

Programming Test

Directions

- You may use the Internet to look up Android and Java documentation, but not to seek an answer to the whole assignment.
- READ IT ALL FIRST

Assignment

Your assignment is to create a Students List app for Android. A Java object which represents a Student has been provided on the Moodle, this class contains a static method which will return an array of student objects to populate the list view. Figure 1 illustrates how the list interface should be laid out.

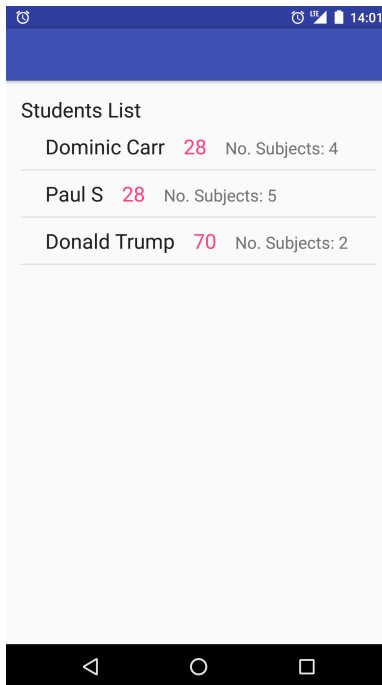


Figure 1: Example of ListView

Each student item view, has three text views, for name, age, and the number of subjects they are studying. Each of these fields is to be formatted with the following properties

```
android:textAppearance
android:textColor
android:paddingRight
```

You must include all the elements shown in Figure 1. When the user clicks on one of items in the list view another activity is launched, this activity UI is shown in Figure 2. An on item click listener should be used, as shown in Listing 1, to launch the second activity. The method `listView.getItemAtPosition(position)` will also be useful.

Listing 1: Click Listener

```
listView.setOnItemClickListener
```

Figure 2 illustrates that we need a `TextView` to show the students biography and another `ListView` to display their subjects. This information comes from the `Student` instance which was clicked, in order to send this information to another activity you can utilize an `Intent` as shown in Listing 2.

Listing 2: Intent putExtra

```
iintent.putExtra("STRING_I_NEED", strName);
```

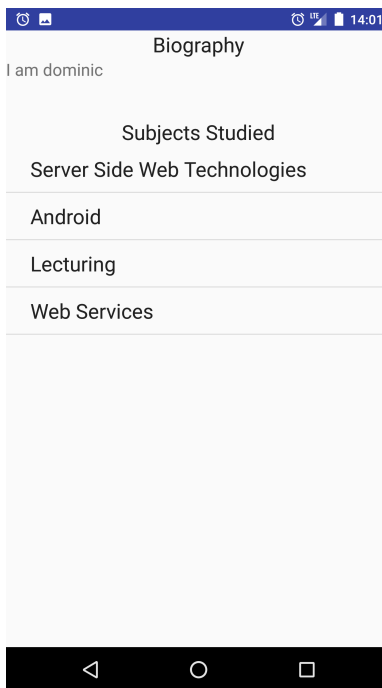


Figure 2: Example of Biography

Tips

- To add another activity to your project it must also be declared in the manifest.
- The Custom List View example code has as its Object type a `String`, a string is a Java object. The `Student` class can be treated in the same manner.

Expectations

- Methods should be commented lightly.
- Classes commented with @author tag.
- Class level comment of main activity should inform me what you have accomplished.
- Code should be well formatted.
- Use clear variable names both in the XML and Java.