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Batch: Q-10

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Assignment no : 2

Problem Statement : Android UI Design: Design a User Interface using pre- built UI components such as structured layout objects, UI controls and special interfaces such as dialogs, notifications, and menus. Also, make this UI attractive using Android graphics platform OpenGL.

CODE :

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.app_1">

    <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/AppTheme">

        <activity
            android:name=".Second"
            android:label="@string/title_activity_second"
            android:theme="@style/AppTheme.NoActionBar" />
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name"
            android:theme="@style/AppTheme.NoActionBar">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

    <uses-permission android:name="android.permission.INTERNET" />

</manifest>
```

MainActivity.java

```
package com.example.app_1;

import android.content.Intent;
import android.graphics.Color;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    private EditText username,password;
    private Button loginButton;

    private int loginAttempts = 3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        username = findViewById(R.id.editText);
        password = findViewById(R.id.editText2);
        loginButton = findViewById(R.id.button);
        loginButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(loginAttempts == 0) {
                    return;
                }

                if (username.getText().toString().equals("scarecrow") &&
password.getText().toString().equals("scarecrow")) {
                    loginAttempts = 3;
                    String toastMessage = "Login successful !";
                    Toast.makeText(getApplicationContext(), toastMessage,
Toast.LENGTH_SHORT).show();
                    startActivity(new Intent(MainActivity.this, Second.class));
                } else {
                    loginAttempts--;
                    if(loginAttempts == 0) {
                        loginButton.setEnabled(false);
                        loginButton.setBackgroundColor(Color.WHITE);
                        Toast.makeText(MainActivity.this, "Your attempt reach
0, please try restarting the app.", Toast.LENGTH_SHORT).show();
                    }
                    String toastMessage = "Please try again ! Attempts
```

```

remaining : "+ loginAttempts;
            Toast.makeText(getApplicationContext(), toastMessage,
Toast.LENGTH_SHORT).show();
        }
    }
    });
}
}

```

Second.java

```

package com.example.app_1;

import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;

public class Second extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Toolbar toolbar = findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
    }
}

```

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

    <android.support.design.widget.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/AppTheme.AppBarOverlay">

        <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"

```

```

        android:background="?attr/colorPrimary"
        app:popupTheme="@style/AppTheme.PopupOverlay" />

</android.support.design.widget.AppBarLayout>

<include
    layout="@layout/content_main"
    tools:layout_editor_absoluteX="0dp"
    tools:layout_editor_absoluteY="0dp" />

</android.support.constraint.ConstraintLayout>

```

activity_second.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
    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=".Second">

    <android.support.design.widget.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/AppTheme.AppBarOverlay">

        <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay" />

    </android.support.design.widget.AppBarLayout>

    <include layout="@layout/content_second" />

</android.support.design.widget.CoordinatorLayout>

```

OUTPUT :



