**Saiku UI Automation Test**

**Instructions**

The automation tests are based on Saiku version 2.4 using the Food Mart database. It contains 40 tests and supports the browsers Internet Explorer, Firefox and Chrome on Windows, Firefox and Chrome on Linux platforms.

**Machine preparations**

**On Selenium server machine**

Selenium server can be setup on Windows or Linux platforms. The following instructions are based on the Windows platform.

1. Install Java and Java SE development kits (JDK)

The locations to download and install are below.

http://java.com/en/download/index.jsp

http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html

2. Reconfigure the following files, according to the file locations and settings on the server.

..\run-auto-test-from-command-line.bat

..\Saiku-UI-Tests-Source-Files\src\main\Config.java

3. Determine which browsers to test

testng.xml file can be configured to control which browsers to test. Currently it is set to include three browsers on Windows platform and two browsers on Linux. If you only want to test on one browser, you can keep your preferable one and comment out or delete all others.

The testng.xml is located under the directory of "Saiku-UI-Tests-Source-Files".

**On Selenium client machine**

- Windows machine

1. Configure IE options, set “Enable protected Mode” for all Security zones to be the same value.

2. Install Firefox and Chrome.

3. Copy "Selenium-batch-files\Windows" directory and reconfigure "runSeleniumHub.bat" file to point to Selenium server machine.

- Linux machine

1. Install Chrome (Firefox should be installed by default).

2. Copy "Selenium-batch-files\Linux" directory, configure "runSeleniumHub.sh" file to point to Selenium server machine.

**Launch the automation test**

**On client machines**

Start Selenium node by executing the files "runSeleniumNode.bat/runSeleniumNode.sh"

**On Server machine**

1. Start Selenium hub by executing the file "runSeleniumHub.bat"

2. Start the test by executing the file "run-auto-test-from-command-line.bat"

**Automation test results**

There are two files to report test results, which can be found at the location below.

..\Saiku-UI-Tests-Source-Files\test-output\emailable-report.html

..\Saiku-UI-Tests-Source-Files\test-output\index.html

**Test failure screenshots**

To help diagnose test failures, all failed tests will have screenshots captured, which are stored at the location below.

..\Saiku-UI-Tests-Source-Files\test-output\screenshots

**Deliverables**

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| **Deliverables** | **Explanation** |
| autoIT-executables | Contains executables which used for tests of export file functionalities only |
| Saiku-UI-Tests-Source-Files | Contains all test scripts, binary files and testng.xml |
| selenium-2.32.0-Jar | Contains selenium jar files, selenium libs directory with jars and testng jar files which are all downloaded online |
| Selenium-batch-files | IE and Chrome drivers, selenium jar file and batch files to start selenium hub and node |
| run-auto-test-from-command-line.bat | A batch file to execute automation test |

**Notes:**

Some tests excluded on testng.xml are due to the test instabilities or only work under certain conditions. Please ignore these tests at the moment and we will endeavour to make improvement.