
G Node Factory

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Jun 05, 2023

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The [GNodeFactory](#) is a foundational actor in GridWorks. Please go to [Gridworks Docs](#) to read more, and go to [The Millinocket Tutorial](#) for a dev use-case of this repo.

This repo has been developed through the generous funding of a grant provided by the [Algorand Foundation](#).

TESTING

pytest -v

CODE DERIVATION TOOLS

The primary derivation tool used for this is ssot.me, developed by EJ Alexandra of [An Abstract Level LLC](#). All of the xslt code in `CodeGeneration` uses this tool.

The `ssotme cli` and its upstream `ssotme` service pull data from our [private airtable](#) down into an `odxml` file and a `json` file, and then references local `.xslt` scripts in order to derive code. The `.xslt` allows for two toggles - one where files are always overwritten, and one where the derivation tools will leave files alone once any hand-written code is added. Mostly that toggle is set to `always overwrite` since we are working with immutable schemata. Note that the `ssotme cli` requires an internet connection to work, since it needs to access the upstream `ssotme` service.

If you want to add enums or schema, you will need access to the `ssotme cli` and the `airtable`. Contact Jessica for this.

CREDITS

This project was generated from [@cjolowicz's Hypermodern Python Cookiecutter](#) template.

3.1 Usage

3.1.1 g-node-factory

G Node Factory.

```
g-node-factory [OPTIONS]
```

Options

--version

Show the version and exit.

3.2 Reference

3.2.1 gnf

G Node Factory.

3.3 Contributor Guide

Thank you for your interest in improving this project. This project is open-source under the [MIT license](#) and welcomes contributions in the form of bug reports, feature requests, and pull requests.

Here is a list of important resources for contributors:

- [Source Code](#)
- [Documentation](#)
- [Issue Tracker](#)
- [Code of Conduct](#)

3.3.1 How to report a bug

Report bugs on the [Issue Tracker](#).

When filing an issue, make sure to answer these questions:

- Which operating system and Python version are you using?
- Which version of this project are you using?
- What did you do?
- What did you expect to see?
- What did you see instead?

The best way to get your bug fixed is to provide a test case, and/or steps to reproduce the issue.

3.3.2 How to request a feature

Request features on the [Issue Tracker](#).

3.3.3 How to set up your development environment

You need Python 3.10+ and the following tools:

- [Poetry](#)
- [Nox](#)
- [nox-poetry](#)

Install the package with development requirements:

```
$ poetry install
```

You can now run an interactive Python session, or the command-line interface:

```
$ poetry run python
$ poetry run g-node-factory
```

3.3.4 How to test the project

Run the full test suite:

```
$ nox
```

List the available Nox sessions:

```
$ nox --list-sessions
```

You can also run a specific Nox session. For example, invoke the unit test suite like this:

```
$ nox --session=tests
```

Unit tests are located in the *tests* directory, and are written using the [pytest](#) testing framework.

3.3.5 How to submit changes

Open a [pull request](#) to submit changes to this project.

Your pull request needs to meet the following guidelines for acceptance:

- The Nox test suite must pass without errors and warnings.
- If your changes add functionality, update the documentation accordingly.

Feel free to submit early, though—we can always iterate on this.

To run linting and code formatting checks before committing your change, you can install pre-commit as a Git hook by running the following command:

```
$ nox --session=pre-commit -- install
```

It is recommended to open an issue before starting work on anything. This will allow a chance to talk it over with the owners and validate your approach.

3.4 GridWorks Energy Consulting Code of Conduct

3.4.1 Basic Truth

All humans are worthy.

3.4.2 Scope

This Code of Conduct applies to moderation of comments, issues and commits within this repository to support its alignment to the above basic truth.

3.4.3 Enforcement Responsibilities

GridWorks Energy Consulting LLC (gridworks@gridworks-consulting.com) owns and administers this repository, and is ultimately responsible for enforcement of standards of behavior. They are responsible for merges to dev and main branches, and maintain the right and responsibility to remove, edit, or reject comments, commits, code, documentation edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

If you read something in this repo that you want GridWorks to consider moderating, please send an email to them at gridworks@gridworks-consulting.com. All complaints will be reviewed and investigated, and GridWorks will respect the privacy and security of the reporter of any incident.

3.4.4 What not to add to this repo

Ways to trigger GridWorks moderation enforcement:

- Publish others' private information, such as a physical or email address, without their explicit permission
- Use of sexualized language or imagery, or make sexual advances
- Troll

3.4.5 Suggestions

- Empathize
- Recognize you are worthy of contributing, and do so in the face of confusion and doubt; you can help clarify things for everyone
- Be interested in differing opinions, viewpoints, and experiences
- Give and accept constructive feedback
- Accept responsibility for your mistakes and learn from them
- Recognize everybody makes mistakes, and forgive
- Focus on the highest good for all

3.4.6 Enforcement Escalation

1. Correction

A private, written request from GridWorks to change or edit a comment, commit, or issue.

2. Warning

With a warning, GridWorks may remove your comments, commits or issues. She may also freeze a conversation.

3. Temporary Ban

A temporary ban from any sort of interaction or public communication within the repository for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4. Permanent Ban

A permanent ban from any sort of interaction within the repository.

3.4.7 Attribution

This Code of Conduct is loosely adapted from the Contributor Covenant, version 2.1, available at https://www.contributor-covenant.org/version/2/1/code_of_conduct.html.

Community Impact Guidelines were inspired by Mozilla's code of conduct enforcement ladder.

For answers to common questions about this code of conduct, see the FAQ at <https://www.contributor-covenant.org/faq>. Translations are available at <https://www.contributor-covenant.org/translations>.

3.5 License

MIT License

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