

Mobile Programming

Assignment 4 - Four Spinner

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activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/bg"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Country"
        android:textColor="#000000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.103"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.199" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select City"
        android:textColor="#000000"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
```

```
app:layout_constraintHorizontal_bias="0.103"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.393" />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select Area"
    android:textColor="#000000"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.103"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.492" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Select State"
    android:textColor="#000000"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.103"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.297" />
```

```
<Spinner
    android:id="@+id/sp1"
    android:layout_width="256dp"
    android:layout_height="38dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.896"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.177" />
```

```
<Spinner
    android:id="@+id/sp2"
```

```
android:layout_width="256dp"
android:layout_height="38dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.896"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.278" />
```

```
<Spinner
    android:id="@+id/sp3"
    android:layout_width="256dp"
    android:layout_height="38dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.896"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.376" />
```

```
<Spinner
    android:id="@+id/sp4"
    android:layout_width="256dp"
    android:layout_height="38dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.896"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.479" />
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.74" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.mahajant99.collegetwelve;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.annotation.SuppressLint;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.Button;
```

```
import android.widget.Spinner;
```

```
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    Button b1;
```

```
    Spinner sp1, sp2, sp3, sp4;
```

```
    @SuppressWarnings("MissingInflatedId")
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        b1=findViewById(R.id.b1);
```

```
        sp1=findViewById(R.id.sp1);
```

```
        sp2=findViewById(R.id.sp2);
```

```
        sp3=findViewById(R.id.sp3);
```

```
        sp4=findViewById(R.id.sp4);
```

```
        String country[]={"India","Nepal","China"};
```

```
        ArrayAdapter<String> aa = new ArrayAdapter<>(  
            getApplicationContext(),
```

```
            android.R.layout.simple_spinner_item,
```

```
            country);
```

```
        aa.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
```

```
        sp1.setAdapter(aa);
```

```
        sp1.setOnItemClickListener(new AdapterView.OnItemClickListener() {
```

```
            @Override
```

```
            public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
```

```
                String ss = sp1.getSelectedItem().toString();
```

```

        ArrayAdapter<String> a11=null;
        String in[]={"Delhi","Maharashtra","Rajasthan"};
        String np[]={"Bagmati","Gandaki","Madhesh"};
        String ch[] = {"Henan", "Sichuan", "Hebai"};

        if(ss.equals("India")){
            a11=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,in);
        }if(ss.equals("Nepal")){
            a11=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,np);
        }if(ss.equals("China")){
            a11=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,ch);
        }

        a11.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        sp2.setAdapter(a11);
    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {

    }
});

sp2.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
    @Override
    public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
        String s1 = sp2.getSelectedItem().toString();
        ArrayAdapter<String> a12=null;
        String dl[]={"Delhi"};
        String mh[]={"Pune","Mumbai","Nagpur"};
        String rj[]={"Jodhpur","Jaipur","Udaipur"};

        String bg[]={"Kathmandu","Lalitpur","Bharatpur"};
        String gd[]={"Pokhara","Chapakot","Sarangkot"};
        String md[]={"Janakpur","Birgunj","Balawa"};

        String hen[] = {"Nanyang", "Luoyang", "Sanmenxia"};
        String sic[] = {"Leshan", "Chengdu", "Yaan"};
    }
});

```

```

String heb[] = {"Baoding", "Xingtai", "Langfang"};

if(s1.equals("Delhi")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,dl);
}if(s1.equals("Maharashtra")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,mh);
}if(s1.equals("Rajasthan")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,rj);
}if(s1.equals("Bagmati")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,bg);
}if(s1.equals("Gandaki")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,gd);
}if(s1.equals("Madhesh")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,md);
}if(s1.equals("Henan")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,hen);
}if(s1.equals("Sichuan")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,sic);
}if(s1.equals("Hebai")){
    a12=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,heb);
}

a12.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
sp3.setAdapter(a12);
}

```

```

@Override
public void onNothingSelected(AdapterView<?> parent) {

}
});

sp3.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {
@Override
public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {
    String s2 = sp3.getSelectedItem().toString();
    ArrayAdapter<String> a13=null;

    String d[]={"Govind Puri", "Kalka Ji", "Saket"};

    String pn[]={"Model Colony", "Kodhrod", "Aundh"};
    String mun[]={"Bandra", "Andheri", "Powai"};
    String ng[]={"Bank Colony","Kachimet","Kalameshwar"};

