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HOMEWORK 4

Create an app that showcases different types of layouts:

- In the main activity, add three buttons.
- Button-1: on click, it should start another activity with a linear layout as shown.
- Button-2: on click, it should start another activity with a table layout as shown.
- Button-3: on click, it should start another activity with a relative layout as shown.

= I have created a screen with three buttons first which is linear layout second is table layout which has username, password and log in with remember password and the third screen which is relative layout with comments and save.

In layout: LinearLayoutActivity.java this code displays a layout defined in activity\_linear\_layout.xml. It contains two buttons, and when each button is clicked, it starts a new activity (TableLayoutActivity or RelativeLayoutActivity) using intents.

Two buttons (button2 and button3) are initialized by finding them in the layout using their respective IDs (R.id. button2 and R.id. button3).

```
Button button2 = findViewById(R.id.button2);  
Button button3 = findViewById(R.id.button3);
```

Click listeners are set for both buttons. When button2 is clicked, it creates an Intent to start the TableLayoutActivity. Similarly, when button3 is clicked, it creates an Intent to start the RelativeLayoutActivity. The startActivity method is then called to navigate to the respective activities.

```
button2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        Intent intent = new Intent(LinearLayoutActivity.this, TableLayoutActivity.class);  
        startActivity(intent);  
    }  
});  
  
button3.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        Intent intent = new Intent(LinearLayoutActivity.this, RelativeLayoutActivity.class);  
        startActivity(intent);  
    }  
});
```

In layout: TableLayoutActivity.java this code has a user name and password where you can fill in the data it also has a data saved when u click remember password and has a login button.

The onCreate method is overridden, which is called when the activity is first created. It sets the content view to the layout defined in activity\_table\_layout.xml.

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_table_layout);
}
```

In layout: RelativeLayoutActivity.java this code has a comments section where you can add a comment and consists of save and cancel button.

The necessary Android classes are imported, including Bundle for passing data between activities and AppCompatActivity as the base class for activities.

```
import android.os.Bundle;
import androidx.appcompat.app.AppCompatActivity;
```

This class, RelativeLayoutActivity, extends AppCompatActivity, indicating that it represents an activity in the Android application.

```
public class RelativeLayoutActivity extends AppCompatActivity {
```

The onCreate method is overridden, which is called when the activity is first created. It sets the content view to the layout defined in activity\_relative\_layout.xml.

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_relative_layout);
}
```

First Screen Linear layout



Text 1

Text 2

Text 3

BUTTON 1

BUTTON 2

BUTTON 3

# Linear Layout



## Second Screen Table layout



User Name

---

Password

---

☐ Remember Password

LOG IN

# Table Layout



Third Screen Relative layout



CANCEL

SAVE

# Relative Layout

