

## **Web Testing Tool (WTT)**

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# Web Testing Tool (WTT)

## 1 Overview

WTT is web applications and web sites testing tool. It can be used for web application testing as well as for the web data scraping. It uses screenplays which are recorded via [Selenium-IDE](#) . Testing results or scraping data are logged to the console, file and can be emailed.

## 2 Main Features

### 2.1 Replay Selenium-IDE screenplays

Recorded selenium screenplays (test-cases) can be [exported as java source](#). At runtime WTT compiles and executes screenplays at specified datetime.

### 2.2 Screenplay scheduling

Every screenplay is a job in scheduler terms. Job scheduling is specified in WTT configuration file in [Cron format](#)

### 2.3 Logging results

Testing results or scraping data are logged to the console, file and can be emailed. Logging parameters and output destinations (appenders) are specified in [Log4j configuration file](#). For email destination using ssl/tls ([like gmail.com](#)) you must specify SMTPAppenderWithTLS, otherwise use ordinary [SMTPAppender](#), for details [see example](#)

## 3 WTT configuration parameters file

SOURCE\_DIR source directory where screenplay java sources should be placed

PACKAGE screenplay java source package name

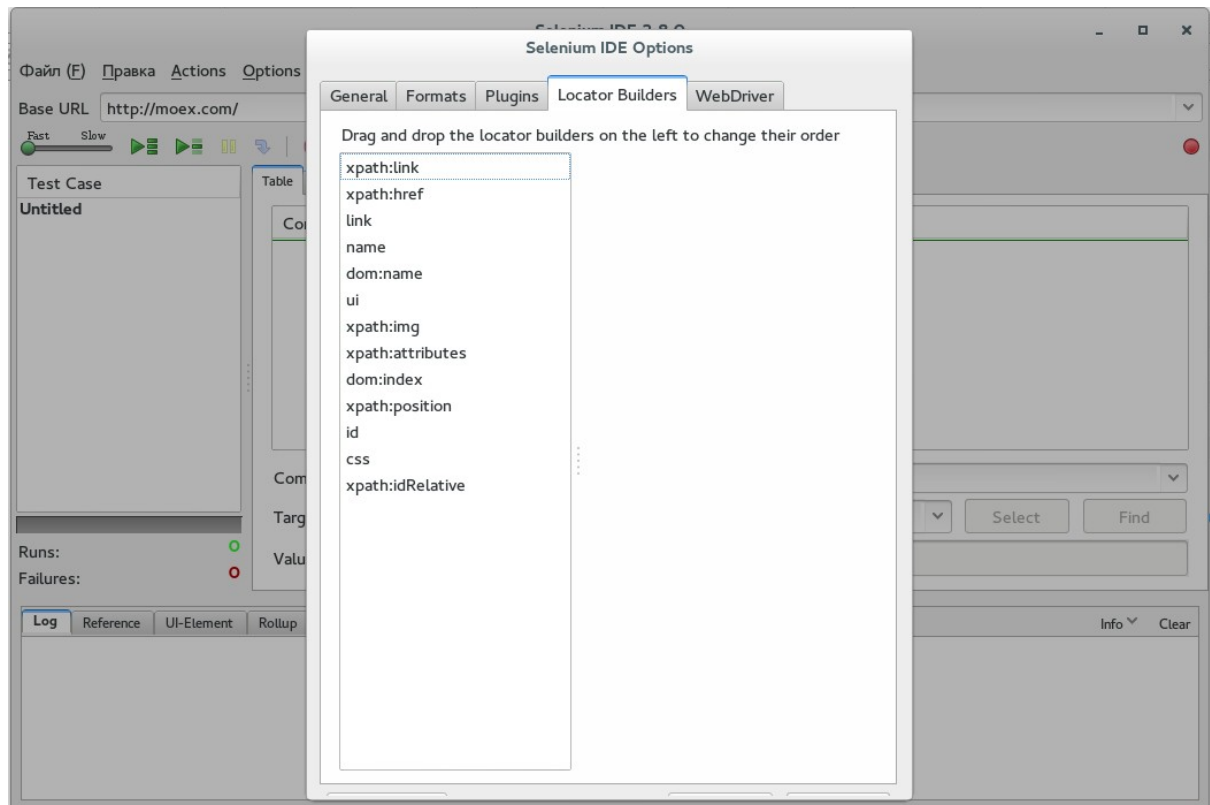
BROWSER the browser type, available values firefox, chrome, ie. Specified browser must be installed in your system

[JOBS] section, screenplay should be described here. Job description format: <job unique name>=<class name>, <[cron schedule expression](#)>. Job unique name must has prefix "JOB\_"

## 4 How to use

It is assumed that [Java](#) and [Maven](#) are installed in your system.

1. [Build WTT](#)
2. Specify log4j appenders and it's parameters in configuration file, [see example](#)
3. Specify WTT configuration parameters, [see example](#)
4. Install [Selenium-IDE](#)
5. [Start screenplay recording](#)
6. Stop screenplay recording
7. Verify that your screenplay replays successfully. If failure (can't find page elements) change locator builders order (in Selenium-IDE Options -> Options... -> Locator Builders) and repeat steps 5 – 7



Note that for AJAX web sites and web application avoid to use id, css, xpath:idRelative locator builders, i.e. they should be the last in the list.

8. If necessary modify selenium script, [see details here](#)
9. [Export selenium script to the java source](#)
10. Put java source to the directory, which is specified in WTT configuration file. Note that java source file name must comply [Java Naming Convention](#), [see examples](#)
11. If necessary modify exported java source
12. Issue command `java -jar -Dlog4j.configuration=< your log4j configuration file> wtt-0.0.1.jar <your WTT configuration file>`. Because of runtime screenplay compilation JAVA\_HOME environment variable in your system must reference on JDK (not JRE ) directory, [see details here](#)

## 5 License

[LICENSE](#), [NOTICE](#)