A

# PROJECT REPORT

**ON** 

"Quiz App"

# In partial fulfillment of

B. Tech. III Year Computer Science & Engineering



#### **Submitted To:**

Mrs. PRANITA KALLA ASSISTANT PROFESSOR CSE

# **Submitted by:** VINAYAK MATHUR

V Semester A-3 T21EJICS156

Department of Computer Science & Engineering Jodhpur Institute of Engineering & Technology, Jodhpur 2023-2024

### CERTIFICATE

This is to certify that the project entitled "Quiz app" has been carried out by the student of "Jodhpur Institute of Engineering and Technology, Jodhpur" under my guidance and supervision in partial fulfilment of the degree of Bachelor of Engineering in Computer Science during the academic year 2023-2024.

Name of student: Vinayak Mathur Date:25/10/23 Name of the Faculty Mrs. Pranita Kalla ASSISTANT PROFESSOR CSE Department, JIET, Jodhpur

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Introduction: Quiz System is an innovative educational tool that allows teachers to create objective tests, administer them electronically, and track the results in real time. It provides an easy-to-use platform for teachers to conduct interactive and automated tests, with instant feedback.

Technology in the field of education is constantly evolving, growing and this increase will continually offer new and extraordinary advances in the field of education. Traditional E-learning systems developed for laptop and desktops were based on standalone application and web-based application architecture. These applications will have some limitations to be used effectively or we cannot use them easily since these applications need a computing device and network connectivity.

With the advancement in the mobile technology and availability of smart mobile devices and networks we can create a system which can be used to check knowledge levels of students. Since mobile network is available at maximum areas so this can be used for the knowledge testing of any person specially candidates of software company who need a specific skill for job.

#### **INTRODUCTION:**

This is a "QUIZ" android app which gives the information about CSE core subjects. First of all, every student should register in registration page by using his/her name unique roll number, by creating username and password. After registering, they need to login every time to access their account. Here we provide two menus i.e., test and reference books, these references provide necessary information which is needed to write test. In the test menu there are subjects in which we can select among some subjects and for every test it contains 20 questions and marks will be allotted for the right one.

References give the overall ideas and concepts included in the subjects. Thus, the main objective of the research is to develop an interactive mobile application based on android platform to conduct quiz sessions in the class for different technical topics.

I have used java language in development of this project.

### Chapter 2

**Experimental Setup (Code, step by step installation process...)** 

Runs on Emulation on device when run or debug is clicked, its response it

The execution of the app.

If any error exists the execution terminates.

If code is flawless the app is launched on the device.

