

رقم البحث هو : 01201

عنوان المقالة : Bank of Questions : Project 1

أسم المقرر ورقمه : 310 comp – adv. Web

المستوى / الفرقة : الثالث

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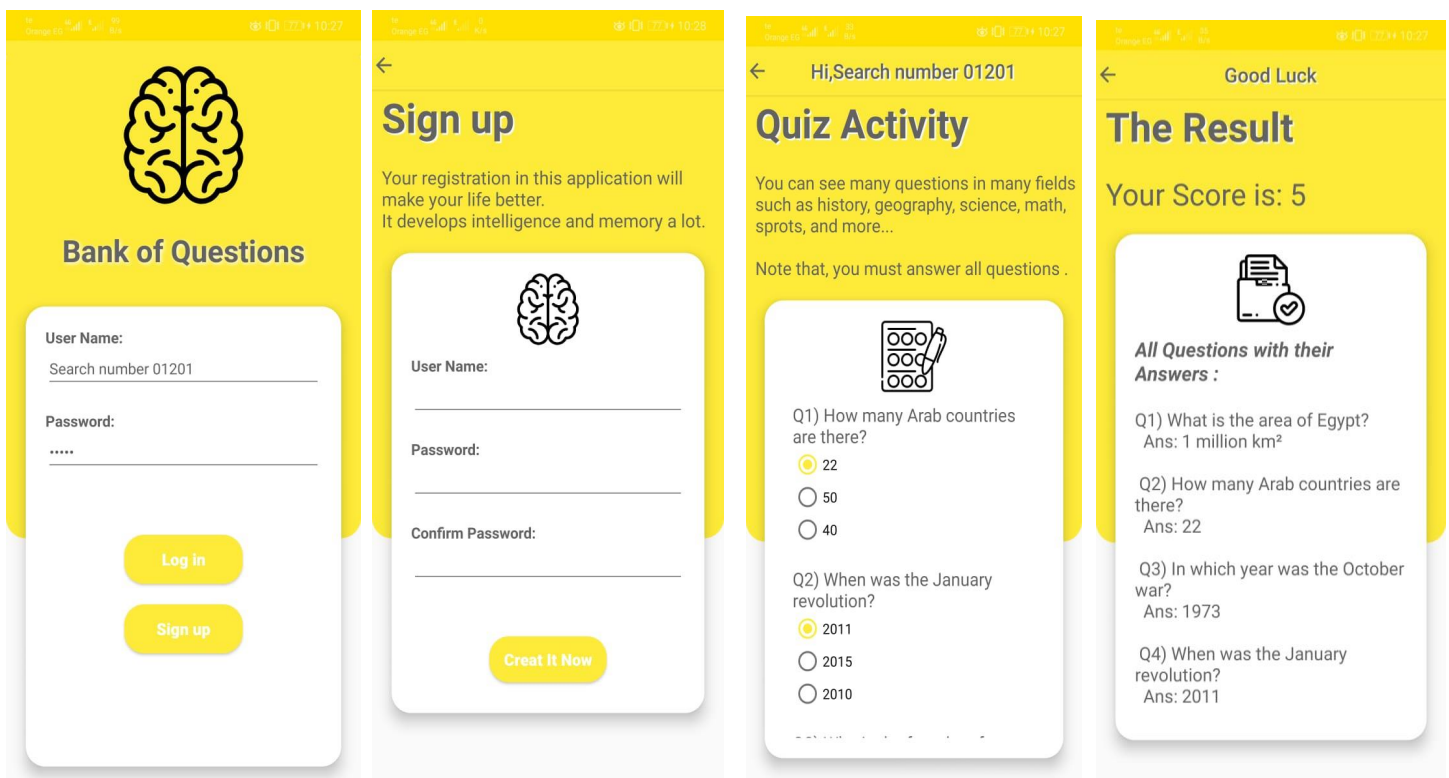
## An Introduction:

In this project we will know how to make a simple application of the idea of simple questions in different fields and present the test results.

## Construction steps:

In the beginning , I looked at some designs from different sites , including them (s.1) , and learned how to make a simple design in an uncomplicated way from scratch from some videos on YouTube and sites, I also learned how to do what is called a "card view" to give it a more beautiful look and design (s.3).

I have used some sites in addition to the lectures that helped me in solving the problems that faced me in writing the code . (s.4 , s.5)



### Explain some common parts:

I created a common background in the application for use in the buttons and some layouts by using (colors.xml) which in (res→values).

