Web Plugin Manual

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# Introduction

At the moment, a suitable Web GUI testing application does not exist that can store the information from a website, present the website data in an easy to understand manner, and test the functionality of a site GUI. Web Guitar’s task is to test the elements (buttons, links, images, etc) of a website as well as generate a visual representation of the link structure of the site in a tree graph.

A WebCrawler will obtain all of the elements (including picture and text links) in a website, store the information, and continue processing the connected links in the same manner. The information will be stored in an xml file and a DOT file from which the Graphviz application will process and create a visual graph. An Event Flow Graph (EFG) is also created from the outputted xml file. Test cases are created from the EFG using the GUITAR Test Case Generator. The WebReplayer utilizes the Selenium IDE in order to run test cases and produce output files detailing the results of the tests.

# Running

## WebRipper

Type in the following in the directory where WebRipper.jar is located:

Java –jar WebRipper.jar –u <url to rip> -d <depth> -w <width>

# Limitations

## WebRipper

* Doesn’t Handle dependencies

# Known Issues

* None

# Future Work

In the continuation of the project, we expect to implement the following:

* Output a DOT file representing the linked structure of a web page
* Output a Graphical Representation of the structure of the web page using Graphviz
* Create an EFG.xml file using the GUITAR GUI2EFGConverter and the GUI.xml file
* Create .tst test cases using the GUITAR TestCaseGenerator and the EFG.xml file
* Create a Replayer that will run the .tst test cases

Some optional implementations include:

* Provide functionality for flash
* Support multiple browsers
* Multi-threading
* Provide support for frames
* Improve the user interface