

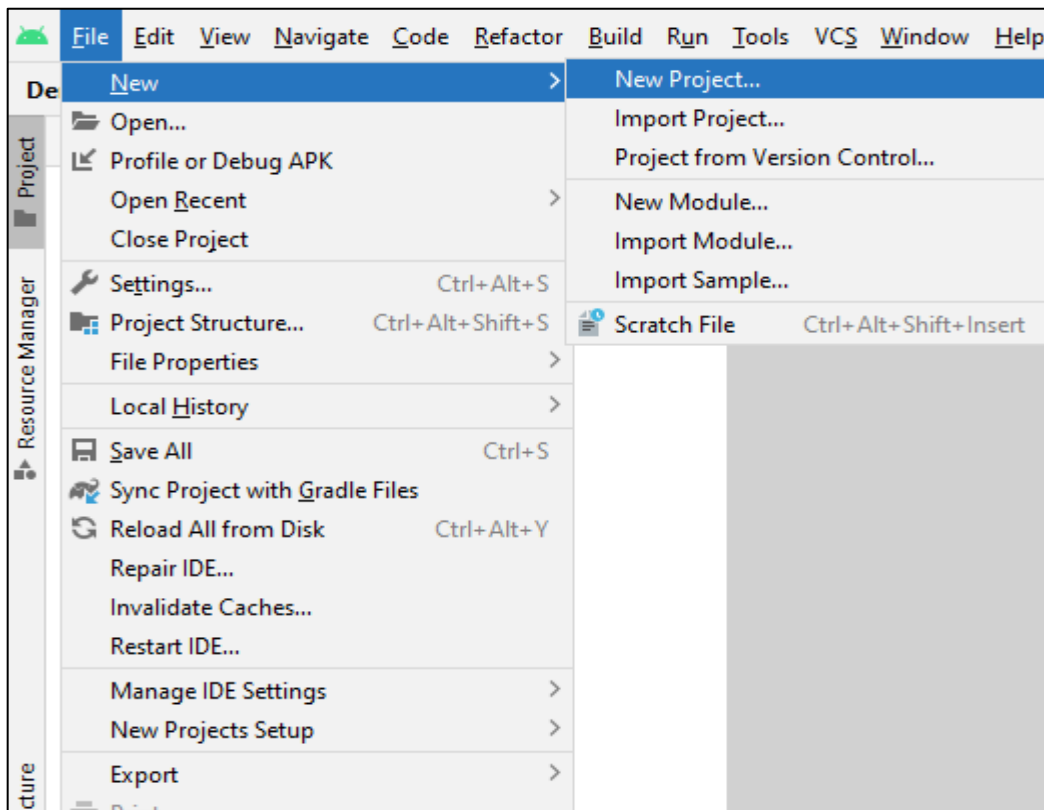
Lab 14: Android Horizontal ScrollView

Introduction

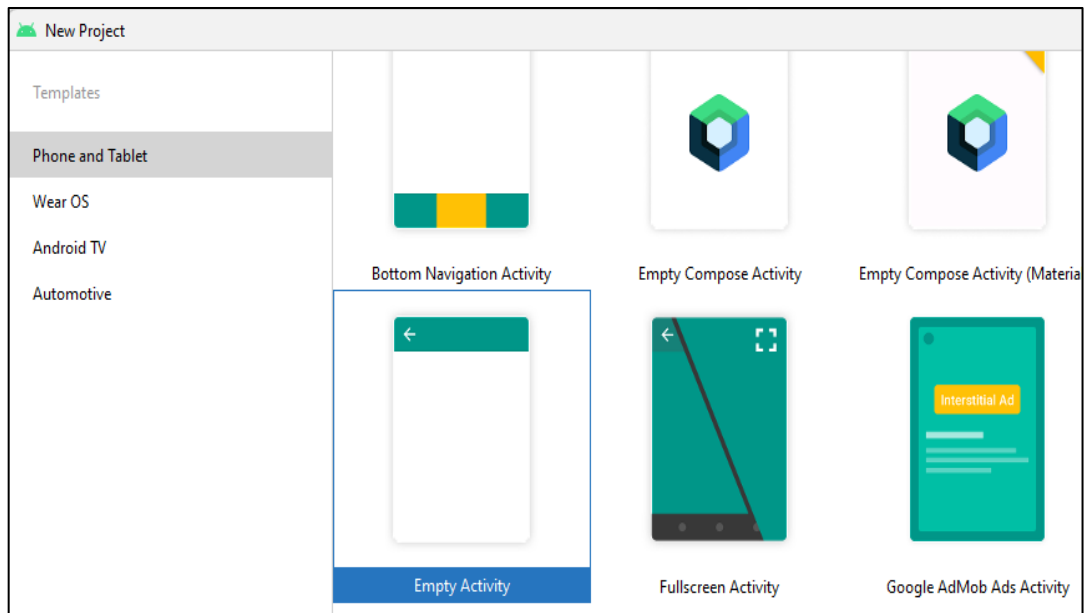
A `FrameLayout` is a `HorizontalScrollView`, the widget for android. The functionality of a horizontal scroll view is provided by the class `HorizontalScrollView`. The child components or views are scrolled horizontally using the `HorizontalScrollView`. Only horizontal scrolling is supported by the `HorizontalScrollView`. Android uses `ScrollView` for vertical scrolling.