Its code:

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#FFEB3B</color>
    <color name="colorPrimaryDark">#FFE000</color>
    <color name="colorAccent">#FFEB3B</color>
</resources>
```

And I use cardview Which gives me more beautiful design. (s.3)

So, I implement it by putting

```
implementation"androidx.cardview:cardview:1.0.0"
```

in (dependencies) which into→(Gradle Scripts →build.gradle(Module:app))

## **The User Interface (UI):**

We will start with a first explanation of activities, which is (MainActivity), which contains the user name, password, and buttons for moving to another (activity), and it is the QuizActivity or the creation of a new account (signupActivity).

I put my search number in (textView) to log in directly as shown in (f.1).

**Note :This drawing was used from a site (s.2)**

**It is of type icon.**



**-if** you put a wrong name there is a (Toast) alarm you that :

This name does not exist.

**-if** you put right name and wrong password there is also

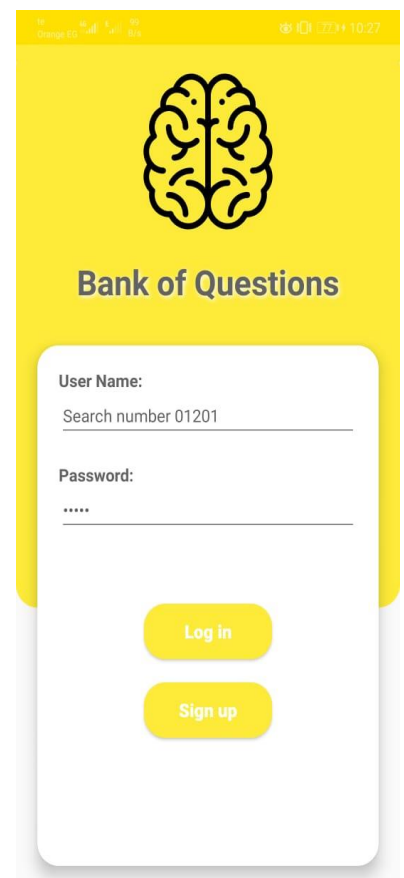
a (Toast) alarm you that : the password is incorrect.

You can go to the account creation page by clicking on sign up button which will store your data in arraylist.

**Note:** There is a notification that should appear welcome you

But it does not work, I tried to solve it with several ways by using class for it , but I could not find a solution . So, I white the code of it in a comment. (s.7)

(f.1)



## The Code:

```
Intent intent = new
Intent(getApplicationContext(),quizActivity.class);
intent.putExtra(Intent.EXTRA_TEXT, n);

if(nameArray.indexOf(n) >= 0)
    if(p.equals(passArray.get(nameArray.indexOf(n))))
    {
        startActivity(intent);
    }
    else
        Toast.makeText(MainActivity.this, "The password is
            incorrect", Toast.LENGTH_SHORT).show();
else
    Toast.makeText(MainActivity.this, "Name not found,
        create an account!", Toast.LENGTH_SHORT).show();
```

```
//-----an intent for sign_up_activity---

signup_button = findViewById(R.id.signup_button);
signup_button.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        Intent intent = new
        Intent(getApplicationContext(),signUpActivity.class);
        startActivity(intent);
    }
});
```

**Note :** This is not the whole code in (MainActivity.java) , But only the most important functions on it.

## sginUpActivity:

In this page there is username , password , confirmation of password and back button which allow you to back to (mainActivity) as shown in (f.2).

This page enable you to create a new account with out repetition and password.

-If you enter a repeated name there is a (Toast) alarm you that:

You had enter a repeated name .

-if you enter a password and your confirmation password does not match ,

There is a (Toast) alarm you the password does not match .

**(f.2)**

**So,** if you want to create an correct account , enter a unique

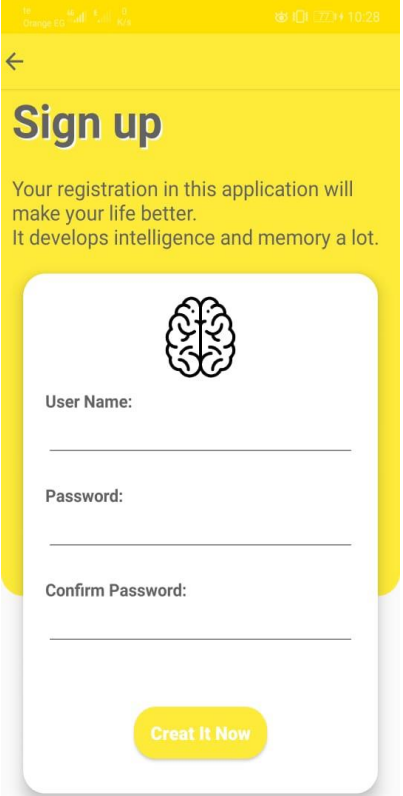
Name and password and enable you to go to the third

Activity (quizActivity) with you name as a data transfer,

By using (Intent) feature.

**Note:** There is also notification that should appear welcome

You , But it does not work, As I explained above.



## The code:

