Lab Assignment: Kitchen Helper PDA Application

Due Date:

I recently bought a great book about how to make ice cream from scratch. The only problem is that the book is from Europe and all of the measurements are in ounces, pints, quarts, liters, etc. and I am only used to cooking with standard American baking cups (1 cup, ½ cup, etc.). Dragging my computer into my kitchen is not an option, but I do have a PDA that I can use anywhere.

Your mission is to create a PDA application that will convert quantities from one measurement to another measurement so that I can enjoy some yummy ice cream.

Description

The PDA application will only have one screen with one text box to enter quantities, one button to press when the user is ready to do the conversion, and two groups of radio buttons to select the original measurement type and what measurement to convert to.

- The text field should only accept numeric input, periods, and -/+.
- If the text field is empty, but the user presses the convert button, an error message should appear asking the user to insert quantity.
- When the application starts, one button in each radio group should be selected.
- You should include the following measurement types: cups, ounces, pints, quarts, and liters.
- If the text field has input and the radio buttons are selected, when the users presses the convert button, a dialog window should pop-up showing the converted quantity and the measurement name (i.e. 2.6 cups, 3.1 pints, etc.).

Here is an example of what your program should look like:

Resources

The assignment uses all of the interface components we learned about in the HelloWorld_Personalized class example. Please use the class notes, the Superwaba Java Doc, and HelloWorld_Personalized example to complete this lab.