The Vaadin TestBench software appears to run on <= WinXP. **Unknown on Vista and failed on Win7**.

The latest Java JDK and Apache Ant are required to be installed with appropriate environmental paths set to each respective “bin” directory

Apple Quicktime will need to be installed on Win PCs: [www.apple.com/quicktime/download](http://www.apple.com/quicktime/download)

Install the latest FireFox Browser: [www.mozilla.com](http://www.mozilla.com)

Install Adobe Flash Player: <http://www.adobe.com/products/flashplayer/>

**Optional:** the Open Command Window Here PowerToy is a good utility to open Windows Explorer directories with a right click menu context: <http://go.microsoft.com/fwlink/?LinkId=211471>

Obtain the vaadin test bench software from: <https://savage.nps.edu/norbraten/vaadin-testbench.zip> and install to a “java” project space.

**Optional:** this version of the vaadin test bench is also a NetBeans project (makes it a bit easier to run vice command window/terminal).

**Optional:** in FireFox, open the Add-ons Manager (Tools -> Add-ons) and install from file: vaadin-testbench-recorder-2.2.0.xpi from vaadin/vaadin-testbench-recorder directory

**Optional:** you should be able to see Vaadin TestBench Recorder 2.2.0 in the Add-ons Extension list, also in the Tools pull down menu

**Optional:** in FireFox, go to: <http://test.mmowgli.nps.edu/cluster/> <- include the forward slash. You may need to get past the first authorization login by (can “save” this login):

User: fuzzy P/W: walrus

**Optional:** select the Vaadin recorder from Tools -> Vaadin TestBench Recorder (make sure the red record button show a little white in its shadow so that you know it’s recording). Also, place the base URL of <http://test.mmowgli.nps.edu> into the Base URL window of the recorder

**Optional:** login to the MMOWGLI site using one of user logins are already registered in the system: **testbench0 - testbench54** (P/W: **test**). You should see clicks being registered in the recorder to know that it’s working. Once finished with exercising links, stop the recording and save the test script to vaadin/mmowgli/testscripts with a unique name, i.e. **loadTest.html**

**Optional:** open a command window/terminal in the “vaadin-test-bench” directory and run: **ant create-tests**. You should then see that the “loadTest.html” file in “testscripts” was used to create java source in mmowgli/temp-dir/src.

**Optional:** modify the created JUnit test source files to include a loop in the public method test\* to loop the method “internal\_loadTest()” several times.

Note: Be careful with the clean task as it will wipe out all JUnit generated source code.

Open a separate command window/terminal in the “vaadin-test-bench” directory and run: **ant run.hub** then open another separate window/terminal in the “vaadin-test-bench” directory and run: **ant run.rc**

Note: the hub must be started first before the remote-control

In a third command window/terminal run: **ant run-tests** and verify that you see your recorded script run in each browser designated for your machine

Once the tests have completed, or you need to stop them, from the command window/terminal that you started the tests, run: **Cntl C**, then: **ant kill.hub.rc**. Thiswill kill ALL java processes running on that machine. From NetBeans, just hit the red square stop button for each of the hub and rc processes.