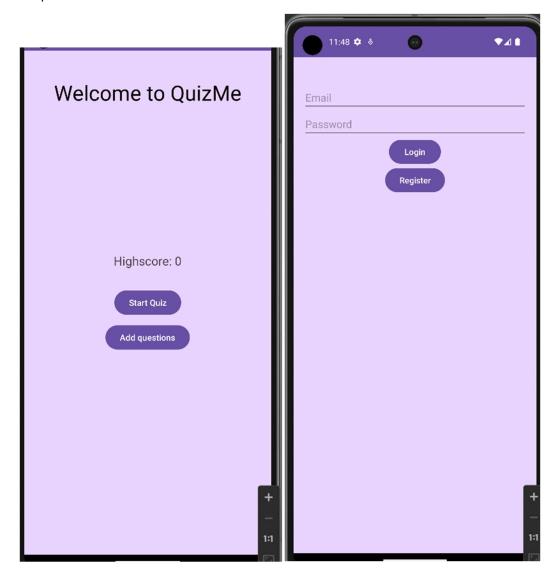
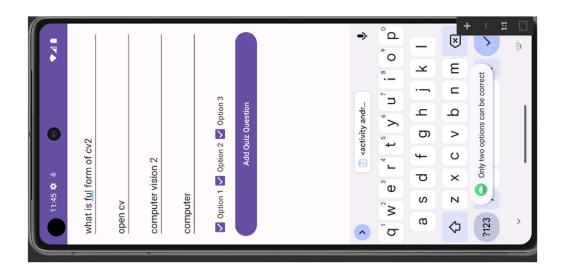
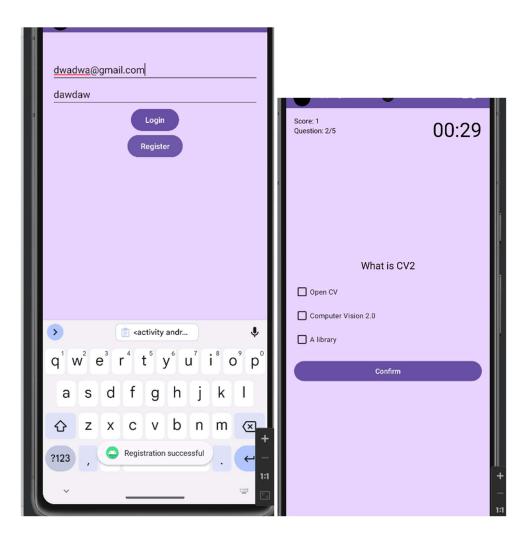
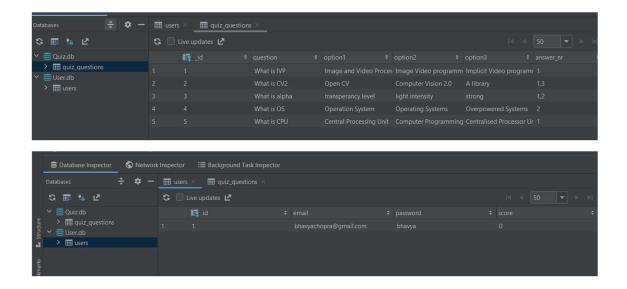
Outputs –



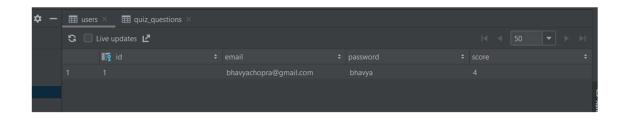




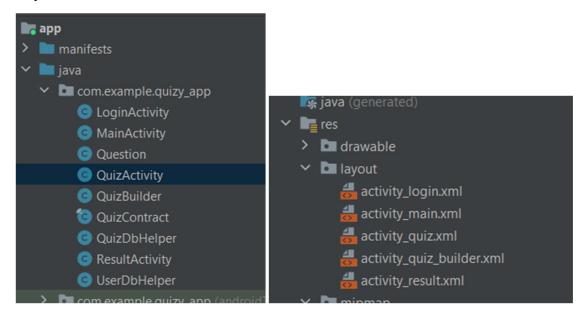


After Playing -





Project Structure -



Android Manifest.xml -

```
</activity>
  </application>
</manifest>
```

LoginActivity.java -

```
if (userDbHelper.checkCredentials(email, password)) {
```

```
// Check if the email already exists in the user database
if (userDbHelper.checkEmailExists(email)) {
        Toast.makeText(this, "Email already registered. Please log
in.", Toast.LENGTH_SHORT).show();
    } else {
        // Email is not registered, so insert the new user into the
user database
        if (userDbHelper.insertUser(email, password)) {
            Toast.makeText(this, "Registration successful",

Toast.LENGTH_SHORT).show();
        } else {
            Toast.makeText(this, "Registration failed. Please try
again.", Toast.LENGTH_SHORT).show();
        }
    }
}
```

MainActivity.java -

```
public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
   public void goToQuizBuilder(View view) {
```

```
private void updateHighScoreText() {
    // Fetch the highest score from the user database
    int highestScore = userDbHelper.getHighestScore();
    highScoreTextView.setText("Highscore: " + highestScore);
}
```

