

# Extra Ex 3: Android Spinner and Auto Complete

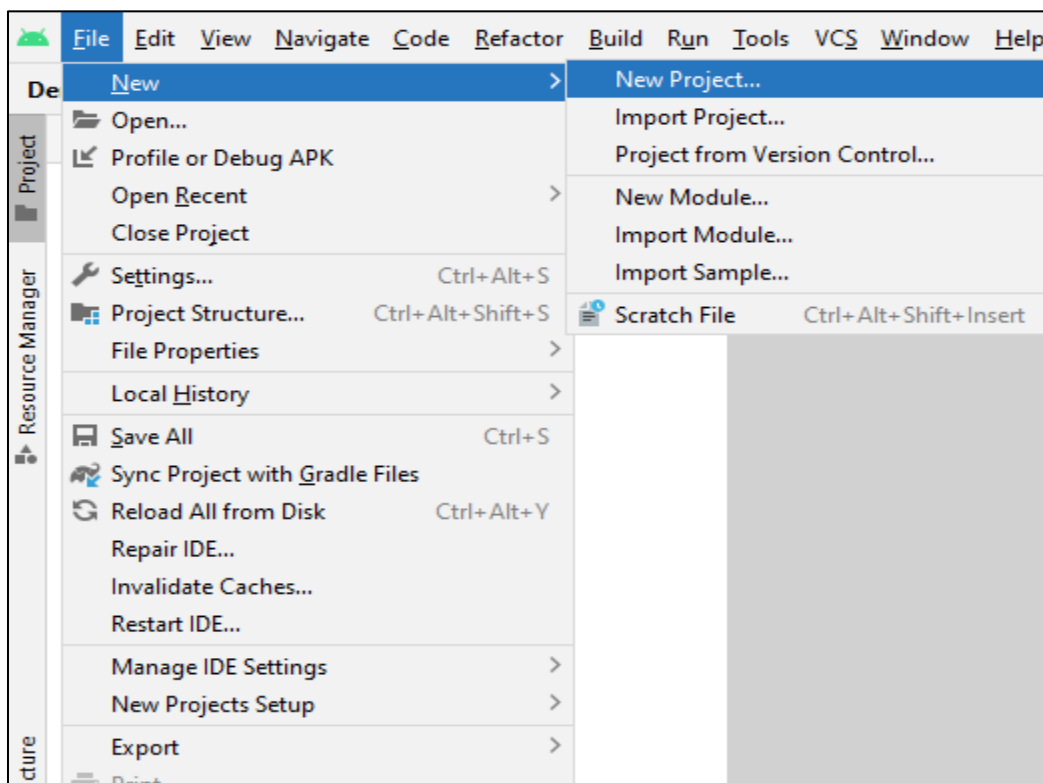
## Introduction

Spinner and Auto Complete View is used to make a drop down list and providing hint to the user.

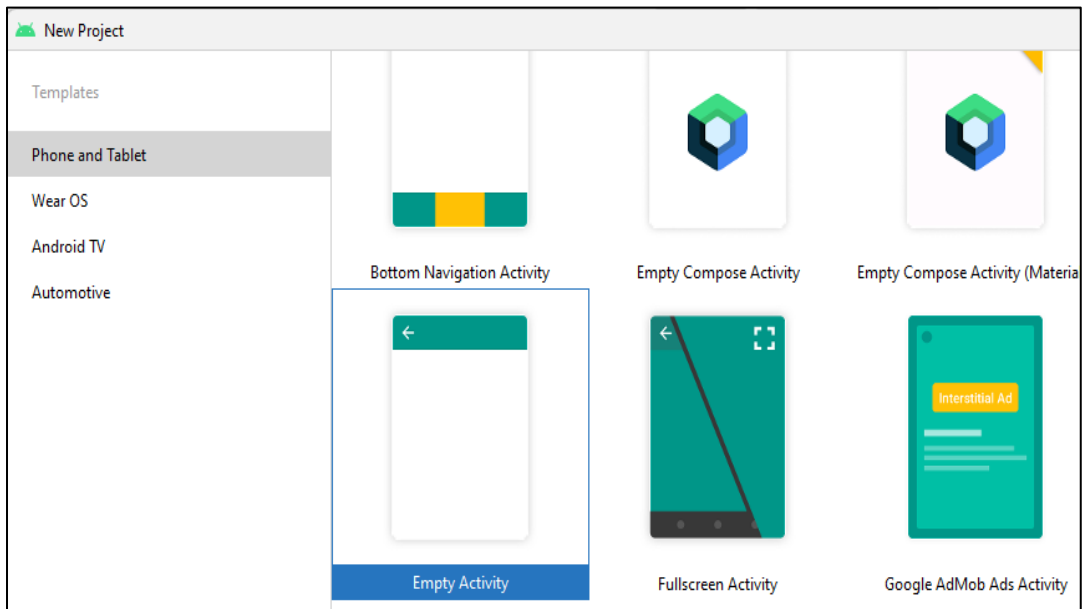
## Let's get Started

This exercise will take you through simple steps to show how to create your own Android application using ListView Layout.

