# **JSON:API ORM Documentation**

Release 0.1.8

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## CHAPTER 1

JSON:API ORM

Quick and dirty ORM that maps JSON:API responses to object attributes.

• Free software: BSD license

• Documentation: https://jsonapi-orm.readthedocs.io.

• Requirements: Python 3.5+

## **1.1 How To**

Use Requests or (if you are a masochist) Python's built-in urllib modules to make the request to your JSON:API service and from there pass the response to JSON:API ORM.

So, first install requests and this lib:

```
pip install requests
pip install jsonapi-orm
```

Switch to your Python code and use the magic!

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### 1.2 Caveats

- Since Python object attribute names have certain rules like not starting with a number or not containing "-" char, all such attributes can be accessed using .get() method. Ie. obj.data.author.get('first-name').
- If relationship is not described in more detail in the included part of the response matching fails silently.
- For now, this lib does not lazily follow relationship links or anything like that. You can of course make a new request to the given link and pass that response to JSON:API ORM.
- For now, there is no check if response is a valid JSON:API response. But you'll probably get that you are trying to parse an invalid response when things start to break.
- And last, this lib requires Python 3.5 or newer.

#### 1.2.1 Installation

#### Stable release

To install JSON:API ORM, run this command in your terminal:

```
$ pip install jsonapi-orm
```

This is the preferred method to install JSON:API ORM, as it will always install the most recent stable release.

If you don't have pip installed, this Python installation guide can guide you through the process.

### From sources

The sources for JSON:API ORM can be downloaded from the Github repo.

You can either clone the public repository:

```
$ git clone git://github.com/mislavcimpersak/jsonapi-orm
```

Or download the tarball:

```
$ curl -OL https://github.com/mislavcimpersak/jsonapi-orm/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```

## 1.2.2 jsonapi\_orm

### jsonapi\_orm package

#### **Submodules**

### jsonapi\_orm.jsonapi\_orm module

Main module.

#### **Module contents**

Top-level package for JSON:API ORM.

## 1.2.3 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:

## **Types of Contributions**

## **Report Bugs**

Report bugs at https://github.com/mislavcimpersak/jsonapi-orm/issues.

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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.

#### **Fix Bugs**

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

#### **Implement Features**

Look through the GitHub issues for features. Anything tagged with "enhancement" and "help wanted" is open to whoever wants to implement it.

#### **Write Documentation**

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

#### **Submit Feedback**

The best way to send feedback is to file an issue at https://github.com/mislavcimpersak/jsonapi-orm/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:)

#### **Get Started!**

Ready to contribute? Here's how to set up *jsonapi-orm* for local development.

- 1. Fork the *jsonapi-orm* repo on GitHub.
- 2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/jsonapi-orm.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 jsonapi-orm
$ cd jsonapi-orm/
$ 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 jsonapi_orm tests
$ python setup.py test or 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.

## **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, 3.4, 3.5 and 3.6, and for PyPy. Check https://travis-ci.org/mislavcimpersak/jsonapi-orm/pull\_requests and make sure that the tests pass for all supported Python versions.

#### **Tips**

To run a subset of tests:

```
$ py.test tests.test_jsonapi_orm
```

#### **Deploying**

A reminder for the maintainers on how to deploy. Make sure all your changes are committed (including an entry in HISTORY.rst). Then run:

```
$ bumpversion patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.

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## 1.2.4 History

## 0.1.8 (2018-04-06)

• Added test config and basic tests.

#### 0.1.7 (2018-03-25)

• Using readme.rst for frontpage of the docs.

## 0.1.7 (2018-03-25)

• Fixed pip install.

## 0.1.6 (2018-03-25)

• Readme fix for pypi.

## 0.1.5 (2018-03-25)

• Readme fix for pypi.

## 0.1.4 (2018-03-25)

• Readme examples using slighty modified examples from jsonapi.org which are located in this repo.

## 0.1.3 (2018-03-25)

• Fixed a bug when child data is non-existent.

## 0.1.2 (2018-03-25)

• Fixed a bug when included is not present in response.

## 0.1.0 (2018-03-24)

• First release on PyPI.

# CHAPTER 2

## Indices and tables

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