

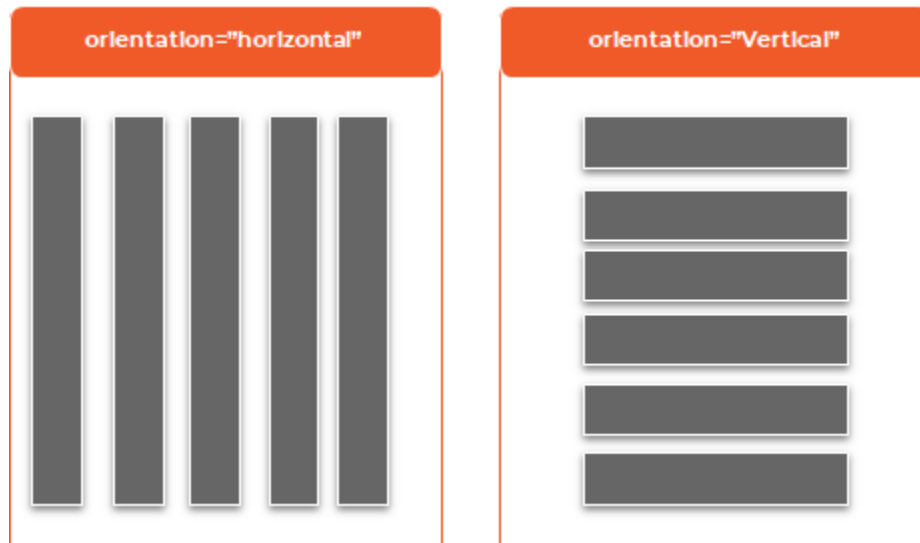
Lab 3: Android LinearLayout

Introduction

Linear Layout is used to align the children in vertical or horizontal manner.