#### Add XML files, JAVA files

#### #QuestionActivity.java

```
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
public class QuestionsActivity extends
AppCompatActivity {
    TextView tv;
    Button submitbutton, quitbutton;
    RadioGroup radio q;
    RadioButton rb1,rb2,rb3,rb4;
    String questions[] = {
                            "Which method can be
defined only once in a program?",
                            "Which of these is not a
bitwise operator?",
                            "Which keyword is used by
method to refer to the object that invoked it?",
                            "Which of these keywords
is used to define interfaces in Java?",
                            "Which of these access
specifiers can be used for an interface?",
                            "Which of the following is
correct way of importing an entire package 'pkg'?",
                            "What is the return type
of Constructors?",
                            "Which of the following
package stores all the standard java classes?",
                            "Which of these method of
class String is used to compare two String objects for
their equality?",
                            "An expression involving
```

```
byte, int, & literal numbers is promoted to which of
these?"
                          };
    String answers[] = {"main
method","<=","this","interface","public","import</pre>
pkq. *", "None of the
mentioned","java","equals()","int"};
    String opt[] = {
                     "finalize method", "main
method", "static method", "private method",
                     "&","&=","|=","<=",
"import", "this", "catch", "abstract",
"Interface", "interface", "intf", "Intf",
"public", "protected", "private", "All of the mentioned",
                     "Import pkg.", "import
pkg.*","Import pkg.*","import pkg.",
                     "int", "float", "void", "None of the
mentioned",
"lang", "java", "util", "java.packages",
"equals()","Equals()","isequal()","Isequal()","
                      "int", "long", "byte", "float"
                    };
    int flag=0;
    public static int marks=0, correct=0, wrong=0;
    @Override
    protected void onCreate(Bundle savedInstanceState)
{
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity questions);
        final TextView score =
(TextView) findViewById(R.id.textView4);
        TextView
textView= (TextView) findViewById (R.id. DispName);
        Intent intent = getIntent();
        String name= intent.getStringExtra("myname");
        if (name.trim().equals(""))
            textView.setText("Hello User");
        else
        textView.setText("Hello " + name);
```

```
submitbutton=(Button) findViewById(R.id.button3);
quitbutton= (Button) findViewById (R.id.buttonquit);
        tv=(TextView) findViewById(R.id.tvque);
radio g= (RadioGroup) findViewById (R.id.answersgrp);
rb1=(RadioButton) findViewById(R.id.radioButton);
rb2=(RadioButton) findViewById(R.id.radioButton2);
rb3=(RadioButton) findViewById(R.id.radioButton3);
rb4=(RadioButton) findViewById(R.id.radioButton4);
        tv.setText(questions[flag]);
        rb1.setText(opt[0]);
        rb2.setText(opt[1]);
        rb3.setText(opt[2]);
        rb4.setText(opt[3]);
        submitbutton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                //int color =
mBackgroundColor.getColor();
                //mLayout.setBackgroundColor(color);
if (radio g.getCheckedRadioButtonId() ==-1)
Toast.makeText(getApplicationContext(), "Please select
one choice", Toast.LENGTH SHORT).show();
                    return;
                RadioButton uans = (RadioButton)
findViewById(radio g.getCheckedRadioButtonId());
                String ansText =
uans.getText().toString();
//
Toast.makeText(getApplicationContext(), ansText,
Toast.LENGTH SHORT).show();
                if (ansText.equals(answers[flag])) {
```

```
correct++;
Toast.makeText(getApplicationContext(), "Correct",
Toast.LENGTH SHORT) .show();
                else {
                    wrong++;
Toast.makeText(getApplicationContext(), "Wrong",
Toast.LENGTH SHORT) .show();
                flag++;
                if (score != null)
                     score.setText(""+correct);
                if (flag<questions.length)</pre>
                     tv.setText(questions[flag]);
                     rb1.setText(opt[flag*4]);
                     rb2.setText(opt[flag*4 +1]);
                     rb3.setText(opt[flag*4 +2]);
                     rb4.setText(opt[flag*4 +3]);
                else
                     marks=correct;
                     Intent in = new
Intent(getApplicationContext(), ResultActivity.class);
                     startActivity(in);
                radio g.clearCheck();
            }
        });
        quitbutton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent=new
Intent(getApplicationContext(), ResultActivity.class);
                startActivity(intent);
        });
    }
```

```
}
#ResultActivity.java
import android.content.Intent:
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle:
import android.view.View;
import android.widget.Button;
import android.widget.QuickContactBadge;
import android.widget.TextView;
import org.w3c.dom.Text;
public class ResultActivity extends AppCompatActivity {
  TextView tv, tv2, tv3;
  Button btnRestart:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity result);
    tv = (TextView)findViewById(R.id.tvres);
    tv2 = (TextView)findViewById(R.id.tvres2);
    tv3 = (TextView)findViewBvId(R.id.tvres3);
    btnRestart = (Button) findViewById(R.id.btnRestart);
    StringBuffer sb = new StringBuffer();
    sb.append("Correct answers: " + QuestionsActivity.correct + "\n");
    StringBuffer sb2 = new StringBuffer();
    sb2.append("Wrong Answers: " + QuestionsActivity.wrong + "\n");
    StringBuffer sb3 = new StringBuffer();
    sb3.append("Final Score: " + QuestionsActivity.correct + "\n");
    tv.setText(sb):
    tv2.setText(sb2);
    tv3.setText(sb3);
    QuestionsActivity.correct=0;
    QuestionsActivity.wrong=0;
    btnRestart.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View v) {
         Intent in = new
```

```
Intent(getApplicationContext(),MainActivity.class);
        startActivity(in);
    });
#Background.java
import android.graphics.Color;
import java.util.Random;
public class BackgroundColor {
  private String[] mColors = {
      "#39add1", // light blue
      "#3079ab", // dark blue
      "#c25975", // mauve
      "#e15258", // red
      "#f9845b", // orange
      "#838cc7", // lavender
      "#7d669e", // purple
      "#53bbb4", // aqua
      "#51b46d", // green
      "#e0ab18", // mustard
      "#637a91", // dark gray
      "#f092b0", // pink
      "#b7c0c7" // light gray}
  };
public int getColor(){
  //Randomly generate a color
  String color;
  Random randomGenerator = new Random();
  int randomNumber = randomGenerator.nextInt(mColors.length);
  color = mColors[randomNumber];
  int colorAsInt;
  colorAsInt = Color.parseColor(color);
  return colorAsInt;
#DeveloperActivity.java
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
```

```
import android.os.Bundle;
import android.view.View:
import android.widget.Button:
public class DeveloperActivity extends AppCompatActivity {
  Button btnRestart:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity developer);
    btnRestart = (Button) findViewById(R.id.button4);
    btnRestart.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        Intent in 2 = new
Intent(getApplicationContext(),MainActivity.class);
        startActivity(in2);
    });
#activity developer.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLavout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout height="match parent"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity_horizontal_margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity vertical margin"
  tools:context="com.example.vikasojha.quizbee.DeveloperActivity">
  <TextView
    android:layout_width="fill_parent"
    android:layout height="wrap content"
    android:textAppearance="'?android:attr/textAppearanceLarge"
    android:text="Developers"
    android:id="@+id/textView2"
```

```
android:layout marginTop="33dp"
  android:textSize="40dp"
  android:layout alignParentTop="true"
  android:textColor="#000000"
  android:textAlignment="center"
  android:layout_alignParentEnd="false"
  android:layout alignParentStart="false"
  android:autoText="true"
  android:layout alignParentRight="false" />
<Button
  android:layout width="match parent"
  android:layout height="wrap content"
  android:text="Back"
  android:id="@+id/button4"
  android:layout_alignParentBottom="true"
  android:layout_alignParentLeft="true"
  android:layout_alignParentStart="true"
  android:layout_marginBottom="31dp"
  android:background="#01579B"
  android:textColor="#ffffff" />
< Image View
  android:id="@+id/imageView"
  android:layout_width="80dp"
  android:layout height="84dp"
  android:layout below="@+id/textView2"
  android:layout alignEnd="@+id/button4"
  android:layout_alignRight="'@+id/button4"
  android:layout marginTop="43dp"
  android:layout marginEnd="299dp"
  android:layout_marginRight="299dp"
  android:src="@drawable/vikas"/>
<TextView
  android:id="@+id/textView5"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout alignTop="@+id/imageView"
  android:layout_alignEnd="@+id/textView7"
  android:layout_alignRight="@+id/textView7"
  android:layout marginTop="8dp"
  android:layout marginEnd="-31dp"
  android:layout_marginRight="-31dp"
  android:text="Vinayak Mathur"
```

