matyan Documentation

Release 0.1

Artur Barseghyan <artur.barseghyan@gmail.com>

Nov 17, 2019

Contents

Generate changelog from Git commits.

Prerequisites

- Python 3.6, 3.7, 3.8 and PyPy

Use cases and basic concepts

Matyan does a good job generating changelog from Git commits. Think of DTAP development, GitFlow-like concepts, JIRA (or similar tool for handling tickets and reviewing pull requests).

2.1 How would you know it could be useful?

If the following applies to you, `matyan` could help:

- Project releases (tags) are numbered according to the semantic versioning or sequence based identifiers.

- Project follows the DTAP.

- Testing, acceptance and production branches (hereafter referred as TAP branches) are protected.

- Direct commits to TAP branches are forbidden.

- All commits to TAP branches are made by pull requests.

- Pull requests are merged using GitHub or BitBucket web interface.

2.2 Sample use-case

2.2.1 The use-case

- JIRA is used for issues.

- All commits are prefixed with ID of the JIRA issue: for example, *MSFT-1234* or *NVDA-1234* (where first four letters identify the client commit was done for, it's pattern).

- There are 3 main (protected) branches: *dev*, *staging*, *master*. Direct commits to any of the 3 are forbidden. Any feature/bugfix comes via merge request.

- All branches do have meaningful prefixes. Example, *feature/MSFT-1234-Title-of-the-issue* or *bugfix/MSFT-1236-prevent-duplicate-postal-codes*.

- Release flow is *dev -> staging -> master*.

2.2.2 Sample commits

Consider the following commits into the dev branch:

branch: feature/MSFT-1238-Token-authentication

- MSFT-1238 Implement token authentication.
- MSFT-1238 Update authentication docs.

branch: feature/MSFT-1237-Improve-document-sharing

- MSFT-1237 Improve document sharing. Add option to share via GDrive.

branch: bugfix/MSFT-1236-prevent-duplicate-postal-codes

- MSFT-1236 Normalise postal codes for German addresses.
- MSFT-1236 Normalise postal codes for US addresses.
- MSFT-1236 Make postal code field unique for the country.

branch: deprecation/MSFT-1235-deprecate-old-api

- MSFT-1235 Deprecate API v 2.0.
- MSFT-1235 Update docs.

branch: feature/MSFT-1234-car-type-suggester

- MSFT-1234 Initial car type suggester implementation.
- MSFT-1234 Add insurance amount indication based on car weight.

2.2.3 Sample releases

All commits have been finally merged into master.

Releases have been made in the following way:

0.1

- Merged issues MSFT-1234, MSFT-1235 and MSFT-1236

0.2

- Merged issues MSFT-1237 and MSFT-1238

2.3 Sample changelog output

The generated change log would look as follows:

```
### 0.2

**Features**

*MSFT-1238 Token-authentication*
```

```
- Implement token authentication.
- Update authentication docs.

*MSFT-1237 Improve document sharing*

- Improve document sharing. Add option to share via GDrive.

### 0.1

**Bugfixes**

*MSFT-1236 Prevent duplicate postal codes*

- Normalise postal codes for German addresses.
- Normalise postal codes for US addresses.
- Make postal code field unique for the country.

**Deprecations**

*MSFT-1235 Deprecate old api*

- Deprecate API v 2.0.
- Update docs.

**Features**

*MSFT-1234 Car type suggester*

- Initial car type suggester implementation.
- Add insurance amount indication based on car weight.
```

Configuration

In order to customize names and texts, add a `.matyan.ini` in your project directory, form which you will be runnin the `generate-changelog` command.

Sample configuration:

```
[BranchTypes]
feature: Feature
bugfix: Bugfix
hotfix: Hotfix
deprecation: Deprecation

[OtherBranchType]
other: Other

[Unreleased]
unreleased: Unreleased

[IgnoreCommits]
exact: more
        clean up
        code comments
        more on docs
        repo
        working
        more on
        wip
        commit
```

Tips and tricks

4.1 Write to file

```
generate-changelog --show-releases 2>&1 | tee changelog.md
```

Documentation

Documentation is available on Read the Docs.

CHAPTER 6

Installation

Latest stable version on PyPI:

```
pip install matyan
```

Or latest stable version from GitHub:

```
pip install https://github.com/barseghyanartur/matyan/archive/stable.tar.gz
```

Or latest stable version from BitBucket:

```
pip install https://bitbucket.org/barseghyanartur/matyan/get/stable.tar.gz
```

Usage examples

Generate changelog:

```
generate-changelog
```

Generate changelog skipping orphaned commits:

In some cases you only want to show what has been done with tickets and skip all non-ticket related commits.

```
generate-changelog --no-other
```

Generate changelog between two releases:

In some cases you only want to show what has been done since last release. The following example would generate changelog since version 0.0.1 to version 0.0.3.

```
generate-changelog 0.0.1..0.0.3
```

Generate changelog with releases info shown

```
generate-changelog --show-releases
```

Generate changelog between releases with releases info shown

```
generate-changelog 0.0.1..0.0.3 --show-releases
```

CHAPTER 8

Testing

Simply type:

```
./runtests.py
```

Or use tox:

```
tox
```

Or use tox to check specific env:

```
tox -e py36
```

Writing documentation

Keep the following hierarchy.

```
=====
title
=====

header
======

sub-header
----------

sub-sub-header
~~~~~~~~~~~~~~

sub-sub-sub-header
^^^^^^^^^^^^^^^^^^

sub-sub-sub-sub-header
++++++++++++++++++++++

sub-sub-sub-sub-sub-header
**************************
```

License

GPL-2.0-only OR LGPL-2.1-or-later

Support

For any issues contact me at the e-mail given in the *Author* section.

Author

Artur Barseghyan <artur.barseghyan@gmail.com>

Docs

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13.1 Release history and notes

Sequence based identifiers are used for versioning (schema follows below):

```
major.minor[.revision]
```

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).

- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).

- All backwards incompatible changes are mentioned in this document.

13.1.1 0.1

2019-11-18

- Initial release.

CHAPTER 14

Indices and tables

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