

EECS 423
Distributed Systems
2005 Fall Semester

Homework 2

Due at the beginning of class, September 22, 2005
No late papers accepted

Starting with this assignment, all homework will be completed by groups of 3-4 students. Please, state the names of all the students in the group.

In this assignment, you will design a Graphical User Interface (GUI) for an e-parcel client. You will implement the GUI in your next assignments. The design should consist of:

- GUI diagrams showing the main toolbars, menus, pop-up windows and such, with
- A written explanation of the effect of any event such as clicking, right-clicking, and so on, and
- A test suite (see below)

The GUI should support all e-Parcel functionality and it should simplify the job of the end-user. However, it should avoid rampant featurism. Your assignment will be graded on its quality and on its support for the protocol, but not on the number of features in your interface. Furthermore, since you will implement the GUI in future assignments, an overambitious GUI could compromise your ability to hand in working software. In short, quality above quantity, and avoid featurism.

The last part of your assignment is a test suite. A test suite is a collection of test sets. Each test case is a sequence of actions that an end-user could generate for a clear purpose.

Example. A test case for Mozilla could be:

User objective. Download this assignment from the course Web site.

Test case. The user would generate the following events

<i>Action</i>	<i>Effect</i>
Click on File	File menu appears
Click on Open Web Location	“Open Web location” window appears
Type in: http://www.eecs.cwru.edu/courses/eecs423/	Text appears
Select “Current Navigator window” from the “Open in:” menu	Option chosen in menu
Click on Open	EECS 423 Web page displayed
Click on Assignments	Web page scrolled to assignment section
Click on Homework 2	Homework 2 displayed in Acrobat Reader window

The test cases should be written so that they are independent: the same outcome should ensue independently of whether another test case was previously run. For example, a test case should not assume that a previous run created an e-Parcel stub. Write at least 3 test cases. The test cases should be of increasing complexity. Make sure to exercise as many features of your GUI as possible across the test cases.

Hand in your design of the e-Parcel client GUI and a description of the test cases.