

Org Policies

Frank Aragona

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Objectives

- Ensure that all repos in the org have the required documents
- Set policy rules at the Organization level
- Repos need to have reproducible code
- Repos need to have documentation

In the Github Organization we may require all repositories to contain certain documents. For example, we want to make sure that every repo has a `CODE OF CONDUCT` document that is a general policy applied throughout the organization.

Here's a list of required documents:

README

`README` files are instructions or documentation on how to use your software. It should give a quick introduction to the repo and instructions on how to install or run the code.

CODE_OF_CONDUCT

A Code of Conduct can let a user know what the rules of the organization are and how any wrongful behavior will be addressed. The document will provide the “[standards for how to engage in a community](#)”

CONTRIBUTING.md

This file should appear in the issue tab in a repo. It lets a user know how they can contribute to the project and if they need to sign any forms before contributing. Some larger organizations require that a person knows what they are contributing to and they must sign a form acknowledging that any software/code contributions to the project will be used and cannot be retracted by the user. The code submitted may also be used to develop processes but the organization will not pay the individual contributor (since this is open-source, we only look for open-source contributions)

LICENSE

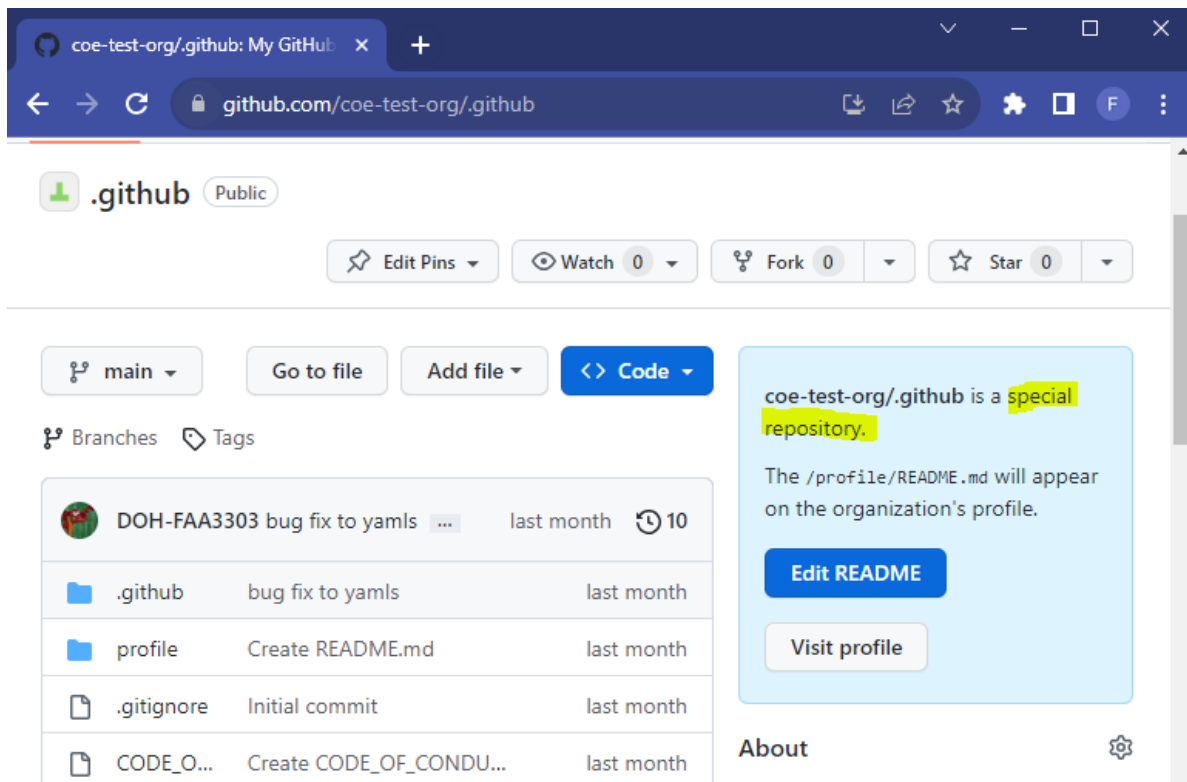
These should be and are set at the repo level. There will be many different licenses to choose from that will depend on the specific repo. More on that [here](#).

Set Policy Rules at Org Level

Policy rules may include requiring certain documents in each repo or requiring that a person sign every commit.

