

Ubiquitous Computing – Lab 2 (7 %)

Q1. Expand the user details form lab 1 so that the message saying “Thank you <persons name>, your request is being processed” is on a new Screen, i.e. create a new Activity and start it using an Intent object. The person’s name should be sent as part of the Intent object.

Q2.

- Write an Android application that presents the user with an editable TextView where they can enter the URL of an image stored online.
- Give them a button on the same screen called “Retrieve Image”. When the user clicks this button the app should retrieve the image from the web. It should do this in a separate thread.
- When the image is downloaded it should be displayed on the same Screen (use an ImageView).
- Here is a method to download an image from the web:

```
//some imports
import java.io.InputStream;
import java.net.URL;
import android.graphics.drawable.Drawable;

Drawable loadImageFromNetwork(String url)
{
    try
    {
        InputStream is = (InputStream) new URL(url).getContent();
        Drawable d = Drawable.createFromStream(is, "src name");
        return d;
    } catch (Exception e)
    {
        System.out.println("Exc=" + e);
        return null;
    }
}
```

Q3.

You are required to write an Android App for making and storing Lists, e.g. to-do lists, shopping list etc.

You need to store the lists in a SQLite database. You only need one table, the format could be like this

ID	NAME	LIST
1	TODO	String of TODO items
2	SHOPPING	String of Shopping items
3

The UI then should present the user with an option to make a new list, view/edit/clear an existing list (search by category) and delete a list (You must use a Relative Layout here).

You may simply display the LIST in an EditText view (make it scrollable), go the UI might have the following components:

