

MAD Final

Instructions:

You have an entire class period to develop the following Android app. You can use any reference material you find helpful. It is suggested that you start at the first task and work down the list. The tasks are listed in an order such that they can be implemented after the previous ones. The goal of this final is to test your technical proficiency so focus on getting each task working. Add additional complexity and aesthetics at the end, time permitting. I highly suggest creating multiple versions of your project (duplicate your project folder in the Finder) so you have a version saved after each task. Post your completed project to github at the end of the final. (You can post more than 1 version if an earlier version worked but you want me to see the progress you made on a later non-working version).

Create an app based on the mock-up provided that builds your favorite burrito and then suggests a burrito place in Boulder. Please include your name in your project name and don't use the word final alone as it's a reserved word in Java. Example: PierceFinal.

1. Build your favorite burrito. 30 points
 - a. TextView for heading
 - b. Button to generate favorite burrito
 - c. Textview to display favorite burrito details
2. Let the user make their burrito choices using THREE of the following user interface controls. Additional controls for extra credit. 10 points/control
 - a. Toggle button – filling: meat or veggie
 - b. Spinner – location: The Hill, 29th Street, Pearl Street
 - c. Radio buttons – type: burrito or taco
 - d. Check boxes – toppings(salsa, sour cream, cheese, guacamole)
 - e. Switch – gluten free (will suggest a corn tortilla)
 - f. EditText – name your burrito
 - g. Image view that is set based on the burrito type radio buttons (burrito or taco) or other
3. Suggest the best burrito place in Boulder based on the location from the spinner value (or use other criteria)
 - a. Generate burrito place suggestion 20 points
 1. The Hill: Illegal Petes
 2. 29th Street: Chipotle
 3. Pearl Street : Bartaco
 - b. Button to show the suggested burrito place in a new activity 20 pts

Requirements:

- Use string resources for your UI control text

Extra credit:

1. Add additional UI controls from #2.
2. Implement the functionality in step 3a in a custom Java class 10 pts
3. Explicit intent – load the web site of the burrito place 10 pts
 1. The Hill: Illegal Petes <http://illegalpetes.com/>
 2. 29th Street: Chipotle <https://www.chipotle.com/>
 3. Pearl Street : Bartaco <https://bartaco.com/>
4. Create screen layouts that look good and are easy to use on phone screens in landscape as well. 10 pts
5. Add an activity that shows the burrito place on a Google Map 10 pts
6. Localize your app into another language. 10 pts