

## CSE 403 – Spring 2006 Assignment 6

**Goal:** Develop the final release of your product using good software engineering practices.

**Due date:** Tuesday May 30<sup>th</sup>, before 10pm, turnin –c cse403 –p final

**Presentation dates:** Wed May 31<sup>st</sup>, Thurs June 1st, in class and section

### Deliverables (100 pts)

1. A final release of your software. A final release should show functionality targeted for Release 1.0 in place, integrated, and working, for all pieces of the system. Quality is important. The features in place should be solid and ready for use by a real customer base.

A "release" includes several elements packaged in two distributions.

- a. Binary (deployment) distribution. The minimal elements needed to run your application only. A separate zip file for each host (client, server) is often a clean way to organize this. The release should include:
  - a. (35) Solid, polished, product. Good user experience. Stable – ideally no bugs tripped over during the evaluation process. Revisit the LCA use cases; do they operate as spec'd?
  - b. (1.a.b & 2.a.b - 5) Release notes, indicating how to install the system and major changes from the last (beta) release. Release notes should include a list of outstanding limitations (bugs) along with a rating of their severity. Please include a reference to the identifier in the bug database for each outstanding issue.
  - c. (5c&d) A one-step install process - all setup must be hidden from the user, they just click on an icon or execute a command.
  - d. A one-step run - all setup must be hidden from the user, they just click on an icon or execute a command.
  - e. (10) Final admin and user documentation.

If your project needs an initialized data base (or some other initialized server data set) to show its operation, please provide a demo area with the data, and instructions on how to target the binary distribution to use this.

- b. Source (development) distribution. The elements needed by someone who is going to pick up the project at this stage and do further development. Again, a separate zip file for each host target is often a clean way to organize this. The distribution should include:
  - a. The source package.
  - b. Clearly identified release notes that describe the layout of the source tree(s) and how to unpack the source package and build the product from the original sources.
  - c. (10c&d) A one-step installation of sources from the source package (a configure, make, make install process is acceptable).
  - d. A one-step build of sources and creation of installation packages.

- e. (5) Up to date software architecture document, to enable a developer picking up the package to more quickly become familiar with it. Note, if you are revising an earlier document, please flag the changes by turning change tracking on, or using a different color or change bars.
  - f. (5) A snapshot of the bug database, indicating known problems yet to be addressed, along with their severity/priority.
  - g. (10) Test suite, ideally in automated form, including unit, system, and acceptance tests, together with instructions on how to run them and the latest set of results achieved with the final release
- 2. (5) The latest version of your schedule, showing what has been accomplished and what is remaining. Include a list of features initially planned but now moved to a later release; please explain the tradeoff you made when deciding to move the features out.
  - 3. (10) A short (10 min) presentation/demo to update *the customer* with your progress.

### Turnin

**One of the team members should turn in all the deliverable material together** so that there is one coordinated input for the team. Use the “turnin” script, “`attu% turnin -c cse403 -p final <final files>`”. Put the team name in the filename of all components submitted, i.e., `cool_server.tar`, `cool_client.tar`, `cool_planning.doc`.

### Grading

The final phase review is worth 20% of your final grade, broken down as follows: 15% is a group score based on the deliverables specified herein; 5% is an individual score based on your self, peer, and staff reviews.

For the individual component of the review, you will be asked to identify for yourself and your team members: strengths to sustain, areas to improve, rating of technical contribution, rating of team contribution. More details will follow separately. This individual component will be administered separately from this turnin.