**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 the title, it says 'Creates a new empty activity'. The form contains the following fields and options:

- Name:** DemoSpinnerAutoComplete
- Package name:** com.example.demospinnerautocomplete
- Save location:** C:\Users\hksharma\AndroidStudioProjects\DemoSpinnerAutoComplete2
- Language:** Java
- Minimum SDK:** API 26: Android 8.0 (Oreo)

Below the fields, there is an information icon and 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, it says: '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.demospinnerautocomplete;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.AdapterView;
import android.widget.AutoCompleteTextView;
import android.widget.Spinner;
import java.util.ArrayList;

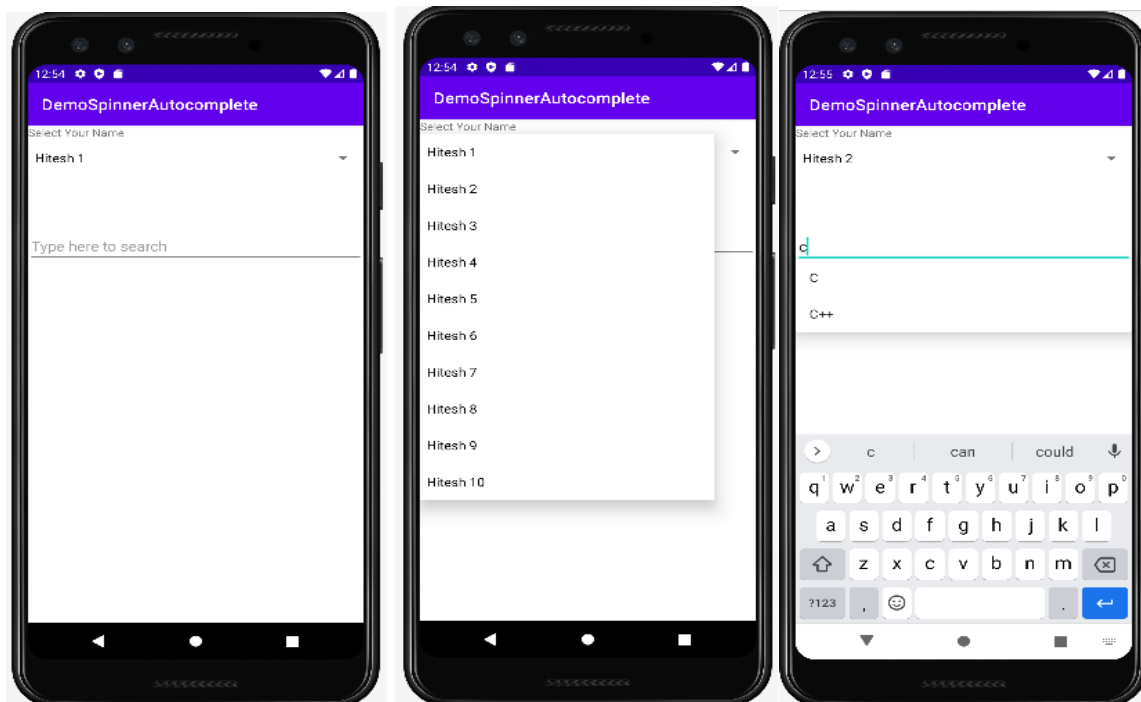
public class MainActivity extends AppCompatActivity {
    ArrayList<String> alNames= new ArrayList<>();
    ArrayList<String> allLang= new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Spinner spinner = findViewById(R.id.mySpinner);
        AutoCompleteTextView actView= findViewById(R.id.autoCompText);
        alNames.add("Hitesh 1");
        alNames.add("Hitesh 2");
        alNames.add("Hitesh 3");
        alNames.add("Hitesh 4");
        alNames.add("Hitesh 5");
        alNames.add("Hitesh 6");
        alNames.add("Hitesh 7");
        alNames.add("Hitesh 8");
        alNames.add("Hitesh 9");
        alNames.add("Hitesh 10");

        allLang.add("Python");
        allLang.add("C");
        allLang.add("C++");
        allLang.add("Java");
        ArrayAdapter<String> arrayAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_spinner_dropdown_item,alNames);
        spinner.setAdapter(arrayAdapter);
        ArrayAdapter<String> arrayAdapterAuto = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1,allLang);
        actView.setAdapter(arrayAdapterAuto);
        actView.setThreshold(1);
    }
}
```

### Step 5: Update activity\_main.xml as per the code given below

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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"
    tools:context=".MainActivity"
    android:orientation="vertical">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Select Your Name"
        />
        <Spinner
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/mySpinner"/>
        <AutoCompleteTextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="70dp"
            android:hint="Type here to search"
            android:id="@+id/autoCompText"/>
    </LinearLayout>
</LinearLayout>
```

## Step 6: Check Output on Android Emulator.



**Voila!!** We have successfully completed this lab.