## User Story 001

**As a software developer I want to be able to run individual unit tests of program code in a test framework / harness.**

1. The test framework / harness shall be an application that can run on the Windows platform.
2. The application shall not require changing and recompiling the program each time a test is run.
3. The application will have a Graphic User Interface that will allow:
   1. The developer to choose which test(s) to run (some type of file dialog / list box).
   2. The developer to build a list of all test(s) to run (container object on GUI).
   3. Shall show all tests selected to run.
   4. Shall show test progress and status on the GUI.
4. The application shall allow multiple tests to run at one time. The application will allow the tests to run asynchronously so that no one test will hold up the others.
5. The application will log all test results to an external file AND to the screen in some type of GUI container.

# User Story 002

**As a software / System Architect I want to be able to run multiple tests at once.**

1. The system shall be a desktop client application available to me on demand.
2. Shall allow for installations on multiple machines (redundancy).
3. If during the test, the application throws an exception, the system handles it.
4. If during the test, the test itself throws an exception, the system handles it.
5. The thread pool shall be managed to a distinct size and can vary based on user demand
   1. Minimum thread count = 5.
   2. Maximum thread count = 15 (this keeps the application from spawning too many threads).
6. The tests show pass/fail.
7. The log component shows different levels of logging (INFO, DEBUG, ERROR)
   1. INFO describes specific information for test pass/fail reporting.
   2. DEBUG describes programmer/developer provided information to aid in debugging the test.
   3. ERROR describes the most detailed debugging output for examination of software test failures.
8. The log has time and date stamp and duration of test.

## User Story 003

**As a Test Engineer or QA personnel, I want to be able to provide a test case where several tests are sent in quick succession to demonstrate the application executes tests concurrently.**

1. The test case shall be several tests of varying duration that can run simultaneously.
2. Upon completion post a ready status message and await the next test.