

## Systems Development: Testing Assignment

### Background

After development, we need to test our system to verify it does in fact meet the customer requirements. This assignment includes writing test documents and executing a customer acceptance test.

### Due Date

All tasks for the assignment must be completed by July 4, 2007. Since the last task is customer acceptance testing, you must schedule a demonstration before that date.

Work on this assignment is to be done separately by each student. Groups may not work together. Cheating will be caught and punished.

### Requirements

There are three major tasks for this assignment: write a test plan, write test steps, and perform a demonstration. The two documentation tasks must be completed before the demonstration.

### Specific Requirements

#### Schedule Work Task

As with many previous assignments, schedule time for completing the assignment tasks. This schedule will be checked at the demonstration.

#### Test Plan

Create a test plan for the system just developed. This document must include a table with the following columns:

- Test ID.
- Test name.

- Associated requirement ID.
- Associated requirement name.
- Test type needed to verify the requirement: analysis, inspection, execution, verification.
- A one sentence description of the actual test.
- A description of the input data needed by the test, if any.
- Success criteria: the output the test will generate if the test passes.

You may place this information in a spreadsheet table, a document table, or a free-form document. Use a consistent appearance for all requirements so it is clear to the reader exactly what elements apply to what requirements.

Remember it is possible to verify two requirements with one test. It is also possible one requirement may demand two or more tests for complete verification. The test plan should make these cases clear when warranted.

### Test Steps

For each test identified in the plan, document all of the steps necessary to execute the test successfully. The final step should explain how to verify the test passed. Each step should have sufficient detail yet be simple enough that the customer could execute the test from reading the steps if desired. A sample test steps document is on our course web page.

### Customer Acceptance

Schedule an appointment with one of the GITC staff members assigned to this course (Arman, Narine, Samvel) for a customer demonstration. The staff member will pick a few tests at random to see those tests performed. Execute the test with the staff member witnessing each step. Let the staff member verify the test passed.