```
Android ListView
Android ListView is a view which contains the group of items and displays in a scrollable list. ListView is implemented by importing
```

android.widget.ListView class. ListView is a default scrollable which does not use other scroll view. ListView uses Adapter classes which add the content from data source (such as string array, array, database etc) to ListView. Adapter bridges data between an AdapterViews and other Views (ListView, ScrollView etc).

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Example of ListView

java listview.example.com.listview

drawable drawable-v24

main

Structure of listview project

MainActivity ▼ res

Let's implement a simple listview example.

```
▼ Image: Im
                                                                                      activity_main.xml
                                                                                      mylist.xml
                                           mipmap-anydpi-v26
                                           mipmap-hdpi
                                           mipmap-mdpi
                                           mipmap-xhdpi
                                            mipmap-xxhdpi
                                           mipmap-xxxhdpi

▼ Image values

                                                                                      colors.xml
                                                                                      👼 strings.xml
                                                                                      styles.xml
activity_main.xml
 First we need to drag and drop ListView component from palette to activity_main.xml file.
 File: activity_main.xml
```

<?xml version="1.0" encoding="utf-8"?>

android:layout_width="match_parent" android:layout_height="match_parent"

android:id="@+id/listView"

android:layout_width="match_parent"

android:layout_width="wrap_content" android:layout_height="wrap_content"

android:text="Medium Text"

android:textStyle="bold"

android:padding="2dp"

xmlns:app="http://schemas.android.com/apk/res-auto"

tools:context="listview.example.com.listview.MainActivity">

<ListView

<android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android

```
android:layout_height="fill_parent"
        />
   </android.support.constraint.ConstraintLayout>
Create an additional mylist.xml file in layout folder which contains view components displayed in listview.
mylist.xml
File: mylist.xml
  <?xml version="1.0" encoding="utf-8"?>
  <TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/textView"
```

/>

Now place the list of data in strings.xml file by creating string-array.

<string name="app_name">ListView</string>

<string-array name="array_technology">

<item>Android</item>

<item>Hadoop</item>

<item>Sap</item> <item>Python</item>

<item>Ajax</item> <item>C++</item> <item>Ruby</item> <item>Rails</item> <item>.Net</item> <item>Perl</item>

android:textAppearance="?android:attr/textAppearanceMedium"

<item>Java</item> <item>Php</item>

strings.xml

File:strings.xml

<resources>

</resources>

Activity class

File: MainActivity.java

import android.os.Bundle; import android.view.View;

package listview.example.com.listview;

import android.widget.AdapterView; import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.support.v7.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

</string-array>

import android.widget.TextView; import android.widget.Toast;

In java class we need to add adapter to listview using setAdapter() method of listview.

```
ListView listView;
    TextView textView;
    String[] listItem;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       listView=(ListView)findViewById(R.id.listView);
       textView=(TextView)findViewById(R.id.textView);
       listItem = getResources().getStringArray(R.array.array_technology);
       final ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,
            android.R.layout.simple_list_item_1, android.R.id.text1, listItem);
       listView.setAdapter(adapter);
       listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
          @Override
          public void onItemClick(AdapterView<?> adapterView, View view, int position, long l) {
            // TODO Auto-generated method stub
            String value=adapter.getItem(position);
            Toast.makeText(getApplicationContext(), value, Toast.LENGTH_SHORT).show();
         }
       });
    }
Output
 .
                               1 2:40
 ListView
 Android
 Java
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Php
Hadoop
Sap
Python
Ajax
C++
Ruby
Rails
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ListView
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