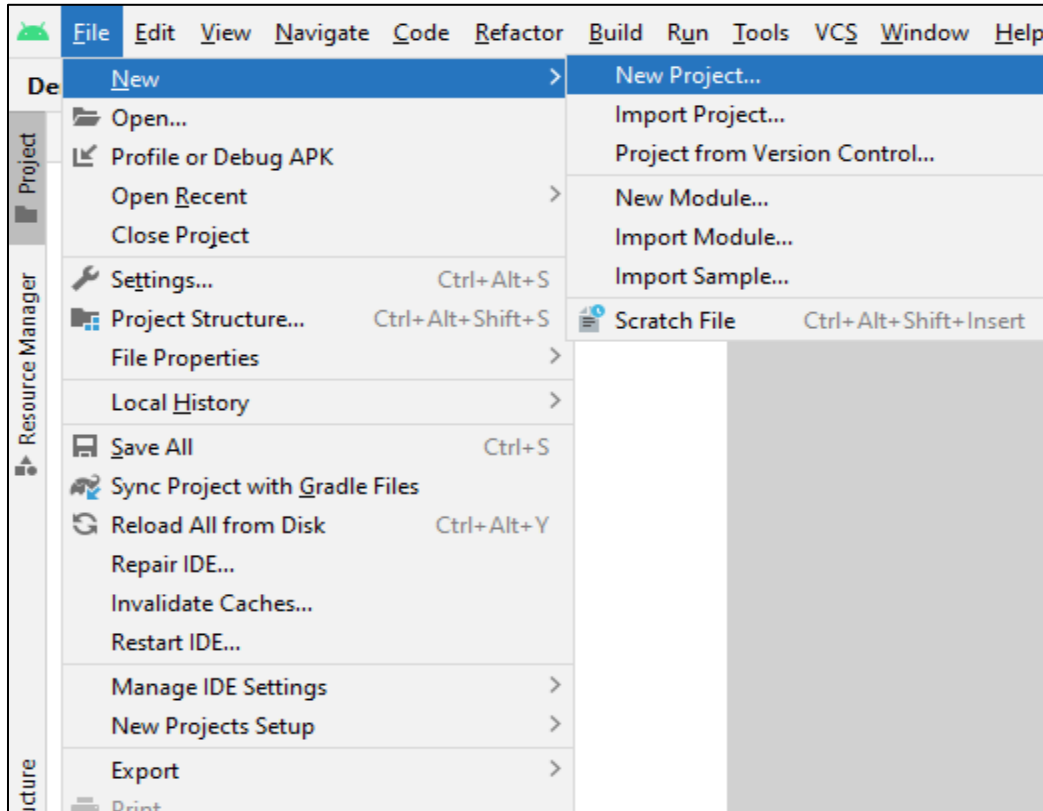
Attributes of Linear Layout

Name of the Attribute	Specification
id	Used for unique identification
baselineAligned	It has true or false value and used for controlling baseline view.
baselineAlignedChildIndex	It specify the child for base.
divider	This is used separator between buttons
gravity	Used to specify child position
orientation	This attribute specify the vertical or horizontal placement.
weightSum	Child weight Sum

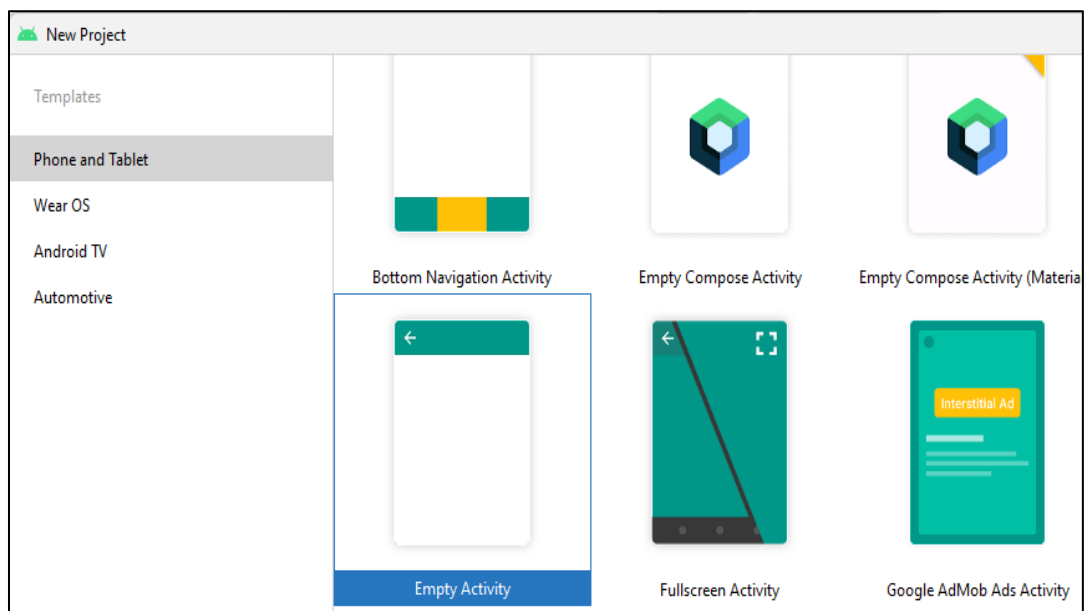


Let's get Started:

