pygrade Documentation

Release 0.2.5

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pygrade

auto-grade python assignments

- Free software: ISC license
- Documentation: https://pygrade.readthedocs.org.

This library helps one create and grade programming assignments written in Python and submitted by students via Github.

Features include the ability to:

- Create private GitHub repositories for each student.
- Populate student repositories with starter code.
- Grade student assignments by running unittests against their code.
- Push grades and failing tests back to the student repositories.
- Summarize grades by test or student

See the example for a tutorial on usage.

1.1 Related libraries

- teacherspet : manipulates github repos for teaching.

1.2 Credits

Tools used in rendering this package:

- Cookiecutter
- cookiecutter-pypackage

CHAPTER 2

Installation

At the command line:

```
$ easy_install pygrade
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv pygrade
$ pip install pygrade
```

CHAPTER 3

Usage

To use pygrade in a project:

```
import pygrade
```

For command-line help:

```
$ pygrade help
```

CHAPTER 4

Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

4.1 Types of Contributions

4.1.1 Report Bugs

Report bugs at https://github.com/tapilab/pygrade/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" is open to whoever wants to implement it.

4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with "feature" is open to whoever wants to implement it.

4.1.4 Write Documentation

pygrade could always use more documentation, whether as part of the official pygrade docs, in docstrings, or even on the web in blog posts, articles, and such.

4.1.5 Submit Feedback

The best way to send feedback is to file an issue at https://github.com/tapilab/pygrade/issues.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

4.2 Get Started!

Ready to contribute? Here's how to set up *pygrade* for local development.

1. Fork the *pygrade* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/pygrade.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv pygrade
$ cd pygrade/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

   Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 pygrade tests
$ python setup.py test
$ tox
```

   To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.7, 3.3, and 3.4, and for PyPy. Check https://travis-ci.org/tapilab/pygrade/pull_requests and make sure that the tests pass for all supported Python versions.

4.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_pygrade
```

CHAPTER 5

Credits

5.1 Development Lead

- Aron Culotta <aronwc@gmail.com>

5.2 Contributors

None yet. Why not be the first?

CHAPTER 6

History

CHAPTER 7

0.2.5 (2018-01-25)

- Bugfixes
- New feature: delete student accounts

CHAPTER 8

0.2.4 (2017-01-23)

- Bugfixes
- Enforce alpha version of github3

CHAPTER 9

0.2.3 (2016-10-14)

- Bugfixes

CHAPTER 10

0.2.2 (2016-10-14)

- Support extra file for external deductions
- Summarize grades by student/test/etc.

CHAPTER 11

0.1.8 (2016-01-16)

- First fully functional version

CHAPTER 12

0.1.0 (2016-01-01)

- First release on PyPI.

CHAPTER 13

Indices and tables

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