Lab 14: Android Horizontal ScrollView
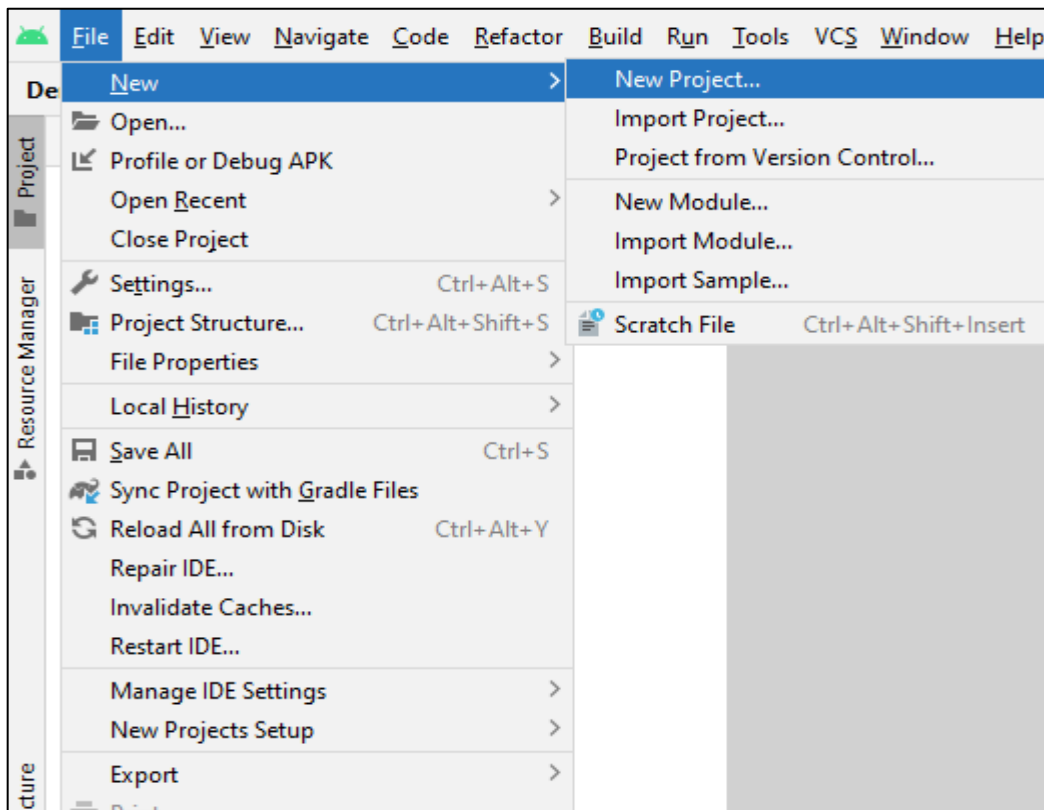
Introduction
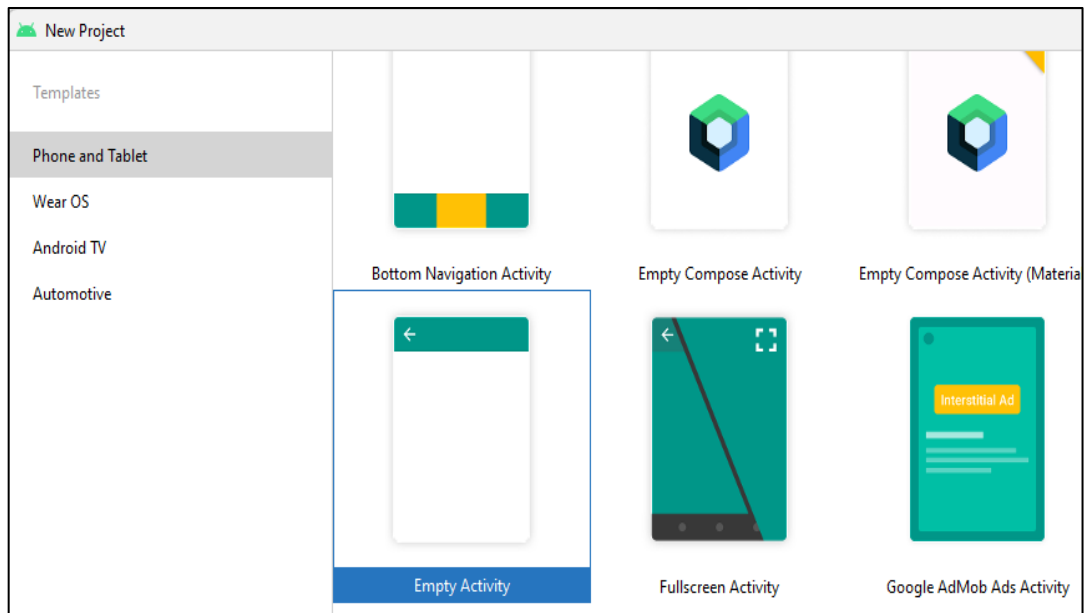
A FrameLayout is a HorizontalScrollView. the widget for android. The functionality of a horizontal scroll view is provided by the class HorizontalScrollView. The child components or views are scrolled horizontally using the HorizontalScrollView. Only horizontal scrolling is supported by the HorizontalScrollView. 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

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

```java
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
<?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" />
            <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>
```
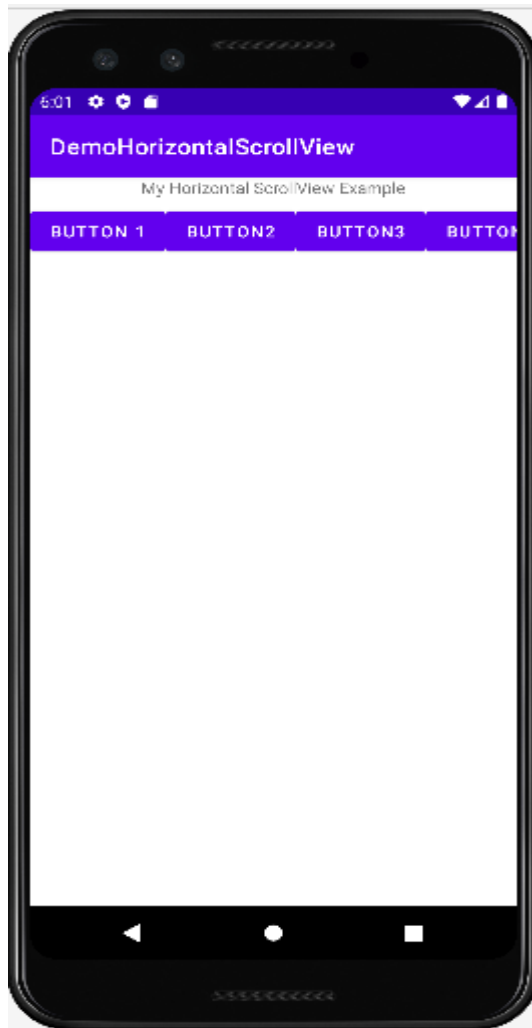
Step 6: Check Output on Android Emulator and it should look like as given below

Voila!! We have successfully completed this lab.