

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 pizza and then suggests the best pizza place in Boulder for that type of pizza. Your app should use string resources.

1. Build your favorite pizza 20 pts
 - a. TextView for heading
 - b. Button to generate pizza
 - c. Textview to display type of favorite pizza
2. Let the user make their pizza choices using TWO of the following user interface controls: (20 points each – 5 points for the UI control(layout and string resource), 15 points for using it in your programming logic) . Additional controls for extra credit.
 - a. Toggle button – sauce: white or red
 - b. Spinner – size: small, medium, large
 - c. Radio group – crust: thin or thick
 - d. Check boxes - toppings
 - e. Switch – gluten free
 - f. EditText – name your pizza
 - g. Image view – pizza type: cheese, veggie, meat, supreme
3. Suggest the best pizza place in Boulder
 - a. Button to generate pizza place suggestion 20 pts
 1. Thin crust: Pizzeria Locale <http://localeboulder.com/>
 2. Thick crust: Old Chicago <http://www.oldchicago.com/>
 3. Gluten-free: Beau Jo's <http://www.beaujos.com/>(or use other criteria)
 - b. Implicit intent – show the suggested pizza place in a new activity 20 pts

Extra credit:

Implement the functionality in step (a) in a custom Java class 15 pts

Explicit intent – load the web site of the pizza place 10 pts

Create a screen layout that looks good and is easy to use on phone screens in landscape as well. 15 pts

Localize your app into another language. 15 pts