_height="31dp"  
 android:text="@string/username"** />  
  
 <**EditText  
 android:id="@+id/stuusername"  
 android:layout\_width="84dp"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text=""** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:id="@+id/textView18"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/password"** />  
  
 <**EditText  
 android:id="@+id/studpassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:id="@+id/textView19"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/confirmpassword"** />  
  
 <**EditText  
 android:id="@+id/studpassword2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPassword"  
 android:importantForAutofill="no"  
 tools:ignore="LabelFor"** />  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"**>  
 <**TextView  
 android:id="@+id/textView20"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/age"** />  
  
 <**EditText  
 android:id="@+id/age"  
 android:layout\_width="84dp"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="number"  
 android:importantForAutofill="no"  
 tools:ignore="LabelFor"** />  
 </**LinearLayout**>  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 tools:ignore="UselessLeaf"** />  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/add"** />  
  
 <**TextView  
 android:id="@+id/err"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textColor="#A82626"  
 android:textSize="30sp"** />  
  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_Register\_Form.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.ContentValues;  
**import** android.content.Intent;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteException;  
**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.File;  
  
**public class** RegForm **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_reg\_form***);  
 EditText stname=(EditText)findViewById(R.id.***stuname***);  
 EditText pass=(EditText)findViewById(R.id.***studpassword***);  
 EditText pass2=(EditText)findViewById(R.id.***studpassword2***);  
 EditText age=(EditText)findViewById(R.id.***age***);  
 Button badd=(Button)findViewById(R.id.***button***);  
 TextView terr=(TextView)findViewById(R.id.***err***);  
 EditText tusername=(EditText)findViewById(R.id.***stuusername***);  
 badd.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String name = stname.getText().toString();  
 String password = pass.getText().toString();  
 String password2 = pass2.getText().toString();  
 **int** stage = Integer.*parseInt*(age.getText().toString());  
  
 String uname = tusername.getText().toString();  
 **if**(uname.equals(**"admin"**))  
 terr.setText(**"You can not use this username"**);  
  
 **else if** (name.equals(**""**) || password.equals(**""**) || password2.equals(**""**) || !password.equals(password2)||uname.equals(**""**))  
 terr.setText(**"Missing/incorrect data"**);  
 **else** {  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
 SQLiteDatabase db = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **try** {  
 ContentValues myArgs = **new** ContentValues();  
 myArgs.put(**"name"**, name);  
 myArgs.put(**"password"**, password);  
 myArgs.put(**"age"**, stage);  
 myArgs.put(**"username"**, uname);  
 myArgs.put(**"noofExams"**,1);  
 db.insert(**"student"**, **null**, myArgs);  
 } **catch** (SQLiteException e)  
 {  
  
 }  
 Intent i = **new** Intent(RegForm.**this**, MainActivity.**class**);  
 startActivity(i);  
  
 db.close();  
 }  
 }  
 });  
 }  
}

***Activity\_Student\_Form.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".StudentForm"**>  
 <**LinearLayout  
 android:id="@+id/linearlayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:layout\_editor\_absoluteX="110dp"  
 tools:layout\_editor\_absoluteY="240dp"**>  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="@string/textview"  
 android:textColor="#ED2828"  
 android:textSize="24sp"** />  
 </**LinearLayout**>  
</**androidx.constraintlayout.widget.ConstraintLayout**>

***Activity\_Student\_Form.java***

**package** com.example.project2;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.content.Intent;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.graphics.drawable.Drawable;  
**import** android.media.Image;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.LinearLayout;  
**import** android.widget.RadioButton;  
**import** android.widget.RadioGroup;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** java.io.File;  
**import** java.util.Random;  
  
