Extra Credit Applet Project

CS 116

Dec. 4, 2002

The following extra credit applet is to be completed **individually**. You may *not* do the work as a group project nor may you use the SI. (View it as a take-home exam.) To turn-in your project, e-mail it as an attachment to `kelliher@goucher.edu`. The project is due Wednesday, December 11 by 5:00 PM and is worth 20 extra credit points. Late projects will not be accepted.

Help me keep track of all my stuff! I need an inventory tracking system. The system should have these features:

- A way of entering new inventory items.

- A way of searching the inventory to determine if a particular item is or isn't in inventory.

- A display to show how many more items can be added to the inventory.

- Storage for 10 items, but **easily** modified to accommodate larger inventories later. ("Easily" is defined as having to change only one line of code.)

- A warning when I try to add something to the inventory when it is already full.

- A visually appealing GUI design.

- Well-documented source code, as defined by the Program Documentation Standards document you were given in class (and available on the class home page under the Class Materials entry for Oct. 30).

- Because I'm easily confused, the result display (found, not found, no slots available message), should be cleared as soon as I click the mouse in the item input widget or even just move the mouse to that widget. Similarly, the message should be cleared, as appropriate, when entering a new item into the inventory.

Can you help me keep track of all my stuff? A working sample of the applet is available on the class home page. The behavior of your applet should match the behavior of the sample. Similarly, the look of your applet should be similar to the look of the sample (this will require the use of various panels and layout managers). The grading criteria will be:

1. Program behavior: 10 points.

2. Visual elements: 5 points.

3. Documentation: 5 points.