

# Android List View

//Activity-1

```
package com.example.mixapp;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity_listview extends AppCompatActivity {
    public static int index;
    EditText et_item;
    Button btn_add,btn_edit,btn_del,btnsavelistitem;
    ListView lv_item;
    ArrayList<String> todoitems;
    SharedPreferences sp4;
    SharedPreferences.Editor editor;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main_listview);
        getSupportActionBar().hide();

        //control binding
        lv_item = findViewById(R.id.lvItems);
        et_item = findViewById(R.id.et_item);
        btn_add = findViewById(R.id.btnAdd);
        btn_edit = findViewById(R.id.btnEdit);
        btn_del = findViewById(R.id.btnDel);
        btnsavelistitem = findViewById(R.id.btnsavelistitem);

        todoitems = new ArrayList<String>();
        ArrayAdapter<String> adplist = new ArrayAdapter<String>(MainActivity_listview.this,
        android.R.layout.simple_list_item_1,todoitems);
        lv_item.setAdapter(adplist);

        //get id of selected item
        lv_item.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                index = i;
                ToastMsg("Selcted: "+ adplist.getItem(index) );
            }
        });
        //add item
        btn_add.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String item = et_item.getText().toString();
                if(item.equals("")){
```

```

        ToastMsg("not added enter value");
    }
    else{
        todoitems.add(item);
        adplist.notifyDataSetChanged();
        ToastMsg( " Item added: "+ item);
        et_item.setText("");
    }

}

});

//edit item
btn_edit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String item = et_item.getText().toString();
        if(item.equals("")){
            ToastMsg("not added enter value");
        }
        else{
            String olditem = adplist.getItem(index).toString();
            todoitems.set(index,item);
            adplist.notifyDataSetChanged();
            ToastMsg(olditem + " updated to : "+ item);
            et_item.setText("");
        }
    }
});

//del item
btn_del.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String delitem = adplist.getItem(index);
        todoitems.remove(index);
        adplist.notifyDataSetChanged();
        ToastMsg("Removed: " + delitem);
    }
});

//save list item
btnsavelistitem.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String listItems = "";
        int item = 0;
        while (item < todoitems.size()){
            listItems += (item+1)+". " + todoitems.get(item) + "\n";
            item++;
        }

        sp4 = getSharedPreferences("sp_list_item",MODE_PRIVATE);
        editor = sp4.edit();
        editor.putString("KeyItemList",listItems);
        editor.commit();
        Intent intent = new Intent(MainActivity_listview.this,MainActivity_listviewDisplay.class);
        startActivity(intent);
    }
});

```

```

    }

    public void ToastMsg(String s){
        Toast.makeText(this, s, Toast.LENGTH_SHORT).show();
    }
}

```

//Activity-2

```

package com.example.mixapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity_listviewDisplay extends AppCompatActivity {

    TextView tv_list;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main_listview_display);
        getSupportActionBar().hide();

        tv_list = findViewById(R.id.tv_list);
        SharedPreferences sp5 = getSharedPreferences("sp_list_item",MODE_PRIVATE);
        SharedPreferences.Editor editor = sp5.edit();
        String mylist = sp5.getString("KeyItemList",null);
        if(mylist.equals("")){
            tv_list.setText("No item in your list");
        }else{
            tv_list.setText(mylist);
        }
    }
}

```

// Activity - 1 XML file

```

<?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"
    android:orientation="vertical"
    tools:context=".MainActivity_listview">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:padding="20dp"
            android:orientation="vertical">

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"

```

```
    android:layout_marginTop="20dp"
    android:layout_marginBottom="30dp"
    android:drawableLeft="@drawable/logo_foreground"
    android:text="Todo List"
    android:gravity="center"
    android:textColor="#ff8000"
    android:textSize="28dp"
    android:textStyle="bold" />
```

```
<EditText
    android:id="@+id/et_item"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="add todo item"/>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:orientation="horizontal">
```

```
    <Button
        android:id="@+id/btnAdd"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:layout_height="wrap_content"
        android:layout_marginRight="12dp"
        android:text="add"/>
```

```
    <Button
        android:id="@+id/btnEdit"
        android:layout_weight="1"
        android:layout_width="match_parent"
        android:layout_marginRight="12dp"
        android:layout_height="wrap_content"
        android:text="Edit"/>
```

```
    <Button
        android:id="@+id/btnDel"
        android:layout_weight="1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Del"/>
```

```
</LinearLayout>
<Button
    android:id="@+id/btnsaveListitem"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="save list item"/>
```

```
<ListView
    android:id="@+id/lvItems"
    android:layout_width="match_parent"
    android:layout_height="441dp"
    android:listSelector="#ff8000"
    android:layout_marginTop="20dp" />
```

```
</LinearLayout>
```

```
</ScrollView>
```

```
</LinearLayout>
```

```
// Activity - 2 XML file
```

```
<?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"
    android:orientation="vertical"
    android:padding="20dp"
    tools:context=".MainActivity_listviewDisplay">
```

```
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_marginBottom="30dp"
        android:drawableLeft="@drawable/logo_foreground"
        android:text="Todo List"
        android:gravity="center"
        android:textColor="#ff8000"
        android:textSize="28dp"
        android:textStyle="bold" />
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:layout_marginBottom="12dp"
    android:text="Todo List"
    android:textColor="#ff8000"
    android:textSize="20dp"
    android:textStyle="bold" />
```

```
<TextView
    android:id="@+id/tv_list"
    android:layout_width="match_parent"
    android:textSize="18dp"
    android:padding="10dp"
    android:layout_height="wrap_content"/>
```

```
</LinearLayout>
```