```
public void creatAccountFunction(View view) {

    String n1 = userName_edittext_id.getText().toString();
    String s1 = password_edittext_id.getText().toString();
    String s2 = password_edittext_id.getText().toString();

    //-----create a new account part-----
    if(n1.isEmpty())
        Toast.makeText(this, "Enter your name !",
                        Toast.LENGTH_SHORT).show();
    else if (MainActivity.nameArray.indexOf(n1) >= 0)
        Toast.makeText(this, "This name is a duplicate!",
                        Toast.LENGTH_SHORT).show();
    else if(s1.isEmpty() || s2.isEmpty())
    {
        Toast.makeText(this, "Enter a Password !",
                        Toast.LENGTH_SHORT).show();
    }
    else if (s1.equals(s2))
    {
        MainActivity.nameArray.add(n1);
        MainActivity.passArray.add(s1);

        Intent intent = new
        Intent(getApplicationContext(),quizActivity.class);
        intent.putExtra(Intent.EXTRA_TEXT, n1);

        startActivity(intent);
    }
    else
        Toast.makeText(this, "Password does not match !",
                        Toast.LENGTH_SHORT).show();
}

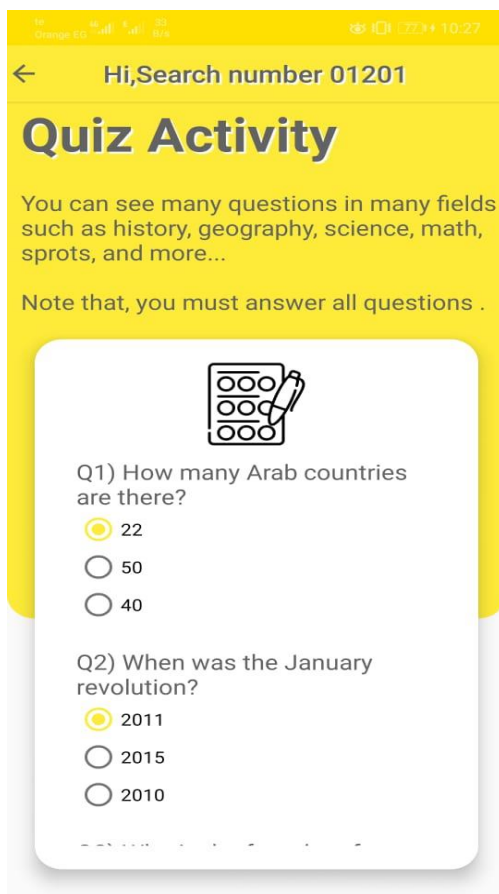
public void back_button_function(View view) {
    Intent intent = new
    Intent(getApplicationContext(),MainActivity.class);
    startActivity(intent);
}
```

## questionActivity:

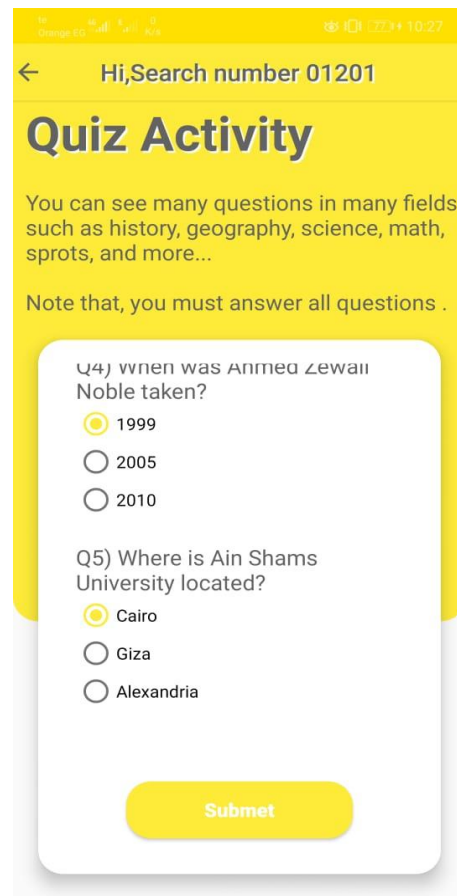
Now, we will look at the third (Activity), which is (questionActivity), which contains 5 questions randomly chosen from a group of questions. (f.3 , f.4 )

That is mean, when you enter each time, the questions that will be presented to you will be different , It also contains the name of the user at the top using the feature of (intent) , as shown in (f.3) , (f.4).

**Note,** the results will not be shown to you unless you answer all questions , and all the questions and the submit button appear in cardview which I learn how to do it from some tutorials on you tube and some websites one of them. (s.3)



(f.3)



(f.4)



## The code:

I create a button to go back to the mainActivity by using click listener:

```
Intent intent = new  
Intent(getApplicationContext(), MainActivity.class);  
startActivity(intent);
```

and I use getIntent to get the name of the user .

and get some variables to put random numbers on it to make us enable to choose a random questions , and stored the questions and there answers in arraylists.

And use a code to insert random questions in the (textview) .