**public class** StudentForm **extends** AppCompatActivity {  
 **static** String *name*;  
 **static int** *id*;  
 **static int** *age*;  
 **static int** *noOfExams*;  
 **static** MCQClass *qlist*[];  
 **static** trueFalseClass *qlist2*[];  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_student\_form***);  
 TextView t=(TextView)findViewById(R.id.***textView4***);  
 TextView t2 = **new** TextView(**this**);  
 LinearLayout llMain = findViewById(R.id.***linearlayout***);  
 Button Submit =**new** Button(**this**);  
 **int** selectedQuestions[][]=**new int**[3][2];  
  
 String level;  
 **if**(*age*<=12) {  
 level = **"prim"**;  
 }  
 **else** level=**"prep"**;  
 t.setText(**"Welcome:"**+*name*+**" Your age:"**+*age*);  
 **int** questions=0;  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
 SQLiteDatabase db = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 Cursor cursor2=db.rawQuery(**"select question ,answer1,answer2,answer3, correctanswer , id from MCQ where level='"**+level+**"'"**,**null**);  
 **if** (cursor2 != **null**) {  
 cursor2.moveToFirst();  
 }  
  
 *qlist*=**new** MCQClass[cursor2.getCount()];  
  
 **int** i=0;  
 **while**(!cursor2.isAfterLast())  
 {  
 *qlist*[i]=**new** MCQClass(cursor2.getString(0),cursor2.getString(1),cursor2.getString(2),cursor2.getString(3),cursor2.getString(4),cursor2.getInt(5));  
 cursor2.moveToNext();  
 i++;  
 }  
 Cursor cursor3=db.rawQuery(**"select question ,answer,id from trueFalse where level='"**+level+**"'"**,**null**);  
 **if** (cursor3 != **null**) {  
 cursor3.moveToFirst();  
 }  
 *qlist2*=**new** trueFalseClass[cursor3.getCount()];  
 **int** j=0;  
 **while**(!cursor3.isAfterLast())  
 {  
 *qlist2*[j]=**new** trueFalseClass(cursor3.getString(0),cursor3.getString(1),cursor3.getInt(2));  
 cursor3.moveToNext();  
 j++;  
 }  
  
**while**(questions<3)  
{**int** b =(**int**) (Math.*random*() \* 2);  
 **if**(b==0)  
 {  
 **if** (j != 0) {  
  
 **int** qnumber = (**int**) (Math.*random*() \* j);  
 TextView textView = **new** TextView(**this**);  
 RadioGroup rg = **new** RadioGroup(**this**);  
  
 RadioButton r1 = **new** RadioButton(**this**);  
 RadioButton r2 = **new** RadioButton(**this**);  
 r1.setText(**"true"**);  
 r2.setText(**"false"**);  
 rg.addView(r1);  
 rg.addView(r2);  
  
 **if** (*qlist2*[qnumber].**answer**.equals(**"true"**)) {  
 r1.setId(*qlist2*[qnumber].**id**);  
 }  
 **else** {  
 r2.setId(*qlist2*[qnumber].**id**);  
 }  
 textView.setText(**"Q"** +( questions+1)+**") "** + *qlist2*[qnumber].**question**);  
 LinearLayout.LayoutParams params = **new** LinearLayout.LayoutParams(  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***,  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***);  
 textView.setLayoutParams(params);  
 r1.setLayoutParams(params);  
 r2.setLayoutParams(params);  
  
 llMain.addView(textView);  
 llMain.addView(rg);  
 selectedQuestions[questions][0] = 0;  
 selectedQuestions[questions][1] = qnumber;  
 questions++;  
 }  
 }  
  
