
Shishito Documentation

Release 2.1

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Shishito is module for web and mobile application functional testing using Selenium Webdriver & Python. It runs tests using included libraries and generates nice test results output.

CHAPTER 1

Features

- runs python Selenium Webdriver tests via PyTest
- easy configuration for local and remote (BrowserStack, Appium, ..) test execution
- contains useful test libraries
- generates HTML test results report (with screenshots for failed tests)
- designed to be used as a module (by multiple projects if needed)

Package overview

- *conf*
 - Configuration file for PyTest (*conftest.py*). Module adds custom arguments to PyTest runner and defines functions that can modify pytest behaviour. Contents of this file should be imported from each test directory *conftest.py* file.

```
from shishito.conf.conftest import *
```

- *reporting*
 - Module is responsible for creating test results reports. Module offers functions for handling test results (archive results, clean results, ..). Templates for test results are stored in this module.
- *runtime*
 - Module contains submodules needed for running test in given environment and platform. Module also contains support class (*ShishitoSupport*), used for loading config files (*load_configs*, *get_environment_config*), importing platform and environment specific classes (*get_module*) and getting settings from configuration (*get_opt*).
 - *environment*
 - * Module contains environment specific classes (*ControlEnvironment*) and base class for all environment (*ShishitoEnvironment*). *ControlEnvironment* class offers following functionality:
 - (*get_pytest_arguments*) Return environment specific arguments for PyTest runner
 - (*call_browser*) Create selenium driver for specific environment
 - * Module offers support for following environments: **appium**, **browserstack**, **local** and **remote**.
 - **appium** is used for running tests for mobile applications (locally or on SauceLabs)
 - **browserstack** is used for running tests on specific OS and browser combination (offered by browserstack)
 - **local** is used for running tests on local browsers
 - **remote** is used for running tests on remote browsers (Selenium server required)

– *platform*

- * Module contains base classes for platform specific functionality and submodules for supported platforms.
- * Module contains following base classes:
 - *ShishitoExecution* - execute PyTest with correct arguments for specific platform. Class offers following functionality:
 - (*run_tests*) Execute tests for all specified combinations in config file (“config/<platform>/<environment>.properties”)
 - (*trigger_pytest*) Set up PyTest runner and execute it
 - *ShishitoControlTest* - contain functions used in tests (initialize selenium driver, store test results, ..). Class offers following functionality:
 - (*start_browser*) Prepare webdriver used in tests. Should be used in *setup_class* method.
 - (*start_test*) Initialize webdriver before every test function execution (e.g. load initial page). Should be used in *setup_method* method.
 - (*stop_browser*) Terminate webdriver. Should be used in *teardown_class* method.
 - (*stop_test*) Handle one test function results (e.g. save screenshot in case of test fail). Should be used in *teardown_method* method.
- * Shishito supports following platforms: **generic**, **mobile** and **web**.
 - **generic** platform is used for running tests that do not require selenium webdriver
 - **mobile** platform is used for running tests that test mobile applications using appium or saucelabs (using appium webdriver)
 - **web** platform is used for running tests, that use local/remote browsers or browserstack (using selenium webdriver)
 - Each platform implements two classes: *ControlExecution* (bases *ShishitoExecution*) and *ControlTest* (bases *ShishitoControlTest*)

CHAPTER 3

Contents

3.1 shishito

3.1.1 shishito package

Subpackages

shishito.conf package

Submodules

shishito.conf.conftest module

shishito.reporting package

Submodules

shishito.reporting.junithtml module

shishito.reporting.reporter module

shishito.runtime package

Subpackages

shishito.runtime.environment package

Submodules

[shishito.runtime.environment.appium module](#)

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shishito.runtime.environment.browserstack module

shishito.runtime.environment.local module

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`