**What You will Learn**

* how to add a new Activity
* how to use an Intent to inflate another Activity
* how to pass data when using an Intent
* how to refactor

You will learn how to add a second Activity to your Login Example. Then you will learn how to use an Intent to inflate the new activity, and how to exchange data.

This lab also teaches you how to add new functional requirement to an existing app.

This lab begins by showing you how to refactor.

**Refactor MainActivity to LoginActivity**

Open your *Login Example* project.

Open class **MainActivity** in the editor. When I first created the project, Android Studio suggested a default name of: MainActivity

In this step, refactor MainActivity and rename it to a more appropriate name: **LoginActivity**

* in Project view, select: **MainActivity**
* right-click > Refactor > Rename... > replace with: LoginActivity > click: Refactor

Next, open **AndroidManifest.xml**

Notice the name activity is now **LoginActivity**

Remember to use the Refactor menu to rename and delete code from your project.

**New Activity: HomeActivity**

HomeActivity is the screen the user sees after successfully logging in from LoginActivity.

In this step, you will add a new Activity named: **HomeActivity**

To add a new Activity:

* select the Java package: **com.algonquincollege.yourUserId.loginexample**
* right-click: **New > Activity > Empty Activity**
  + Activity Name: **HomeActivity**
  + Check: **Generate Layout File**
  + Layout Name: **activity\_home**
  + Uncheck: **Launcher Activity**
  + Check: **Backward Compatibility (AppCompat)**
  + Package name: (same as above)
  + {Finish}

**Design activity\_home.xml**

Open **activity\_home.xml** in Design view.

Add <TextView> widgets to display the following data (passed from LoginActivity):

* username (String)
* password (String)
* rememberMe (boolean)

Be creative and express yourself!

**Use an Intent to Inflate HomeActivity**

Open **LoginActivity**

Find your line of code that displays the Toast message for a successful login. This should be near the end of the onClick( ) method for the loginButton.

Add an explicit Intent to inflate HomeActivity. To the intent, put the username and password as extra data.

Here's part of my code (recall.... userEmail for me, username for you):

// SUCCESS!! All user input has been validated.

Toast.makeText(getApplicationContext(), "Email: " + userEmail + " pw: " + password + " remember? " + isRememberMe, Toast.LENGTH\_LONG).show();

Intent intent = new Intent( getApplicationContext(), HomeActivity.class );

intent.setFlags( Intent.FLAG\_ACTIVITY\_CLEAR\_TOP );

intent.putExtra( "userEmail", userEmail );

intent.putExtra( "userPassword", userPasswordText.getText().toString() );

startActivity( intent );

Log.i(LOG\_TAG, "LEAVE onClick()");

**Display Username and Password in HomeActivity**

Open **HomeActivity**

To the onCreate( ) method:

* get the intent data for the username and password
* display the username and password on HomeActivity

My entire implementation of HomeActivity.java

package com.algonquincollege.hurdleg.loginexample;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.TextView;

public class HomeActivity extends AppCompatActivity {

private TextView homeUserEmail;

private TextView homeUserPassword;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_home);

homeUserEmail = (TextView) findViewById( R.id.homeUserEmail );

homeUserPassword = (TextView) findViewById( R.id.homeUserPassword );

// Get the bundle of extras that was sent to this activity

Bundle bundle = getIntent().getExtras();

if ( bundle != null ) {

String userEmailFromLoginActivity = bundle.getString( "userEmail" );

String userPasswordFromLoginActivity = bundle.getString( "userPassword" );

homeUserEmail.setText( userEmailFromLoginActivity );

homeUserPassword.setText( userPasswordFromLoginActivity );

}

}

}

**Deliverables**

Upload the following items to Brightspace before the due date:

1. Two screenshots of your LoginExample app running on the CST8227 AVD emulator. First screenshot shows LoginActivity, and the second screenshot shows HomeActivity (i.e. a successful login).
2. AndroidManifest.xml
3. LoginActivity.java
4. HomeActivity.java