 **else if**(b==1)  
 { **if**(i!=0)  
 {  
 **int** qnumber=(**int**)(Math.*random*()\*i);  
  
 TextView textView = **new** TextView(**this**);  
 RadioGroup rg = **new** RadioGroup(**this**);  
 RadioButton r1 = **new** RadioButton(**this**);  
 RadioButton r2 = **new** RadioButton(**this**);  
 RadioButton r3 = **new** RadioButton(**this**);  
 r1.setText(*qlist*[qnumber].**answer1**);  
 r2.setText(*qlist*[qnumber].**answer2**);  
 r3.setText(*qlist*[qnumber].**answer3**);  
 rg.addView(r1);  
 rg.addView(r2);  
 rg.addView(r3);  
 **if** (*qlist*[qnumber].**correctanswer**.equals(*qlist*[qnumber].**answer1**)) {  
 r1.setId(*qlist*[qnumber].**id**);  
  
 }  
 **else if** (*qlist*[qnumber].**correctanswer**.equals(*qlist*[qnumber].**answer2**))  
 {  
 r2.setId(*qlist*[qnumber].**id**);  
  
 }  
 **else**{  
 r3.setId(*qlist*[qnumber].**id**);  
  
 }  
 textView.setText(**"Q"** + *qlist*[qnumber].**id** + **") "** + *qlist*[qnumber].**question**);  
 LinearLayout.LayoutParams params = **new** LinearLayout.LayoutParams(  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***,  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***);  
 textView.setLayoutParams(params);  
 r1.setLayoutParams(params);  
 r2.setLayoutParams(params);  
 r3.setLayoutParams(params);  
 llMain.addView(textView);  
 llMain.addView(rg);  
 selectedQuestions[questions][0] = 1;  
 selectedQuestions[questions][1] = qnumber;  
 questions++;  
 }  
 }  
  
}  
 LinearLayout.LayoutParams params = **new** LinearLayout.LayoutParams(  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***,  
 LinearLayout.LayoutParams.***WRAP\_CONTENT***);  
Submit.setText(**"Submit"**);  
 Submit.setLayoutParams(params);  
 t2.setLayoutParams(params);  
 llMain.addView(Submit);  
 llMain.addView(t2);  
 Submit.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **int** score=0;  
 t2.setText(**""**);  
 **for**(**int** k=0;k<3;k++)  
 { **int** questionno=selectedQuestions[k][1];  
 **if**(selectedQuestions[k][0]==1)  
 {  
 **int** qid=*qlist*[questionno].**id**;  
  
 **for**(**int** f=0;f<llMain.getChildCount();f++)  
 {  
 View element = (View)llMain.getChildAt(f);  
 **if**(element **instanceof** RadioGroup) {  
 RadioGroup rg=(RadioGroup)element;  
 **int** id=rg.getCheckedRadioButtonId();  
 **if** (id== qid) {  
 score++;  
 **break**;  
 }  
 }  
 }  
  
 }  
 **else if**(selectedQuestions[k][0]==0)  
 {  
 **int** qid=*qlist2*[questionno].**id**;  
 **for**(**int** f=0;f<llMain.getChildCount();f++)  
 {  
 View element = (View)llMain.getChildAt(f);  
 **if**(element **instanceof** RadioGroup) {  
 RadioGroup rg=(RadioGroup)element;  
 **int** id=rg.getCheckedRadioButtonId();  
 **if** (id== qid) {  
  
 score++;  
 **break**;  
 }  
 }  
 }  
  
 }  
 }  
 File storagePath = getApplication().getFilesDir();  
 String myDbPath = storagePath + **"/"** + **"dataBase"**;  
 SQLiteDatabase db = SQLiteDatabase.*openDatabase*(myDbPath, **null**,  
 SQLiteDatabase.***CREATE\_IF\_NECESSARY***);  
 **switch**(*noOfExams*)  
 {  
 **case** 1:  
 db.execSQL(**"update student set score1="**+score+**" where id="**+*id*);  
 **break**;  
 **case** 2:  
 db.execSQL(**"update student set score2="**+score+**" where id="**+*id*);  
 **break**;  
 **case** 3:  
 db.execSQL(**"update student set score3="**+score+**" where id="**+*id*);  
 **break**;  
 **case** 4:  
 db.execSQL(**"update student set score4="**+score+**" where id="**+*id*);  
 **break**;  
 }  
 *noOfExams*++;  
 *noOfExams*=(*noOfExams*%4)+1;  
 db.execSQL(**"update student set noofExams="**+*noOfExams*+**" where id="**+*id*);  
 db.close();  
 t2.setText(**"your Score is:"**+score);  
 }  
 });  
  
  
 }  
}

***Strings.xml***

<**resources**>  
 <**string name="app\_name"**>Project2</**string**>  
 <**string name="welcome\_admin"**>Welcome Admin</**string**>  
 <**string name="add\_true\_false\_question"**>add True/False Question</**string**>  
 <**string name="add\_mcq\_question"**>Add MCQ Question</**string**>  
 <**string name="delete\_question"**>Delete Question</**string**>  
 <**string name="question"**>Question</**string**>  
 <**string name="add2"**>Add</**string**>  
 <**string name="primary2"**>Primary</**string**>  
 <**string name="prep6"**>prep</**string**>  
 <**string name="level1"**>Level</**string**>  
 <**string name="checkbox"**>CheckBox</**string**>  
 <**string name="answer3"**>Answer3</**string**>  
 <**string name="checkbox8"**>CheckBox</**string**>  
 <**string name="answer2"**>Answer2</**string**>  
 <**string name="checkbox6"**>CheckBox</**string**>  
 <**string name="answer1"**>Answer1</**string**>  
 <**string name="question1"**>Question</**string**>  
 <**string name="answer"**>Answer</**string**>  
 <**string name="true1"**>True</**string**>  
 <**string name="false1"**>False</**string**>  
 <**string name="level"**>Level</**string**>  
 <**string name="primary"**>Primary</**string**>  
 <**string name="prep"**>prep</**string**>  
 <**string name="addl"**>Add</**string**>  
 <**string name="textview"**>TextView</**string**>  
 <**string name="enter\_your\_information"**>Enter Your Information</**string**>  
 <**string name="name"**>Name</**string**>  
 <**string name="username"**>UserName</**string**>  
 <**string name="password9"**>Password</**string**>  
 <**string name="confirmpassword"**>ConfirmPassword</**string**>  
 <**string name="age"**>Age</**string**>  
 <**string name="add"**>Add</**string**>  
 <**string name="user\_name1"**>User name</**string**>  
 <**string name="invalid\_username\_password"**>Invalid Username /Password</**string**>  
 <**string name="sign\_up"**>Sign up</**string**>  
 <**string name="login"**>Login</**string**>  
 <**string name="password"**>Password</**string**>  
 <**string name="select\_question\_to\_delete\_it"**>Select question to delete it:</**string**>  
 <**string name="show"**>Show</**string**>  
 <**string name="mcq"**>MCQ</**string**>  
 <**string name="treu\_false"**>TREU/False</**string**>  
 <**string name="select\_type"**>Select Type:</**string**>  
</**resources**>

***Colors.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**resources**>  
 <**color name="purple\_200"**>#FFBB86FC</**color**>  
 <**color name="purple\_500"**>#FF6200EE</**color**>  
 <**color name="purple\_700"**>#FF3700B3</**color**>  
 <**color name="teal\_200"**>#FF03DAC5</**color**>  
 <**color name="teal\_700"**>#FF018786</**color**>  
 <**color name="black"**>#FF000000</**color**>  
 <**color name="white"**>#FFFFFFFF</**color**>  
</**resources**>

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***AndroidMainfest.xml***

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.project2"**>  
  
 <**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.Project2"**>  
 <**activity android:name=".RegForm"**></**activity**>  
 <**activity android:name=".ADDMCQ"** />  
 <**activity android:name=".DeleteQuestion"** />  
 <**activity android:name=".AddTrueFalse"** />  
 <**activity android:name=".StudentForm"** />  
 <**activity android:name=".ADMIN"** />  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

***Screenshots of project***