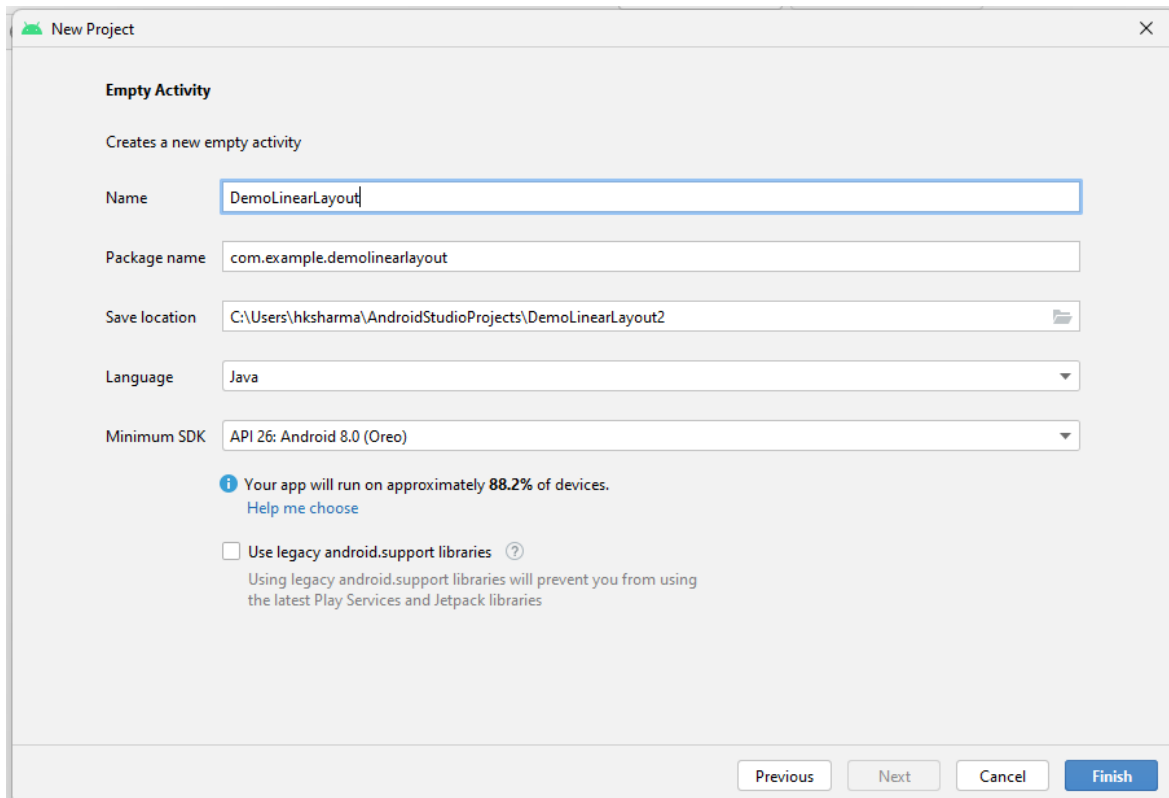
Step 1: Create a New Project in Android Studio as shown below



Step 2: Select Empty Activity as shown below



Step 3: Provide a Project Name as shown below



New Project

Empty Activity

Creates a new empty activity

Name: DemoLinearLayout

Package name: com.example.demolinearlayout

Save location: C:\Users\hksharma\AndroidStudioProjects\DemoLinearLayout2

Language: Java

Minimum SDK: API 26: Android 8.0 (Oreo)

Your app will run on approximately 88.2% of devices.
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☐ Use legacy android.support libraries ?
Using legacy android.support libraries will prevent you from using the latest Play Services and Jetpack libraries

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Step 4: Update MainActivity.java as per the code given below

```
package com.example.demolinearlayout;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

Step 5: Update activity_main.xml for Vertical Orientation as per the code given below

```
<?xml version="1.0" encoding="utf-8" ?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
    <Button android:id="@+id/btn1"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
```

```

        android:text="Click Button 1"/>

<Button android:id="@+id/btn2"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:text="Click Button 2"/>

<Button android:id="@+id/btn3"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:text="Click Button 3"/>
<Button android:id="@+id/btn4"
        android:layout_width="300dp"
        android:layout_height="wrap_content"
        android:text="Click Button 4"/>
</LinearLayout>

```

Step 6: Check Output on Android Emulator and it should look like as given below



Step 7: Update activity_main.xml for Horizontal Orientation as per the code given below

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
        android:layout_width="fill_parent"
        android:layout_height="fill_parent"
        android:orientation="horizontal" >

```

```
<Button android:id="@+id/btn1"
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:text="Click Button 1"/>

<Button android:id="@+id/btn2"
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:text="Click Button 2"/>

<Button android:id="@+id/btn3"
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:text="Click Button 3"/>
<Button android:id="@+id/btn4"
        android:layout_width="100dp"
        android:layout_height="wrap_content"
        android:text="Click Button 4"/>
</LinearLayout>
```

Step 8: Check Output on Android Emulator and it should look like as given below



Voila!! We have successfully completed this lab.