**Project 1 revisited: UML description and tests**

**Due in lab, Monday, October 15**

Apply the UML-based design method to the requirements given for project 1. Specifically:

1—From the requirements develop

Two functional use cases

One quality use case

Give graphical and text descriptions for the functional use case.

Give a text description of the quality use case.

2---For each use case you defined, give one or more system acceptance tests. The tests should include actual values to be applied during testing, they should not be vague statements. For each use case, the tests should be complete, i.e., they should be designed to serve as acceptance tests for the customer.

3—Define the modules you will need to support your use cases. Decide whether each module should be implemented in hardware, software, or “either” and give reasons for your decision.

4---Define “black box” tests for each module in 3 and for any module interactions. Be specific about test values to use and expected results. Again, choose tests that provide sufficient coverage for your modules and interactions.

5---Using the modules you defined in 3, provide sequence diagrams to show that your modules will enable you to support the two functional use cases you defined in 1.

6---Finally, provide a state diagram for your system.

Note: in all sections, try to apply the UML notation given in class. If necessary, clearly define any additional notation you need to complete the assignment. You do not need to search the web to find exact UML notation for this assignment, the concepts are what we are focusing on here.