

Project Team 1

Pattern Design

11/18/2013

Adapter Pattern

One of the design patterns that we've identified is the Adapter Pattern. We use this pattern in our MainActivity.java with our ArrayList, ArrayAdapter, and ListView. The ListView Class is used to create "A view that shows items in a vertically scrolling list." Since the items that we want in our vertically scrolling list are Strings, we set the ListView adapter as the ArrayAdapter in order to let the ListView use the Strings in our ArrayList as the data. The code below shows the instance of this happening.

```
58 private ArrayList<String> temporaryClippedElements = new ArrayList<String>();
59 private ArrayAdapter<String> listAdapter;

86 // create list view for displaying items that are cached in memory locally
87 ListView listView = (ListView) findViewById(R.id.clipboardListView);
88 this.listAdapter = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, this.temporarilyClippedElements);
89 listView.setAdapter(this.listAdapter);
```