

Lab 13: Android Vertical ScrollView

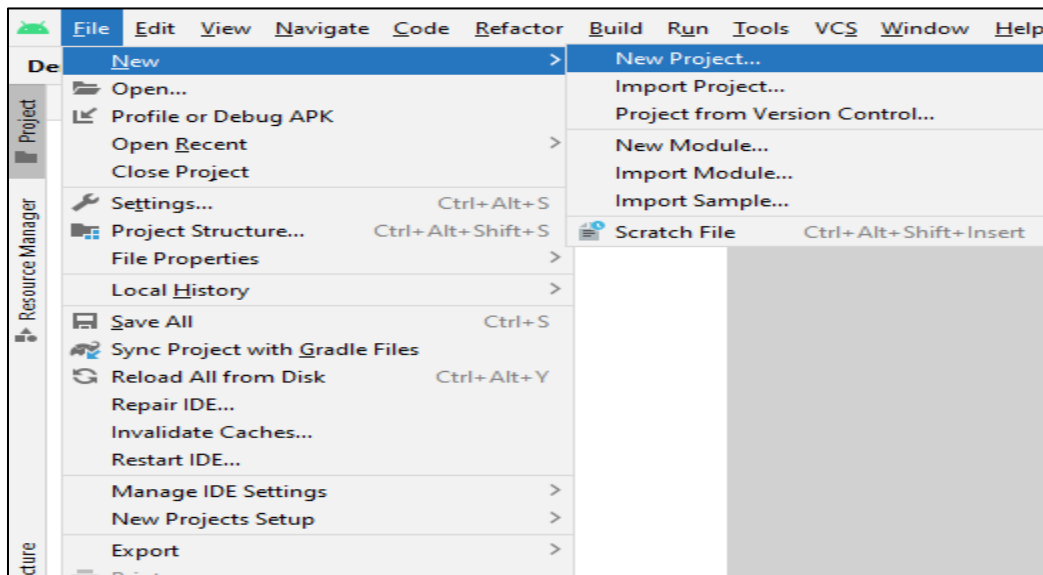
Introduction

The `android.widget.ScrollView` class provides the functionality of scroll view. ScrollView is used to scroll the child elements of the palette inside ScrollView. the default scroll view is vertical scroll view to scroll elements vertically. you may use *HorizontalScrollView* for horizontal ScrollView.

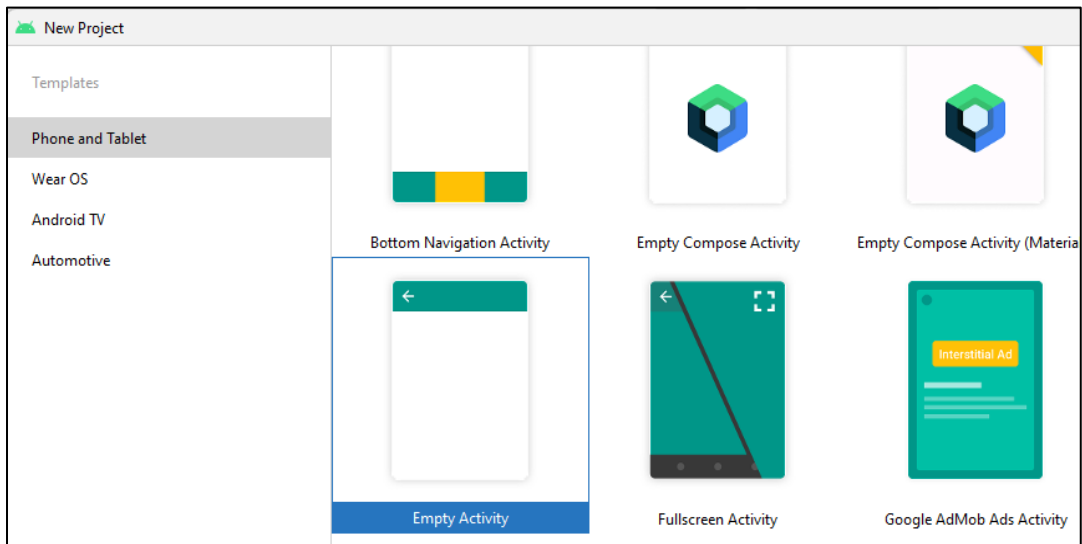
Let's get Started

Here is an exercise demonstrating the development of the following vertical ScrollView.

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

The screenshot shows the 'Empty Activity' configuration screen in Android Studio. The title is 'Empty Activity'. Below it, a subtitle reads 'Creates a new empty activity'. The form contains the following fields and options:

- Name:** DemoScrollView
- Package name:** com.example.demoscrollview
- Save location:** C:\Users\hksharma\AndroidStudioProjects\DemoScrollView
- Language:** Java
- Minimum SDK:** API 26: Android 8.0 (Oreo)

Below the fields, there is an information icon and the text: 'Your app will run on approximately 88.2% of devices. [Help me choose](#)'. There is also a checkbox labeled 'Use legacy android.support libraries' with a question mark icon. Below this checkbox, a note states: 'Using legacy android.support libraries will prevent you from using the latest Play Services and Jetpack libraries'.

At the bottom right, there are four buttons: 'Previous', 'Next', 'Cancel', and 'Finish'.

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

```
package com.example.demoscrollview;
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" ?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceMedium"
        android:text="Android ScrollView Example"
        android:id="@+id/textView"
        android:layout_gravity="center_horizontal"
        android:layout_centerHorizontal="true"
        android:layout_alignParentTop="true" />

    <ScrollView android:layout_marginTop="30dp"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:id="@+id/scrollView">

        <LinearLayout
            android:layout_width="fill_parent"
            android:layout_height="fill_parent"
            android:orientation="vertical" >

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Android ScrollView Example" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Android ScrollView Example" />

            <Button
                android:layout_width="fill_parent"
                android:layout_height="wrap_content"
                android:text="Android ScrollView Example" />

    </ScrollView>

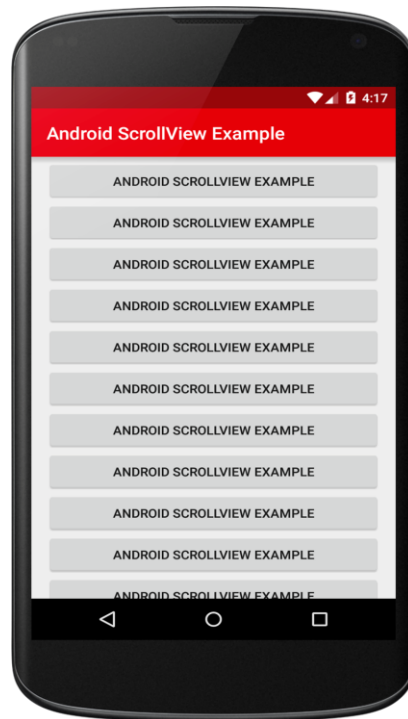
</RelativeLayout>
```

```

<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Android ScrollView Example" />
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Android ScrollView Example" />
<Button
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    android:layout_height="wrap_content"
    android:text="Android ScrollView Example" />
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Android ScrollView Example" />
</LinearLayout>
</ScrollView>
</RelativeLayout>

```

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



Voila!! We have successfully completed this lab.