

```
1: package com.delta.listviews;
2:
3: import android.app.Activity;
4: import android.app.ActionBar;
5: import android.app.Fragment;
6: import android.os.Bundle;
7: import android.util.Log;
8: import android.view.LayoutInflater;
9: import android.view.Menu;
10: import android.view.MenuItem;
11: import android.view.View;
12: import android.view.ViewGroup;
13: import android.os.Build;
14: import android.widget.AdapterView;
15: import android.widget.ListView;
16:
17: public class ListViewActivity extends Activity {
18:     //initial data
19:     Place[] myPlacesArray = new Place[]{
20:         new Place("Art House", 78701, "art", "This place is tasteful"),
21:         new Place("Bike Shop", 78702, "bike", "Cool bikes"),
22:         new Place("Camera Fix", 78702, "polaroids", "These guys always rip me off"),
23:         new Place("YETspace", 78702, "radio", "I LOVE this place"),
24:         new Place("Secret Space Pad", 94103, "rocket", "Not very secret, are they?"),
25:         new Place("Taylor's Tailor", 60610, "scissors", "Looking good.."),
26:         new Place("Boathouse", 78701, "shipwheel", "That place is full of pirates!"),
27:         new Place("Not Apple Store", 78702, "tablet", "Android rules!"),
28:         new Place("Tool Battleground", 78702, "tools", "That place is dangerous"),
29:         new Place("Travelpediocity", 78702, "travelerbag", "This is where i booked my summer trip"),
30:         new Place("UFO Pick-a-part", 90210, "ufo", "Out of this world stuff here."),
31:         new Place("Spawrk's House", 99999, "volume", "The music is always so good"),
32:     };
33:
34:     String[] myStringArray = new String[]{
35:         "Art House",
36:         "Bike Shop",
37:         "Camera Fix",
38:         "YETspace",
39:         "Secret Space Pad",
40:         "Taylor's Tailor",
41:         "Boathouse",
42:         "Not Apple Store",
43:         "Tool Battleground",
44:         "Travelpediocity",
45:         "UFO Pick-a-part",
46:         "Spawrk's House",
47:     };
48:
```

```
49:     private ListView mListView;
50:     private PlaceAdapter mPlaceAdapter;
51:
52:     @Override
53:     protected void onCreate(Bundle savedInstanceState) {
54:         super.onCreate(savedInstanceState);
55:         setContentView(R.layout.activity_list_view);
56:
57:         mListView = (ListView) findViewById(R.id.myListView);
58:
59:         mPlaceAdapter = new PlaceAdapter(getApplicationContext(), R.layout.row, myPlacesArray);
60:
61:         if(mListView != null){
62:             mListView.setAdapter(mPlaceAdapter);
63:         }
64:
65:         mListView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
66:             @Override
67:             public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
68:                 Log.v("PLACE", myPlacesArray[i].mNameOfPlace);
69:             }
70:         });
71:
72:     }
73:
74:     @Override
75:     public boolean onCreateOptionsMenu(Menu menu) {
76:
77:         // Inflate the menu; this adds items to the action bar if it is present.
78:         getMenuInflater().inflate(R.menu.list_view, menu);
79:         return true;
80:     }
81:
82:     @Override
83:     public boolean onOptionsItemSelected(MenuItem item) {
84:         // Handle action bar item clicks here. The action bar will
85:         // automatically handle clicks on the Home/Up button, so long
86:         // as you specify a parent activity in AndroidManifest.xml.
87:         int id = item.getItemId();
88:         if (id == R.id.action_settings) {
89:             return true;
90:         }
91:         return super.onOptionsItemSelected(item);
92:     }
93:
94:
95: }
```

```
1: package com.delta.listviews;
2:
3: /**
4:  * Created by spawrks on 2/13/14.
5:  */
6: public class Place {
7:
8:     public String mNameOfPlace;
9:     public int mZipCode;
10:    public String mNameOfImage;
11:    public String mPopup;
12:
13:    public Place (String startNameOfPlace, int startZipCode,String startNameOfImage, String startPopup ){
14:
15:        this.mNameOfPlace = startNameOfPlace;
16:        this.mZipCode = startZipCode;
17:        this.mNameOfImage = startNameOfImage;
18:        this.mPopup = startPopup;
19:
20:    }
21:
22: }
```

```
1: package com.delta.listviews;
2:
3: import android.content.Context;
4: import android.view.LayoutInflater;
5: import android.view.View;
6: import android.view.ViewGroup;
7: import android.widget.ArrayAdapter;
8: import android.widget.ImageView;
9: import android.widget.TextView;
10: import android.widget.Toast;
11:
12: /**
13:  * Created by learnovate on 2/17/14.
14:  */
15: public class PlaceAdapter extends ArrayAdapter<Place> {
16:
17:     Context mContext;
18:     int mLayoutResourceId;
19:     Place mData[] = null;
20:
21:     public PlaceAdapter(Context context, int resource, Place[] data) {
22:         super(context, resource, data);
23:
24:         this.mContext = context;
25:         this.mLayoutResourceId = resource;
26:         this.mData = data;
27:
28:     }
29:
30:     @Override
31:     public Place getItem(int position) {
32:         return super.getItem(position);
33:     }
34:
35:     @Override
36:     public View getView(int position, View convertView, ViewGroup parent) {
37:
38:         View row = convertView;
39:         Placeholder holder = null;
40:
41:         //if we currently don't have a row View to reuse..
42:         if(row == null){
43:             //Create a new View
44:             LayoutInflater inflater = LayoutInflater.from(mContext);
45:             row = inflater.inflate(mLayoutResourceId,parent,false);
46:
47:             holder = new Placeholder();
48:
```

```
49:         holder.nameView = (TextView) row.findViewById(R.id.nameTextView);
50:         holder.zipView = (TextView) row.findViewById(R.id.zipcodeTextView);
51:         holder.imageView = (ImageView) row.findViewById(R.id.imageView);
52:
53:         row.setTag(holder);
54:     }else{
55:         //Otherwise use an existing one
56:         holder = (Placeholder) row.getTag();
57:     }
58:
59:     //Getting the data form the data array
60:     Place place = mData[position];
61:
62:     //Setup and reuse the same listener for each row
63:     holder.imageView.setOnClickListener(PopupListener);
64:     Integer rowPosition = position;
65:     holder.imageView.setTag(rowPosition);
66:
67:
68:     //setting the view to reflect the data we need to display
69:     holder.nameView.setText(place.mNameOfPlace);
70:     holder.zipView.setText(String.valueOf(place.mZipCode));
71:
72:     //for getting the image
73:     int resID = mContext.getResources().getIdentifier(place.mNameOfImage, "drawable", mContext.getPackageName());
74:     holder.imageView.setImageResource(resID);
75:
76:
77:     //returning the row (because this is called getView after all)
78:
79:     return row;
80:
81:
82: }
83:
84: View.OnClickListener PopupListener = new View.OnClickListener() {
85:     @Override
86:     public void onClick(View view) {
87:         Integer viewPosition = (Integer) view.getTag();
88:         Place p = mData[viewPosition];
89:         Toast.makeText(getContext(), p.mPopup, Toast.LENGTH_SHORT).show();
90:     }
91: };
92:
93:
94: private static class Placeholder {
95:     TextView nameView;
96:     TextView zipView;
```

```
97:         ImageView imageView;
98:     }
99:
100:
101:
102: }
103:
104:
105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
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