```
String ss = bank_Of_Questions_Array.get(a1);  
t1.setText("Q1) " + ss);  
if(a1 == 0) {  
    rb1_1.setText(choices_Array.get(a1));  
    rb1_2.setText(choices_Array.get(a1+1));  
    rb1_3.setText(choices_Array.get(a1+2));  
}else{  
    a1 *= 3;  
    rb1_1.setText(choices_Array.get(a1));  
    rb1_2.setText(choices_Array.get(a1+1));  
    rb1_3.setText(choices_Array.get(a1+2));  
}
```

And calculate the score for the user.

Finally, the app start the intent If all questions are answered , if not there is a (toast)  
show you to answer all the questions .

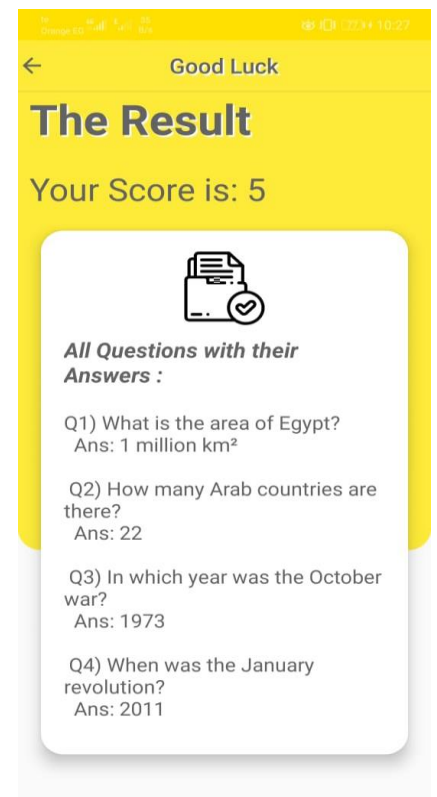
### scoreActivity:

Finally, it will show the results on the last page, and it will also display all questions (all bank of questions) with their answers, which I store it in an ArrayList of type String to make it easy to get .

**And** your score of your answers in quizActivity will be put (f.5) by using (Intent) feature .

And also contain a back button which make you go back to The mainActivity by pressing or clicking it as shown in the figure (f.5).

**Note:** There is also notification that should appear to show Your score , But it does not work, As I explained above.



**by that :** we have discussed the all four activities, that app contains.

## The Code:

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_score);

    //-----geting score partion-----
    textView_score_id = (TextView)
        findViewById(R.id.textview_score_id);
    Intent intent = getIntent();
    String above_username = "Your Score is:" +
        intent.getStringExtra(Intent.EXTRA_TEXT);
    textView_score_id.setText(above_username);

    //show all questios and thir answers partion---
    textView_2 = (TextView)
        findViewById(R.id.textview_2);
    for(int i = 0 ; i <= 9 ; i++)
    {
        textView_2.append("Q" + (i+1) + ") " +
            quizActivity.bank_Of_Questions_Array.get(i) + " \n " +
            " Ans: " + quizActivity.answers_Array.get(i) + " \n\n "
        );
    }
}

//-----
public void back_button_function(View view) {
    back_button = (Button)
        findViewById(R.id.back_button_id);
    Intent intent = new
    Intent(getApplicationContext(), MainActivity.class);
    startActivity(intent);
}
```

### **summary:**

I have used in this app ArrayList to store the data of user (username , password), intent to transfer data between activities and notifications (it did not work ,but I write the code in comment with variables) and alarms.

**Thank you very much for your efforts in the educational field and its publication.**

### **Sources or Bibliography:**

(s.1) [www.pinterest.com](http://www.pinterest.com) / [www.dribbble.com](http://www.dribbble.com)

(s.2) [www.flaticon.com](http://www.flaticon.com)

(s.3) card view: <https://guides.codepath.com/android/using-the-cardview>

(s.4) [www.stackoverflow.com](http://www.stackoverflow.com)

(s.5) [www.developer.android.com](http://www.developer.android.com)

(s.6) <https://guides.codepath.com/android/using-the-cardview>

(s.7) <https://youtu.be/tTbd1Mfi-Sk>