
CS 482, Spring 2009
Assignment #4
Software Maintenance
Squared!

Due 3/20,27/09, in class

Introduction

Part 1 of your project is to add a mouse over plugin to Eclipse that, when activated, shows the expansion of abbreviated identifiers to the user.

The initial version of a piece of software as released to the *customer* is version 1.0. After its release, the software enters its maintenance phase. During this phase enhancements and bug fixes are considered, analyzed, designed, implemented, and tested.

Your Client

Programmer by ahrs.

Did you read the above line as “programmers are often mixed up by abbreviations”? The CEO of *Expand Your Possibilities Software* (are very own Dr. Lawrie) is in need of someone to analyze, design, implement, and test an Eclipse plug in to automate the expansion of abbreviations. Such an enhancement to an existing system (in this case Eclipse) is one kind of software maintenance. The initial designers for Eclipse were kind and designed Eclipse to be extensible.

The Assignment — Version 1

Work your way through the software engineering process chatting with Dr. Lawrie as necessary. Dr. Lawrie will come to class on 3/9. Please don't waste her time by being unprepared for this client meeting!

What to hand in (on or before 3/20) [recommended (idealized?) target completion date]

- (1) A well formatted printout and a tar ball including your plugin that include the following.
 - Feasibility study (≤ 1 page) [target date 3/4]
 - Project plan (≤ 1 page) [target date 3/6]
 - Requirements (≤ 1 page) [target date 3/6]
 - Design of user study (primarily dealing with the GUI) (≤ 1 page) [target date 3/9]
 - Test plan (1-2 pages) [target date 3/9]
 - Analysis [target date 3/11]
 - Design [target date 3/13]
 - Code (2up please) [target date 3/17]
 - Testing [target date 3/20]
- (2) Demo your tool to the client. This will be done in class on 3/20.

Notes

- (1) Work in pairs, but with someone new (*i.e.*, no repeat pairings).
- (2) I'll be happy to look at your intermediate steps, but get less happy closer to the deadline :)
- (3) Time invested in learning the process now will be repaid many fold when doing the course project.

The Assignment — Version 2 (due 3/27)

TBA :)