

Android Development Fundamentals

Android 210 Winter 2015

Homework 1

Description

Create an Android application that launches another activity.

Use Cases

1. The User launches the application, there are two TextViews and a Start button on the main screen.
2. User rotates application between modes (portrait and landscape), and the TextViews and Start button adjust positions accordingly to a different layout.
3. The User presses the 'Start' button on main screen and a second screen is displayed.
4. When the user presses the back button from the second screen, they return to the Start button screen.

Requirements

Create a **Ice Cream Sandwich-compatible** Android application that has two screens.
Please see the wireframes on page 3 for UI details.

Main screen displays two TextViews and a button.

- **Portrait mode:** The two Textviews take up 50% of the screen height and each TextView takes up 50% of that top container. The start button will be centered vertically and horizontally in the remaining 50% of the height (bottom container).
- **Landscape mode:** The two TextViews stacks vertically in the left container while the Start button is centered in the right container.
- Other requirements:
 - screen title is "Homework 1".
 - first TextView has text "Welcome to Android" with font size of 22sp.
 - second TextView has text " This is the first screen." with font size of 18sp.
 - the height of the button is 64 device independent units tall and the width is set to match the text content. The text of the button is "Start" in U.S. English.

Second Screen:

- Has a purple (Hex #AA66CC) background.
- Screen 2 title is "Second Screen".
- Has these UI elements:
 1. Top of screen: A TextView with text "This is the second screen."
 2. Middle of screen: Then other three TextViews stacked vertically.
 - first one aligns left
 - second center horizontally
 - third one aligns right
 3. Bottom of screen: an image - you can use the image provided or your own.

- All text on screen are white.

Name the application “Homework 1” and verify this is reflected on the Application title on the first screen when running.

Points

There are a maximum of 10 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.

Discretion Points (2 points)

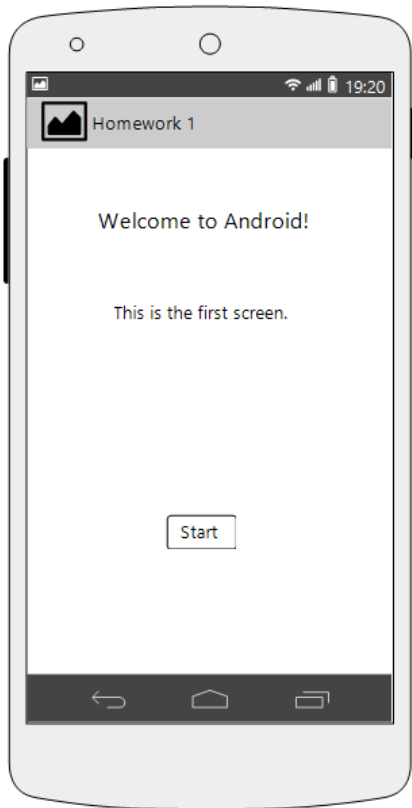
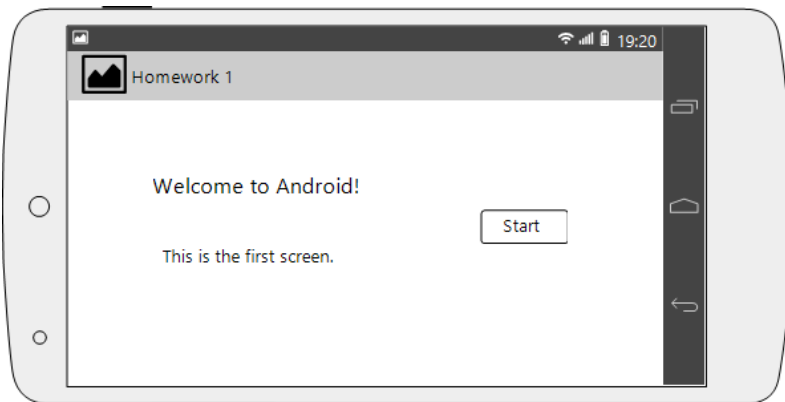
- 1 point Clean, consistent code (You may have applied a style formatter)
- 1 point Useful documentation (From a few key inline notes all the way to JavaDoc quality documentation)

Delivery

Zip up the project directory into a zip file **{YOUR UW Net Id}-hw1.zip**. (For example, margam-hw1.zip.) Upload the homework zip file to catalyst homework dropbox.

Delivery Points Modifier

- 100% Homework is delivered before Monday, January 26, 2015 @ 5:59pm
- 0% Homework is delivered after Monday, January 26, 2015 @ 5:59pm
- **No late homework is accepted!**

Screen 1 Portrait Mode:	Screen 1 - Landscape Mode:
	

Screen 2 Portrait & Landscape with same layout:

