
WTRobot

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A web automation framework inspired from behave and robot framework. WTRobot is no-code test automation framework. It uses some powerful python libraries like selenium, requests, unittest, etc to create this magic.

GETTING STARTED

1.1 How to install

See the *setup and config* for more details.

1.2 User Command

WTRobot has two sub commands run & clean

Run the test suite

```
$ wtrobot run --help
Usage: wtrobot run [OPTIONS]

run all wtrobot testsuit. It will also take screenshot and log every step.

Options:
-s, --no-screenshot      If you don't need screenshots to be captured
-l, --no-log             If you don't need logging
-b, --browser BOOLEAN    browser on which you want to run tests
-d, --web-driver-path BOOLEAN selenium webdriver path
-L, --locale BOOLEAN     browser local in which you want to run tests
-t, --test-dir-path TEXT  test dir path
-e, --entry-test-script TEXT entry test script file
-D, --dev                dev logging enable
-c, --config-file-path TEXT config file path
--help                  Show this message and exit.
```

Clean the tmp dir and old logs

```
$ wtrobot clean --help
Usage: wtrobot clean [OPTIONS]

clean tmp dir and/or log file.

Options:
-t, --tmp    clean tmp dir
-l, --log    clean entire log file
--help      Show this message and exit.
```

1.3 How to write your first test

See the *test syntax* for more details.

1.4 How to contribute

Any opensource contribution to this project is most welcomed :)

See the *dev guidelines* for more project details.

Happy Testing :)

SETUP

- PyPi installation

```
$ pip install wtrobot
```

- Installation from sources

Important: Install make and jinja2-cli package

```
$ git clone <repo url>  
$ cd <project dir>  
$ make local
```


CONFIGURATION

You can pass config file or cli will generated it for you.

TBD...

TEST.YML SYNTAX

4.1 Template

```
testcase:
  step1:
    name:
    action:
    target:
    value:
    assert:

  step2: ...

  step3: ...
```

TBD....

DEVELOPER GUIDELINES

5.1 Setup

1. Setup a virtual environment

```
$ pip install virtualenv
$ virtualenv venv
$ activate venv/bin/activate
```

2. Clone repo and install

Important: Install make and jinja2-cli package

```
$ git clone <repo url>
$ cd <project dir>
$ make localdev
```

5.1.1 Package Maintainers

Important: Password less login to pypi create .pypirc as mentioned in <https://packaging.python.org/en/latest/specifications/pypirc>

```
$ pip install -r dev-requirements.txt
$ make build-push      (default push to pypi repo)
$ make build-push PUSH_TO=testpypi    (one can specify where to push package)
```

5.2 Project Structure

Our WTRobot library lives in lib dir.

```
lib/
├── cli/                // all click based file are here
│   └── commands/      // if you want to add any new subcommand just add a new file.
└── here
```

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```
|
| |
| | └─ clean.py
| |   └─ run.py
| └─ main.py
|
└─ utils/           // All utility scripts are here
    └─ logger.py    // project logger script
      └─ util.py     // simple utility scripts like File I/O, etc
|
└─ wt_lib/          // WTRobot core lib files
    └─ action.py     // takes care of all selenium actions like click, input, etc
      └─ brower_init/ // initialize browser instance
          └─ browser_options.py // set brower options like locale, etc
            └─ grid_init.py      // config if you are using selenium grid
              └─ init.py         // brower init, this also uses weddriver_manager
|
└─ commad_parser.py // parser your test.yaml file
  └─ operations.py   // xpath parser, locate elements, etc
```

5.3 Pull Requests

Dev is the Development branch and contributors are requested to raise PR against dev branch only.