Document Requirements with .github Repos

You can set most policy rules and create documents for each repo at the organization level by using a special `.github` repo. Dot files and dot folders have special functionality in some software. For Github, the `.github` folder defines workflows for things like Github Actions in a repo. A `.github repository` on the other hand defines *organization level* rules and templates.



In order to write and set these policies at the organization level we can put them at the root of the `.github` repository and edit them there.

Listing 1 PowerShell

```
$ tree /f
C:..
    .gitignore
    CODE_OF_CONDUCT.md
    CONTRIBUTING.md
    LICENSE
    README.md

    .github
    profile
        README.md
```

Take a look above. I have the required documents/policies at the root of the `.github` repo directory. Now if I open up any given repo in the organization I will find a link to those files:



If you click on the `CODE_OF_CONDUCT` link it will take you right to the `.github` repo and open the `CODE_OF_CONDUCT.md` file there:

Now you can set organization level policies from the `.github` repo and they will automatically populate in *all* existing and new repositories *unless there are repo specific policies in place*. If a repo already has its own policies they will not be overwritten.

Set Templates at the Org Level

Aside from policy documents, you can make templates at the organization level. Two commonly used templates are issue templates and discussion templates.

In the public repos there may be end users that may have limited experience using Github. If they want to submit an issue or ask a question they get lost. Templates can help them form a question or idea. Templates can also help standardize how issues and discussions are maintained throughout the organization.

Structuring the format of issues and discussions can make the author and the end-user's lives easier.

In the `.github` repo I made a *folder* called `.github`. This is a special folder that can hold Github Action workflows and more, as mentioned above.

In the `.github` *folder* I have a folder called `DISCUSSION_TEMPLATE` and another called `ISSUE_TEMPLATE`. These are special folders that Github recognizes as discussion and issue folders that will set templates at the repo (or in this case the org) level.

Listing 2 PowerShell

```
$ tree /f
C:.\
  .gitignore
  CODE_OF_CONDUCT.md
  CONTRIBUTING.md
  LICENSE
  README.md

  .github
    pull_request_template.md

    DISCUSSION_TEMPLATE
      feature-requests.yml
      q-a.yml
      show-and-tell.yml

    ISSUE_TEMPLATE
      bug_report.yml
      config.yml
      feature_request.yml

  profile
    README.md
```

Each Folder has `.yml` files in it that are basically Github instructions on how to format issues and discussions.

For example, in the `ISSUE_TEMPLATE` folder I have a `.yml` file called `bug_report.yml`. This file contains the structure for how someone can report a bug.

Now, when someone clicks on the **Issues** tab in a repo in this organization they will be met with the **Bug Report** template:

Notice that in the template you can create text areas and pre-fill those areas with suggestions. You can even require that someone fills out those areas before they can submit the issue:

Listing 3 bug-report.yml

```
name: Bug Report
description: File a bug report here
title: "[BUG]: "
labels: ["bug"]
assignees: ["DOH-FAA3303"]
body:
  type: markdown
  attributes:
    value: |
      Thanks for taking the time to fill out this bug report
      Make sure there aren't any open/closed issues for this topic
```

New Issue · coe-test-org/demo- x +

github.com/coe-test-org/demo-repository/issues/new?assignees=DOH-FAA3303&labels=...

Steps To Reproduce *

Steps to reproduce the behavior.

1. Go to '...'
2. Click on '...'
3. Scroll down to '...'
4. See error

Additional Information

Provide any additional information such as logs, screenshots, likes, scenarios in which the bug occurs so that it facilitates resolving the issue.

Write Preview H B I ≡ <> 🔗 ≡ ≡ ≡ 📎 ...

Leave a comment

Markdown is supported Paste, drop, or click to add files

Beta

Submit new issue

Listing 4 bug-report.yml

```
- type: textarea
  id: steps-to-reproduce
  attributes:
    label: Steps To Reproduce
    description: Steps to reproduce the behavior.
    placeholder: |
      1. Go to '...'
      2. Click on '...'
      3. Scroll down to '...'
      4. See error
  validations:
    required: true
```

Commit Sign-Off Requirement - Github Apps

We may want to require authors or reviewers to sign-off on commits to a repo. This is sometimes established in projects to “[ensure that copyrighted code not released under an appropriate free software \(open source\) license is not included in the kernel.](#)”

You can install a Github App in the organization and it will be applied to all repos. [The DCO App \(Developer Certificate of Origin\) is popular and lightweight.](#) To install it in the organization, click on Configure and it will give you the option to configure it with the organization of choice.

IaC

Infrastructure as Code (IaC) can be helpful when managing administration tasks or writing hooks at the org level.