

CSC 493 Senior Projects

R9: Report on the Work of Week 9: Beginning the Test Plan

On the structure, format, and purpose of the weekly reports

Be sure you have read http://faculty.berea.edu/pearcej/csc493/R_OnReports.pdf because you will be expected to follow the guidelines stated there for each weekly report. In particular, each weekly report must be formatted as described there and must include the cover page, the Application Development section, and the Executive section as described there.

Summary of the task for inclusion in the Application Development Section

This week, your task will be to create a preliminary Test Plan and a set of preliminary Test Cases.

The Test Plan should provide a summary of the testing activities and the overall approach to the test. It can be a fairly short section as long as it is clear. The majority of the test planning time is focused on creating the Test Cases, which each provide a specific description of an interaction with the software that a tester plans to do in order to test one single behavior of the software.

A typical test case is usually laid out in a table format and contains:

- A unique name and number (which may be related to the requirement number, but are typically not identical).
- The specific requirement that this Test Case is intended to test.
- Preconditions which detail which state of the software needs to be in to exercise the Test Case (sometimes this is a previous Test Case that must always be run before the current Test Case.)
- Steps that describe the specific steps that make up the interaction with the software to run the Test Case
- The desired results that describe the desired state of the software after the Test Case is executed successfully

Note: An example of a well-written Test Case can be seen at: <http://www.stellman-greene.com/aspm/content/view/39/41/>. Please note that this same link contains a description of a Test Plan which contains somewhat more detail than will be required for our purposes, but the example Test Case is certainly appropriate.

It is expected that by next week, you will have a Preliminary Test Plan and will have developed a Test Suite with at least one Test Case for each of the requirements listed in your Software Requirements Specifications (SRS).

As before, you will be submitting:

- Your plain text document entitled README.txt and the code for all software components (submit all components regardless of whether or not they have changed) with header-style descriptions in each software component as well as internal documentation through comment lines.
- Your updated Weekly Report in pdf format.

Application Development Section of the Report:

The Application Section of the report should be divided into the following sections, revising only as needed and clearly indicating any revisions with what was changed and when it was changed.

- **The Project Concept Proposal** (indicate and date all updates)
- **About the Author (or other appropriate name)** (indicate and date all updates)
- **Inspiration** (indicate and date all updates)
- **Vision and Scope** (indicate and date all updates)
- **Software Requirements Specifications** (indicate and date all updates)
- **System Design and Architecture** (indicate and date all updates)
Be sure to update your software architecture as you expand the implementation!

- **Implementation** (indicate and date all updates)
Be sure to list all submitted files with the README.txt listed first. Briefly describe the correspondence between all of the software components in each file and the related Software Design element of the Software Architecture as well as the date the software component was completed.

- **Known Bugs and Other Issues – in YourProjectName 0.1 beta** (or appropriate name and #)

Please add the following section:

- **Preliminary Test Plan and Preliminary Test Cases**

Report Format and Submission:

Convert the file to a pdf, name the file *yourusername-R9.pdf*, and submit into our course management system in time to meet the stated deadline.