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

The screenshot shows the 'Empty Activity' configuration screen in Android Studio. The title is 'Empty Activity'. Below it, it says 'Creates a new empty activity'. There are five input fields: 'Name' with the value 'DemoHorizontalScrollView', 'Package name' with 'com.example.demohorizontalscrollview', 'Save location' with 'C:\Users\hksharma\AndroidStudioProjects\DemoHorizontalScrollView', 'Language' with a dropdown set to 'Java', and 'Minimum SDK' with a dropdown set to 'API 26: Android 8.0 (Oreo)'. Below these fields, there is an information icon and text: 'Your app will run on approximately 88.2% of devices. Help me choose'. At the bottom, there is a checkbox labeled 'Use legacy android.support libraries' which is unchecked, followed by a help icon and explanatory text: 'Using legacy android.support libraries will prevent you from using the latest Play Services and Jetpack libraries'. At the very bottom, there are four buttons: 'Previous', 'Next', 'Cancel', and 'Finish'.

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

```
package com.example.demohorizontalscrollview;

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"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceSmall"
        android:text="My Horizontal ScrollView Example"
        android:id="@+id/textView"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="25dp">
        <HorizontalScrollView
            android:layout_width="match_parent"
            android:layout_height="60dp"
            android:id="@+id/horizontalScrollView">

            <LinearLayout
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:orientation="horizontal">
                <Button
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:text="Button 1"
                    android:id="@+id/button1" />
                <Button
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:text="Button2"
                    android:id="@+id/button2" />
            </LinearLayout>
        </HorizontalScrollView>
    </LinearLayout>
</RelativeLayout>
```

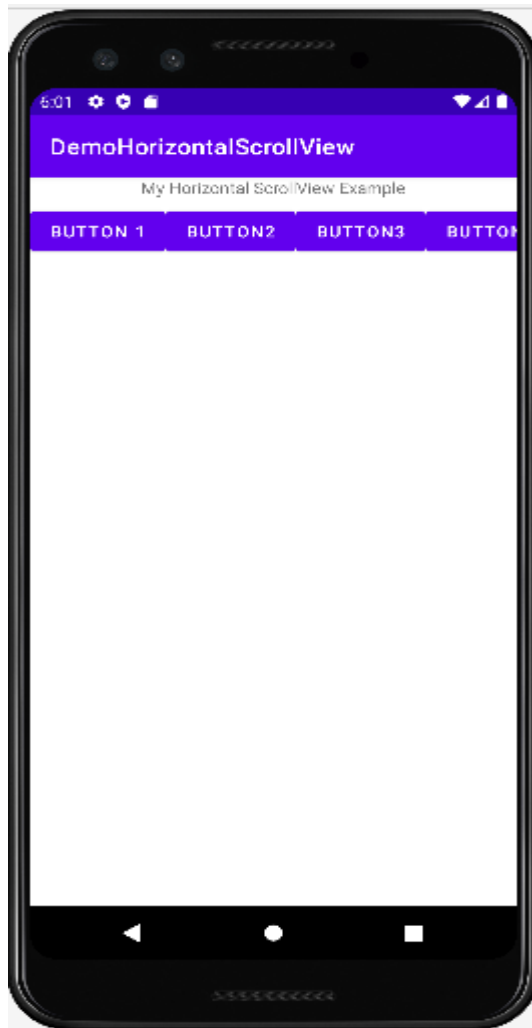
```

        android:id="@+id/button2" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button3"
        android:id="@+id/button3" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button4"
        android:id="@+id/button4" />
</LinearLayout>

</HorizontalScrollView>
</LinearLayout>
</RelativeLayout>

```

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



Voila!! We have successfully completed this lab.