

# Android Development Fundamentals

## Android 210 Winter 2015

### Homework 2

#### Description

Create an Android application that processes user input.

#### Use Cases

1. The User launches the application, there are two EditText fields, a checkbox(with text) and a Submit button on the main screen which takes user input.
2. User enters name, email, selects the checkbox (or leave it unchecked) to indicate whether to sign up to receive newsletter via email.
3. The User presses the 'Submit' button on main screen and a second screen is displayed, with data input from previous screen.
4. When the user presses the back button from the second screen, they return to the data input screen.

#### Requirements

Create a **Ice Cream Sandwich-compatible** Android application that has two screens.

**Please see the wireframes on page 3.** Please Note this homework focuses on taking user input and displays them on screen 2. You are not required to produce the exact UI as in the wireframes, unless indicated below explicitly.

**Main screen** displays two EditText fields, checkbox and a submit button.

- EditText fields - should have hint text set properly (i.e. Name and Email). This will help guide the user on what data to enter. You should also save the state of the EditText fields so that the data entered are not lost when screen rotates to another orientation.
- Checkbox - make it selected by default. User can choose to deselect it. The checkbox should have text as "Sign up to receive newsletters via email".
- Submit button - clicking on the submit button will take user the second screen, where the data collected from the user are displayed.

#### **Second Screen**

- Display user name, email and newsletter signup choice on the screen.
- The signup choice is displayed as either Yes or No depending on the checkbox state from previous screen.

Name the application "Homework 2" and verify this is reflected on the Application title on the first screen when running.

#### Points

There are a maximum of **12** points for this homework.

### **Requirement Points (8 points)**

- 0 points You didn't try.
- 5 points The application doesn't work – but you tried.
- 8 points The application works and fulfills all the requirements.

### **Bonus points (2 points)**

You get two bonus points for data input validation on the first screen:

1. Name EditText - user must enter a name; otherwise indicate error when the Submit button is pressed.
2. Email EditText - user must enter an email in a valid email format; otherwise indicate error when Submit button is pressed.

### **Discretion Points (2 points)**

- 1 point Clean, consistent code (You may have applied a style formatter)
- 1 point Useful documentation (From a few key inline notes all the way to JavaDoc quality documentation)

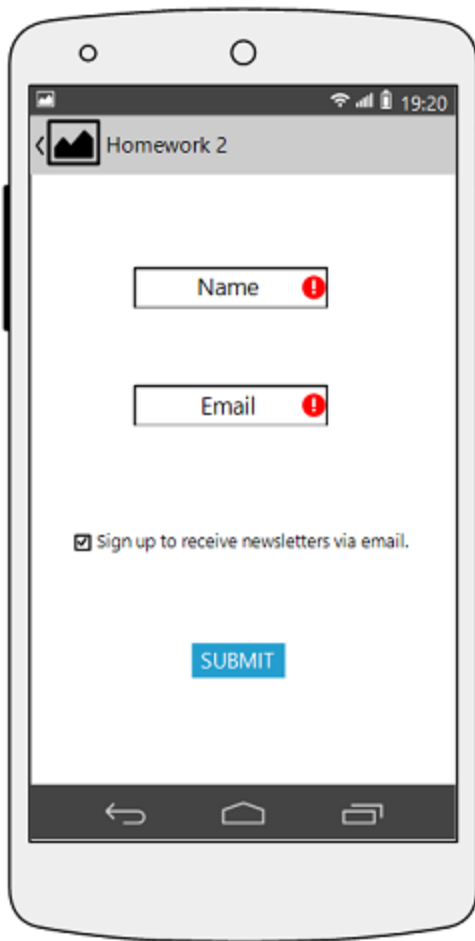
### **Delivery**

Zip up the project directory into a zip file **{YOUR UW Net Id}-hw2.zip**. (For example, margam-hw2.zip.) Upload the homework zip file to catalyst homework dropbox.


### **Delivery Points Modifier**


- 100% Homework is delivered before Monday, Feb 9, 2015 @ 5:59pm
- 0% Homework is delivered after Monday, Feb 9, 2015 @ 5:59pm
- **No late homework is accepted!**

## Screen 1: User Input



Homework 2

Name 

Email 

☒ Sign up to receive newsletters via email.

SUBMIT

The image shows a mobile app interface for 'Homework 2'. It features a title bar with a back arrow and a mountain icon. Below the title bar, there are two input fields: 'Name' and 'Email'. Both fields have a red error icon to their right. Below the input fields, there is a checkbox labeled 'Sign up to receive newsletters via email.' which is checked. At the bottom of the form is a blue button labeled 'SUBMIT'. The status bar at the top shows the time as 19:20 and signal strength icons. The bottom of the screen shows the Android navigation bar with back, home, and recent apps icons.

## Screen 2: Confirmation



Screen 2

Name: John Miller

Email: johnm@gmail.com

Signed up for newsletter: Yes

The image shows a mobile app interface for 'Screen 2'. It features a title bar with a back arrow and a mountain icon. Below the title bar, there are three lines of text: 'Name: John Miller', 'Email: johnm@gmail.com', and 'Signed up for newsletter: Yes'. The status bar at the top shows the time as 19:20 and signal strength icons. The bottom of the screen shows the Android navigation bar with back, home, and recent apps icons.