

Project: Possibility Semester Project
SunSPOTS Team

SunSPOTS Team Development Software Deployment

February 21, 2008

Revision History

Date	Version	Description	Sections Affected	Revised/ Reviewed By
02/21/2008	Rev. A	Initial revision.	All	D. Woollard

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1. BACKGROUND

In this document, we describe the overall hardware and software architectures for the SunSPOTs Team development environment.

2. SOFTWARE

This section lists the software installed on the Project:Possibility server hardware for use by the SunSPOTs Team.

2.1 Development Environment

2.1.1 Configuration Management

Configuration management refers to the software and processes employed to manage the SunSPOTs Team software infrastructure. Project:Possibility uses the *Subversion* configuration management tool, and *ViewVC* as a (preferred) means of browsing project source trees via a web browser. Each of these tools is discussed in detail in the ensuing sections.

2.1.1.1 Subversion (built with mod_dav and HTTPD 2.x)

Subversion (<http://subversion.tigris.org>) is a configuration management system that extends the capabilities of traditional CVS and that is built using the Web-based Distributed Authoring and Versioning (WebDAV) protocol, a configuration management protocol constructed on top of the modern Internet.

The SunSPOTs Team's Subversion server runs at:
<http://www.projectpossibility.org/svn/SunSPOT/>

All SunSPOT developers have an account on Subversion. Account information can be obtained by contacting the SunSPOTs Team Lead, David Woollard or a member of the Semester Project Management Team.

2.1.1.2 ViewVC

ViewVC (<http://viewvc.org>) is a web application written in Python that allows a user to browse, report on, and interact with a remote or local Subversion, or CVS repository, or set of repositories. EDRN's ViewVC instance is located at:

<http://www.projectpossibility.org/projects/sunspot/viewvc>

2.1.2 Mailing Lists/Communication

Mailing lists exist for developers to communicate design decisions amongst each other, and to record the records of software commits. There are three main mailing lists that the SunSPOTs Team developers should be aware of:

- 1 semesterproject@lists.projectpossibility.org -- The mailing list for all participants in Project:Possibility's Semester Project.
- 2 dev-sunspot@lists.projectpossibility.org -- The mailing list for the SunSPOTs Team to discuss architectural ideas, and propose implementation changes/updates.
- 3 semesterproject-management@lists.projectpossibility.org -- The mailing list for the Project:Possibility Semester Project Management Team (a list of members is available at <http://www.projectpossibility.org/semesterProject.php>)

2.1.3 Issue Tracking

Software bugs/reports/fixes/issues are filed with <TBD>.

2.1.4 Collaboration/Wiki

For Wiki purposes, the SunSPOTs Team will utilize MediaWiki (<http://www.mediawiki.org>), an open source Wiki solution hosted by Project:Possibility.

2.1.4.1 MediaWiki

The MediaWiki instance will be located at:

http://www.projectpossibility.org/semesterproject/index.php?title=SunSPOTs_Project

2.1.5 Programming Languages/Compilers

The following section describes the programming languages/compilers that will be available to SunSPOTs Team developers.

2.1.5.1 Java (JDK 5)

Sun's JDK compiler, version 1.5.0_14, will be used. All SunSPOTs applications will be JDK 1.5 compliant.

2.1.5.2 Maven

Apache Maven (<http://maven.apache.org>), version 2.0.8, a software project management tool, will be provided <TBD>.

2.1.6 Integrated Development Environments

The SunSPOTs Team development environment will include the NetBeans 5.5 IDE.