

Team Deliverable #1

The first thing we noticed about the Sakai 11 CLE software was its extensive documentation. Guides for installation, building, and testing the software were all available on the software's git repository. This made for a structured, while not necessarily easy, installation of the software.

Installation

The installation of Sakai requires three programs to build and run. The provided guide walks through the installation of Java 1.8, Apache's Maven 3.2.5, and Apache's Tomcat 8 server. Once these programs have been installed with the correct environmental variable pointers, the source code was downloaded. We had to create a configuration file for Sakai and configure it to work with the prerequisite software. This was by far the hardest part. The guide provided relevant information to complete the process, but outside forums were referenced when complications arose.

Configuration

The software requires configuration of email and databases. This process was time consuming more than anything. Once the configuration was completed, building the software was relatively simple. The source code also provide sample data to build the software allowing for easy out of the box testing.

Testing

The documentation for Sakai 11 provides testing protocols and scripts. Testing information can be found here: <https://confluence.sakaiproject.org/display/QA/Sakai+11+QA+Hub> Here, Sakai provides tests and guides to making your own tests, as well as introducing a public weekly "Test Fest". Leaderboards display users who actively test and improve Sakai's software. Sakai uses Jira to document bugs and tests. We used a load testing framework provided by the Sakai documentation here:

<https://confluence.sakaiproject.org/display/QA/CLE+Load+Test+Framework>. This testing framework runs through Maven, so a little research is required to configure and run the test suite.

Overall

Sakai was painful to download and build due to the unfamiliarity with Maven and Tomcat configuration. It is worth mentioning that a lot of the difficulty in setting up sakai seemed to stem from unfamiliarity with ubuntu. After the configuration and test data was set up, Sakai was ready to go. It was relatively easy to navigate, but complete functionality will take some time to observe. The power of the system will be difficult to tackle and maintain.