
Roll and Scroll Recorder

Release 1.00

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Abstract

This paper describes a software testing tool which generates automatable tests. The application-under-test is VistA. The test tool, the Roll and Scroll Recorder (RASR), is developed in Java, as an Eclipse Plug-in. RASR generates python scripts, which are then exported into the OSEHRA Automated Testing framework.

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The OSEHRA Automated Testing (OAT) framework which stores and runs automated tests against VistA. The OAT framework stores tests as Python scripts. These python scripts automate connecting to an instance of VistA, executing commands, and determining if the test passed or failed. RASR is able to generate Python test scripts, and place them into the OAT. It does this by recording the connection a user makes to VistA and generating python statements to replay the commands the user entered.

1 Objective

Since the OAT requires creating python files in order to create new tests, an understanding of either Python or a similar programming language is required. Therefore, RASR has been developed to allow users who are unfamiliar with python to create and run automated tests against VistA. Additionally, experienced Python programmers benefit from how RARS is able to generate Python Tests quickly.

2 Features

- Connecting to VistA via SSH
- Displaying and handling VistA terminals
- Recording a user's VistA session
- User can select a single line of a screen to be recorded
- Exporting a session as a Python test file into the OAT
- Doesn't save Access/Verify codes, allowing tests to be shared easily

3 Supporting Documentation

The usage and installation document, and software design document have been submitting as part of the supporting documentation for this entry. Please zip file for these documents, located at the published URL:

4 Repository

The development repository is: <https://github.com/OSEHR/RASR>