
Test History Server Documentation

Release 0.0.3

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Unit test history report server

1.1 Installation

1.1.1 Prerequisites

- Apache
- MySQL
- Python
- Pip

1.1.2 Install the latest revision from GitHub

Run the following command to install the latest version from GitHub:

```
pip install git+https://github.com/KarrLab/test_history_server.git#egg=test_history_
↪server
```

1.1.3 Configure the package

1. Create a MySQL database
2. Edit the site and database configuration in */path/to/web-server/test_history_server/test_history_server/site/settings.py*
3. Setup the database:

```
cd /path/to/web-server/test_history_server/test_history_server/site
python manage.py makemigrations core
python manage.py migrate
```

4. Edit the server configuration in */path/to/web-server/test_history_server/test_history_server/site/wsgi.py*

1.2 Usage

1.2.1 Browsing test histories

To browse test histories, open the URL specified by `BASE_URL` in `/path/to/web-server/test_history_server/test_history_server/site/settings.py`.

1.2.2 Uploading test reports

The following example illustrates how to add test reports to the database:

```
import requests

r = requests.post('<settings.BASE_URL>/rest/submit_report',
                 data={
                     'token': <test_server_token>,
                     'repo_name': <repo_name>,
                     'repo_owner': <repo_owner>,
                     'repo_branch': <repo_branch>,
                     'repo_revision': <repo_revision>,
                     'build_num': <build_num>,
                     'report_name': <extra textual label for individual reports within build,
↪such as to indicate results from different versions of Python>,
                 },
                 files={
                     'report': </path/to/junit-style-XML-test-report.xml>,
                 })

r_json = r.json()

if not r_json['success']:
    raise BuildHelperError('Error uploading report to test history server: {}'.
↪format(r_json['message']))
```

1.3 REST API documentation

- Endpoint: `<settings.BASE_URL>/rest/submit_report`
- Method: POST
- Arguments:
 - `token` (string): secret token used to authenticate with server
 - `repo_owner` (string): user or organization which owns the GitHub repository
 - `repo_name` (string): the name of the GitHub repository
 - `repo_branch` (string): the name of the branch of the repository that was tested
 - `repo_revision` (string): the SHA1 key of the revision that was tested
 - `build_num` (integer): the build number that was tested
 - `report_name` (string, optional): textual label for individual reports within build, such as to indicate results from different versions of Python

– *report* (file): JUnit-style XML test report

1.4 About

1.4.1 License

The software is released under the MIT license

```
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```

1.4.2 Development team

This package was developed by the [Karr Lab](#) at the Icahn School of Medicine at Mount Sinai in New York, USA.

1.4.3 Acknowledgements

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1.4.4 Questions and comments

Please contact the [Karr Lab](#) with any questions or comments.