android:textAppearance="?android:attr/textAppearanceLarge" />

```
<TextView
    android:id="@+id/textView6"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_below="@+id/textView5"
    android:layout_alignEnd="@+id/textView5"
    android:layout_alignRight="@+id/textView5"
    android:layout marginTop="18dp"
    android:layout_marginEnd="-17dp"
    android:layout_marginRight="-17dp"
    android:text="Vinayak@123.gmail.in"
    android:textAppearance=''?android:attr/textAppearanceMedium'' />
  <TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout below="@+id/imageView"
    android:layout centerHorizontal="true"
    android:layout_marginTop="43dp"
    android:text="text"
    android:textAppearance="?android:attr/textAppearanceLarge" />
  <TextView
    android:id="@+id/textView8"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_below="@+id/textView7"
    android:layout_alignStart="'@+id/textView7"
    android:layout alignLeft="@+id/textView7"
    android:layout_marginStart="-19dp"
    android:layout_marginLeft="-19dp"
    android:layout marginTop="23dp"
    android:text="text"
    android:textAppearance="'?android:attr/textAppearanceMedium" />
</RelativeLayout>
#activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLavout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
android:background="#00BCD4"
android:paddingLeft="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingBottom="@dimen/activity_vertical_margin"
tools:context="com.example.vikasojha.quizbee.MainActivity">
```

#### <TextView

```
android:id="@+id/textView"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignStart="@+id/editName"
android:layout_alignLeft="@+id/editName"
android:layout_alignParentTop="true"
android:layout_marginTop="48dp"
android:text="@string/quizapp"
android:textColor="#F44336"
android:textSize="60dp" />
```

#### <Button

```
android:id="@+id/button"
android:layout_width="200dp"
android:layout_height="52dp"
android:layout_above="@+id/button2"
android:layout_alignStart="@+id/editName"
android:layout_alignLeft="@+id/editName"
android:layout_marginBottom="25dp"
android:background="#29FF22"
android:textColor="#ffffff"
android:textSize="30dp"/>
```

