

## CSE 403 – Winter 2011 Assignment 7 – Final Release

**Due date:** Thurs March 10th, by 11:00pm (Presentation due by 2:30pm in class)

**Presentation dates:** Thurs March 10<sup>th</sup> and Fri March 11<sup>th</sup> in section and class

### Overview

Release day is here! Your customers can't wait to receive the delivery of their product. This assignment is the final milestone delivery. Your adoring fans, fame, and fortune await. Full milestone payment will be given for a product that meets their requirements including reliability, extensibility, and maintainability. Evidence of good software practices during development is sure to convince them of these features.

### Deliverables

1. A final release of your software. A final release should show functionality targeted for the Final release, as outlined in your SRS feature list, 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.

The "final release" includes several elements packaged in three distributions:

- a. Installed solution. [16 pts] Please provide a URL for a "live" version of your site. The customer will use this for their initial evaluation.

The deliverable, which is also reflected in b. and c. below, will be graded on whether it reflects substantial work and effort on the part of your team, has a solid and polished user experience, and successfully implements the features and use cases committed to in the SRS. Your product need not necessarily be 100% bug-free to receive full credit, but any known bugs must be backed by a bug report. Your system should be robust so that errors occur gracefully as much as possible.

- b. Binary distribution. [5 pts] The elements needed for the customer to install your product on a server and run it remotely. For your web or android application, this may be a server package (zip file) and a url to invoke or android app to download. You do not need to package the database as part of the server for this assignment. The release should include clearly identified Release Notes in the package file that describe (1) how to install and run the software and (2) any defects, along with the bug report numbers that corresponds to them. Part of your grade will be determined by how adequate these instructions are.

*Please assume the staff knows nothing about your platform and toolset and be very specific with the commands to execute to do the server installation. Please ensure the staff have access to your system database and your bug database.*

- c. Source distribution. [26 pts] The elements needed by a developer who is going to pick up the project at this stage and do further development, *including tests*. A separate package for each host target and one for the test suite is often a clean way to organize this. (You do not need to describe the underlying database installation for this assignment.) The source distribution should include clearly identified Developer Release Notes in the package that describe how to build the product from the original sources. The release notes should state any development environment assumptions, such as a Visual Studio or Eclipse or Android emulator installation. The test package should include directions to run

the tests, *and* the latest set of results (tests passing, tests failing) achieved with the Final release.

*Again, please assume the developer knows nothing about your platform and toolset and be very specific with the commands to execute to build.*

This source package will be graded on whether it demonstrates the following attributes:

- substantial work and effort by the development team
- system design making use of design patterns, principles, and heuristics as appropriate (please use internal comments to identify these, and provide us with file names/line numbers of specific examples)
- adequacy of the Release Notes for the build process
- ease at which a correct build can be made
- ease at which a developer could progress the system from this point (good internal documentation helps with this)

The test package will be graded on whether it includes:

- unit tests, integration/system tests, automation wherever possible
- good coverage based on these tests (if you have data that indicates coverage, please include it)
- latest test results (a launching board for future development)
- ease at which the tests can be understood and run by a new developer (instructions are necessary)

- d. Final admin and user documentation. The product documentation may be through manuals (admin and user) or online (user) help. The medium should positively impact the user experience. The document should cover all major areas of usage of the system and be both complete and of good quality.
2. Updated System Requirements Specification (SRS) and System Design Specification and Plan (SDS) documents, with change tracking on (use as the baseline version, the Beta documents). [3 pts] Focus on the content changes, not the polish, for this deliverable.
3. A measure of how well designed and extensible your system is, by identifying exactly what components must change, and how, to accommodate [3 pts]:
  - a. WikiGraph and WikiMap: Use with another online encyclopedia that unfortunately has a different database schema.
  - b. MyKitchenManager: The addition of a new online grocer.
  - c. FIN: Tracking locations of bike racks.
  - d. SimpleFamilyPhotos: Allow sharing and searching of video clips.
  - e. CouponStash: The addition of a fast-food coupon category.
4. A reflection of your top three lessons learned from the project experience. [3 pts] The lessons can be in terms of specifications, design, planning, teaming, execution, etc. What worked exceptionally well and/or what would you do differently next time?
5. A final release demonstration in class (10 minutes). [3 pts] The customer would like to see, in particular: (1) Working functionality – a live demo of what you have accomplished; and (2) Reflections on your experience (you may want to use powerpoint for this). This is your opportunity to show off your deliverable and impress your customer in person. The customer is

looking for a polished presentation with all group members present, ready to share the commendations.

**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 Turn-In link on the class web page. Put the project name in the filename of all components submitted, i.e., cooltool\_source.tar, cooltool\_binary.tar, cooltool\_supportingmaterial.doc, cooltool\_pres.ppt.