    String jd[]={"Sardar Pura","Shaastrri Nagar","Circuit House"};
    String ja[]={"Vaishali Nagar","Kalwar Road","Jagat Pura"};
    String ud[]={"Sarada","Bhinder","Jhadol"};

    String kha[] = {"Thamel", "Lazimpat", "Boudha"};
    String lal[] = {"DevGarh Hill", "MardanSingh Fort", "Mahavir Wildlife Santury"};
    String bha[] = {"Durbar Square", "55 Windows Palace", "Taumadhi Square"};

    String po[] = {"Devi's Fall", "Phewa Lake", "Sarankot"};
    String go[] = {"Manasalu", "Laparak", "Manakamana Temple"};
    String cha[] = {"Circuit Trek", "Himal Trek", "Tilicho Lake"};

    String jan[] = {"Kamalamai", "Bhimeshwor", "Dhalkebar"};
    String bir[] = {"Thrill Factory", "Ghadiarwa Pokhari", "Shree Gahawamai Temple"};
    String gau[] = {"Janki Temple", "Kesariya Stupa", "Janaki Temple"};

    String na [] = {"Spring Temple Buddha", "Shiren Mountain Mountain", "Tongbai Mountain"};
    String lu [] = {"Longmen Grottoes", "White House Temple", "Shaolin Temple"};
    String sa [] = {"Huanghe Forest Park", "Swan Lake", "The Yellow River"};

    String le[]={"Leshan Giant Buddha", "Jinding Mountain", "Baoguo Temple"};
    String ch1[] = {"Wenshu Yuan Monastery", "Leshan Giant Buddha", "Anshun Bridge"};
    String ya[]={"Bifeng Valley", "Anshun Ground", "Wawu Mountain"};

    String bo[] = {"Baishi Mountain","Langya Mountain","Tailing"};

```

```
String xi[] = {"Taihang Shan", "Qilihe Sports Park", "Kongshan White Cloud Cave"};  
String ln[] = {"Shengfang Ancient Town", "Yanjiao Park", "langfang stadium"};
```

```
if(s2.equals("Delhi")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,d);  
}  
if(s2.equals("Pune")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,pn);  
}  
if(s2.equals("Mumbai")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,mun);  
}  
if(s2.equals("Nagpur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,ng);  
}  
if(s2.equals("Jodhpur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,jd);  
}  
if(s2.equals("Jaipur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,ja);  
}  
if(s2.equals("Udaipur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,ud);  
}  
if(s2.equals("Kathmandu")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,kha);  
}  
if(s2.equals("Lalitpur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,lal);  
}  
if(s2.equals("Bharatpur")){  
    a13=new ArrayAdapter<String>(  
        getApplicationContext(),  
        android.R.layout.simple_spinner_item,bha);  
}
```



```
}if(s2.equals("Pokhara")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,po);
}if(s2.equals("Chapakot")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,cha);
}if(s2.equals("Sarangkot")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,go);
}if(s2.equals("Janakpur")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,jan);
}if(s2.equals("Birgunj")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,bir);
}if(s2.equals("Balawa")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,gau);
}if(s2.equals("Nanyang")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,na);
}if(s2.equals("Luoyang")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,lu);
}if(s2.equals("Sanmenxia")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,sa);
}if(s2.equals("Leshan")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,le);
}if(s2.equals("Chengdu")){
    a13=new ArrayAdapter<String>(
        getApplicationContext(),
        android.R.layout.simple_spinner_item,ch1);
```

```

        if(s2.equals("Yaan")){
            a13=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,ya);
        }if(s2.equals("Baoding")){
            a13=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,bo);
        }if(s2.equals("Xingtai")){
            a13=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,xi);
        }if(s2.equals("Langfang")){
            a13=new ArrayAdapter<String>(
                getApplicationContext(),
                android.R.layout.simple_spinner_item,ln);
        }

        a13.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        sp4.setAdapter(a13);

    }

    @Override
    public void onNothingSelected(AdapterView<?> parent) {

    }

});

b1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

        Toast.makeText(getApplicationContext()
            ,"Country: "+sp1.getSelectedItem().toString() +
            ", State: "+sp2.getSelectedItem().toString() +
            ", City: "+sp3.getSelectedItem().toString() +
            ", Area: "+sp4.getSelectedItem().toString(),
            Toast.LENGTH_SHORT).show();
    }
});

}
}

```

Images