Question.java -

```
public void setQuestion(String question) {
public String getOption1() {
public void setOption1(String option1) {
public String getOption2() {
```

```
public String getOption3() {
    return option3;
}

public void setOption3(String option3) {
    this.option3 = option3;
}

public List<Integer> getAnswerNrs() {
    return answerNrs;
}

public void setAnswerNrs(List<Integer> answerNrs) {
    this.answerNrs = answerNrs;
}
```

QuizActivity.java -

```
package com.example.quizy_app;
```

```
protected void onCreate(Bundle savedInstanceState) {
private void updateQuestionCount() {
        public void onTick(long millisUntilFinished) {
```

```
private void updateCountdownText() {
   countdownTextView.setText(timeLeftFormatted);
   startActivity(intent);
```

```
finish();
}

private void handleTimeUp() {
    checkboxOption1.setChecked(false);
    checkboxOption2.setChecked(false);
    checkboxOption3.setChecked(false);
    showNextQuestion();
}

@Override
public void onBackPressed() {
    super.onBackPressed();
}
```

QuizBuilder.java -

```
package com.example.quizy app;
   protected void onCreate(Bundle savedInstanceState) {
```

```
dbHelper.insertQuestion(dbHelper.getWritableDatabase(), guestion, option1,
option2, option3, dbHelper.convertListToString(correctOptions));
                clearFields();
```

```
}
}
```

QuizContract.java -

```
package com.example.quizy_app;
import android.provider.BaseColumns;

public final class QuizContract {
    private QuizContract() {
    }

    public static class QuestionsTable implements BaseColumns {
        public static final String TABLE_NAME = "quiz_questions";
        public static final String COLUMN_QUESTION = "question";
        public static final String COLUMN_OPTION1 = "option1";
        public static final String COLUMN_OPTION2 = "option2";
        public static final String COLUMN_OPTION3 = "option3";
        public static final String COLUMN_ANSWER_NR = "answer_nr";
    }
}
```

QuizDbHelper.java

```
public void onUpgrade (SQLiteDatabase db, int oldVersion, int
   Cursor cursor = db.rawQuery("SELECT * FROM " +
    if (cursor.moveToFirst()) {
```

```
String convertListToString(List<Integer> list) {
    StringBuilder sb = new StringBuilder();
    for (Integer item : list) {
        sb.append(item);
        sb.append(",");
    }
    sb.setLength(sb.length() - 1); // Remove the trailing comma return sb.toString();
}

private List<Integer> convertStringToList(String str) {
    List<Integer> list = new ArrayList<>();
    String[] items = str.split(",");
    for (String item : items) {
        list.add(Integer.parseInt(item));
    }
    return list;
}
```

ResultActivity.java -

```
public class ResultActivity extends AppCompatActivity {
   private void updateUserHighScore(String email, int score) {
```

```
if (score > highestScore) {
          dbHelper.updateUserScore(email, score);
          Toast.makeText(this, "New highest score!",

Toast.LENGTH_SHORT).show();
     }
}
```

UserDbHelper.java -

```
public void onUpgrade(SQLiteDatabase db, int oldVersion, int
```

```
values.put(COLUMN PASSWORD, password);
   return emailExists;
public int getHighestScoreFor(String userEmail) {
```

```
public void updateUserScore(String userEmail, int newScore) {
```

Activity_login.xml -

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:tools="http://schemas.android.com/tools"
    android:background="@color/colorBackground"
    android:padding="16dp"
    tools:context="com.example.quizy_app.LoginActivity">>

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:hint="Email"
    android:layout_marginTop="30dp" />

<EditText
    android:id="@+id/editTextPassword"
    android:layout_width="match_parent"</pre>
```

```
android:layout_height="wrap_content"
android:layout_below="@id/editTextEmail"
android:layout_centerHorizontal="true"
android:hint="Password" />

<Button
    android:id="@+id/buttonLogin"
    android:layout_width="wrap_content"
    android:layout_below="@id/editTextPassword"
    android:layout_below="@id/editTextPassword"
    android:text="Login"
    android:onClick="login" />

<Button
    android:id="@+id/buttonRegister"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/buttonLogin"
    android:layout_centerHorizontal="true"
    android:layout_centerHorizontal="true"
    android:text="Register"
    android:conClick="register" />

</RelativeLayout>
```

Activity main.xml -

```
android:text="Start Quiz"
android:onClick="startQuiz" />

<Button
    android:id="@+id/button add"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/button_start_quiz"
    android:layout_marginTop="10dp"
    android:text="Add questions"
    android:layout_centerHorizontal="true"
    android:onClick="goToQuizBuilder" />
</RelativeLayout>
```

Activity_quiz.xml -

```
</RelativeLavout>
```

Activity_quiz_builder.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp"
    tools:context=".QuizBuilder">

<EditText
          android:layout_width="match_parent"
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
          android:layout_height="wrap_content"
          android:inputType="text"
          android:layout_marginBottom="16dp"/>
```

```
android:text="Option 2"/>
           android:text="Option 3"/>
</LinearLayout>
```

```
<?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="@color/colorBackground"
    android:padding="16dp"
    tools:context="com.example.quizy_app.ResultActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:text="Your Score: 0"
        android:textSize="24sp"
        android:textColor="@android:color/black" />

</RelativeLayout>
```

Github -

https://github.com/bhavyachopra99/MAD_Quizapp