# CptS 322 Software Engineering Principles I

# Spring 2017

# Project Milestone 7
(Due Monday/April 28th, 2017 on Blackboard)

## Milestone Description:

After the design is implemented, the next step is to check if your implementation works as expected with respect to the design and requirements. This milestone focuses on testing, which is also part of the *construction* (framework) activity. Your team will develop test cases to test your code, including unit test cases and validation test cases.

Specifically, you will develop at least one unit test case for each component (with respect to your architecture and component-level design) and at least one validation test case for the entire system as a whole (with respect to one of the use cases you have developed earlier for requirements modeling).

## What to submit:

A single PDF, where you:

- Describe one unit test case for each of your components
- Describe one validation test case for the entire software system

For each test case, use the following description template:

| Test case type | *Unit test (or validation test)* |
|----------------|----------------------------------|
| Test target | *The name of target component (or the name of your system)* |
| Test input | *Refer to the example given in class* |
| Expected output | *Refer to the example given in class* |

## Hints:

-As suggested earlier in class, the team should split the implementation tasks among the team members such that each team member will be responsible for implementing one or more components. Now it would be the best to let the member who implemented a component to develop the unit test case(s) for that component.

-Then, the entire team develops the validation test case(s) together.