#### <EditText

```
android:id="@+id/editName"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:layout_centerVertical="true"
android:ems="10"
android:hint="Enter your name"
android:inputType="textPersonName"
android:textColor="#df040b"/>
```

#### <Button

```
android:id="@+id/button2"
```

```
android:layout width="200dp"
    android:layout_height="52dp"
    android:layout alignStart="@+id/button"
    android:layout alignLeft="@+id/button"
    android:layout alignParentBottom="true"
    android:layout marginBottom="33dp"
    android:background="#01579B"
    android:text="About"
    android:textColor="#ffffff"
    android:textSize="30dp" />
</RelativeLayout>
#activity_question.xml
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  android:paddingBottom="@dimen/activity vertical margin"
  android:paddingLeft="@dimen/activity horizontal margin"
  android:paddingRight="@dimen/activity horizontal margin"
  android:paddingTop="@dimen/activity vertical margin"
  tools:context="com.example.vikasojha.quizbee.OuestionsActivity">
  <TextView
    android:layout_width="200dp"
    android:layout height="wrap content"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:id="@+id/DispName"
    android:textColor="@color/accent material light"
    android:layout alignParentTop="true"
    android:layout alignParentLeft="true"
    android:layout_alignParentStart="true" />
  < Radio Group
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:lavout alignLeft="@+id/DispName"
    android:layout alignStart="@+id/DispName"
    android:id="@+id/answersgrp"
    android:clickable="true"
    android:layout centerVertical="true">
```

```
<!--android:layout-->
<!--android:checkedButton=''@+id/radioButton''-->
```

#### < Radio Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="A"
android:id="@+id/radioButton"
android:checked="false"
/>
```

#### < Radio Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="B"
android:id="@+id/radioButton2"
android:checked="false"/>
```

#### < Radio Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="C"
android:id="@+id/radioButton3"
android:checked="false"/>
```

#### < Radio Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="D"
android:id="@+id/radioButton4"
android:checked="false"/>
```

### </RadioGroup>

#### <Button

```
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Next Question"
android:id="@+id/button3"
android:layout_marginTop="27dp"
android:layout_below="@+id/answersgrp"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"
android:background="#FF5722"
android:textColor="#ffffff"/>
```

```
<Button
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Ouit"
    android:id="@+id/buttonquit"
    android:layout_marginTop="20dp"
    android:layout_below="@+id/button3"
    android:layout alignParentRight="true"
    android:layout alignParentEnd="true"
    android:background="#01579B"
    android:textColor="#ffffff" />
  <TextView
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:text="Questions"
    android:id="@+id/tvque"
    android:layout marginBottom="52dp"
    android:layout_above="@+id/answersgrp"
    android:layout alignParentLeft="true"
    android:layout_alignParentStart="true" />
  <TextView
    android:layout width="wrap content"
    android:layout_height="24dp"
android:textAppearance="@color/abc background cache hint selector m
aterial dark"
    android:text="Your Score"
    android:id="@+id/textView3"
    android:textColor="#000000"
    android:textSize="19dp"
    android:layout alignParentBottom="true"
    android:layout_alignParentLeft="true"/>
  <TextView
    android:layout_width="wrap_content"
    android:layout height="24dp"
android:textAppearance="@color/abc background cache hint selector m
aterial dark"
    android:id="@+id/textView4"
    android:text="0"
    android:textColor="#000000"
    android:layout_alignParentBottom="true"
```

```
android:textAlignment="center"
    android:layout_alignParentRight="true"
    android:textSize="19dp" />
</RelativeLayout>
#activity_result
<?xml version="1.0" encoding="utf-8"?>
< Relative Layout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout_height="match_parent"
  android:paddingBottom="@dimen/activity_vertical_margin"
  android:paddingLeft="@dimen/activity horizontal margin"
  android:paddingRight="@dimen/activity_horizontal_margin"
  android:paddingTop="@dimen/activity vertical margin"
  tools:context="com.example.vikasojha.quizbee.ResultActivity">
  <TextView
    android:layout width="wrap content"
    android:layout height="28dp"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:text="Large Text"
    android:id="@+id/tvres"
    android:layout alignParentTop="true"
    android:layout centerHorizontal="true"
    android:layout marginTop="70dp"
    android:layout alignParentEnd="true"
    android:layout alignParentStart="true"
    android:background="#F44336"
    android:textColor="#000000"
    android:textAlignment="center"
    android:textSize="19dp" />
  <Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Restart"
    android:id="@+id/btnRestart"
    android:layout alignParentBottom="true"
    android:layout marginBottom="119dp"
    android:layout_alignParentLeft="true"
    android:layout alignParentStart="true"
    android:background="#01579B"
```

```
<TextView
```

```
android:layout_height="28dp"
android:textAppearance="?android:attr/textAppearanceLarge"
android:text="Large Text"
android:id="@+id/tvres2"
android:background="#76FF03"
android:layout_below="@+id/tvres"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"
android:layout_marginTop="31dp"
android:layout_alignParentEnd="true"
android:layout_alignParentEnd="true"
android:textColor="#000000"
android:textAlignment="center"
android:textSize="19dp" />
```

#### <TextView

```
android:layout_width="wrap_content"
    android:layout height="28dp"
    android:textAppearance="?android:attr/textAppearanceLarge"
    android:text="Large Text"
    android:id="@+id/tvres3"
    android:background="#FFEB3B"
    android:layout_below="@+id/tvres2"
    android:layout marginTop="33dp"
    android:layout_alignRight="@+id/tvres2"
    android:layout_alignEnd="@+id/tvres2"
    android:layout alignParentEnd="true"
    android:layout_alignParentStart="true"
    android:textColor="#000000"
    android:textAlignment="center"
    android:textSize="19dp" />
</RelativeLayout>
```

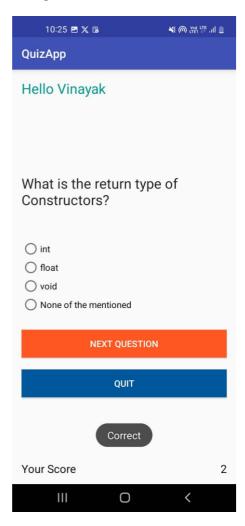
Results: The resultant is a functional quiz app which shows score and has 10 questions to be evaluated from.

• <Start-up page>



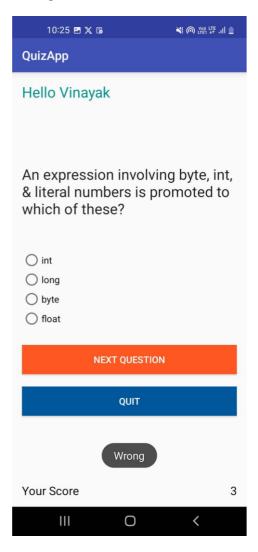
This is the startup page after the app is launched

# • < Question 1>



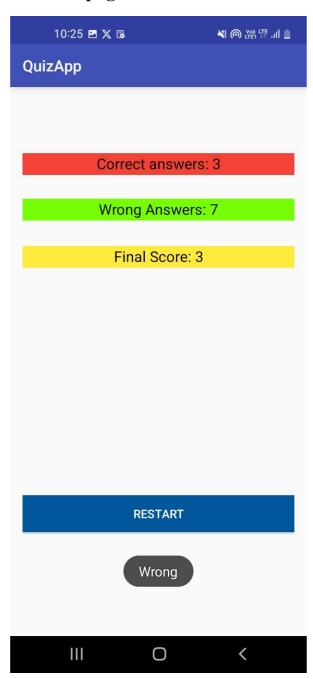
This is a question which is  $1\ of\ 10$  this is how the layout and interactive it feels

# • < Question>

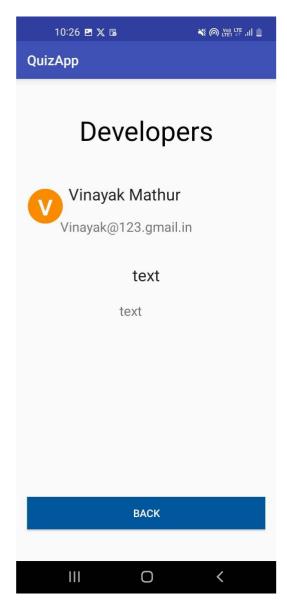


Another question also showcasing the current score and also pop-ups

# • < Final page>



### • < About page>



This is the about page it gives the details about the creator of the app.

#### Chapter 5

#### **Conclusion:**

The 'MCQ Quiz Application' project is been developed to overcome the time-consuming problem of manual system. Apart from that in current system, checking the answer sheets after taking test, waste the examiners time, so this application will check the correct answer and save the examiner's time and carry the examination in an effective manner.

The project is based on java programming language which is in tune with respective xml files and this also means that they are producing a satisfactory result which in turn is a success of the project

The quiz aims to expand horizons of all likeminded and prodigy's

It will expand to how it has been created and hoes does it undertake commands and displays the result.

Thanking you