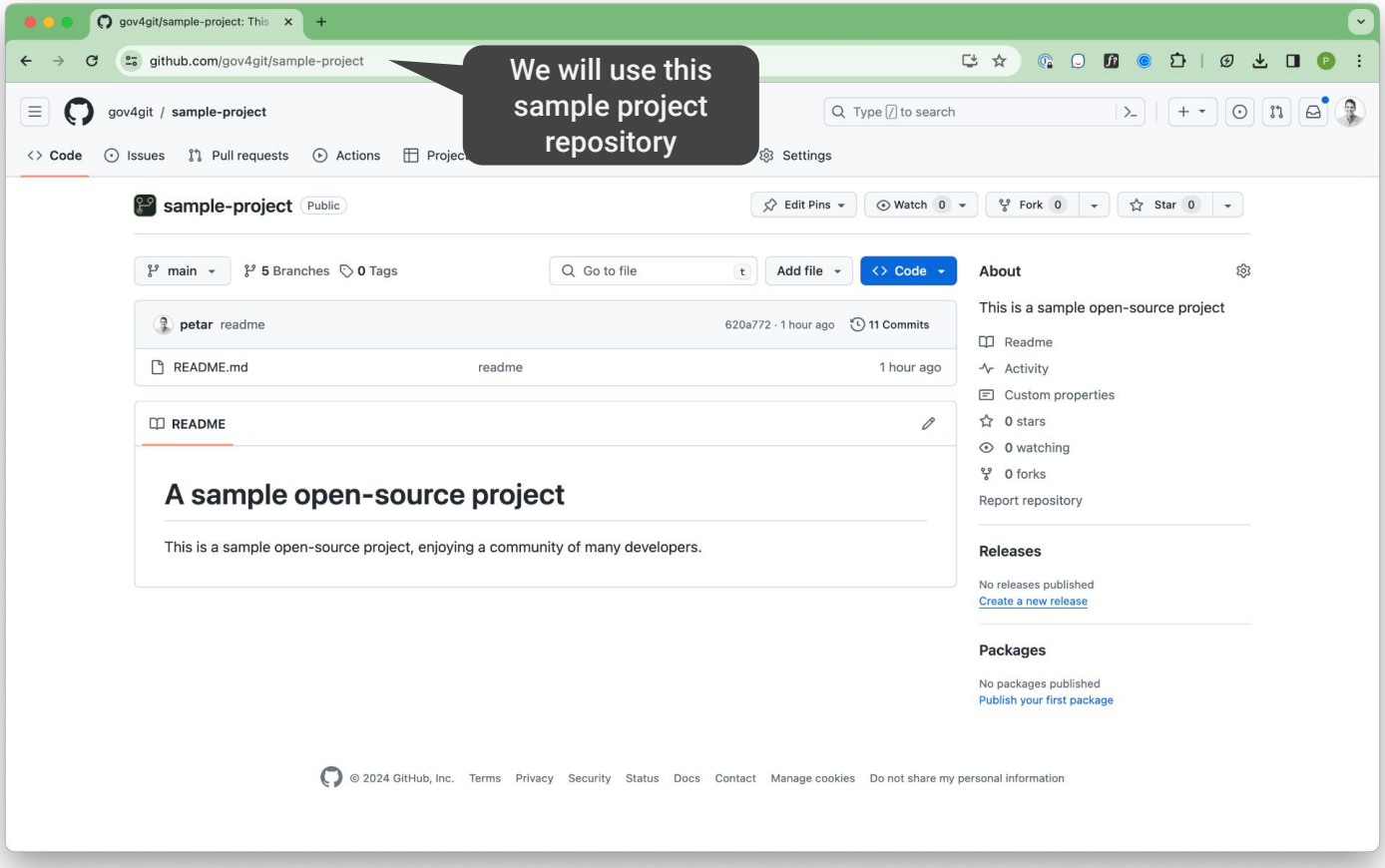
Gov4Git

Deploy, manage and collaborate

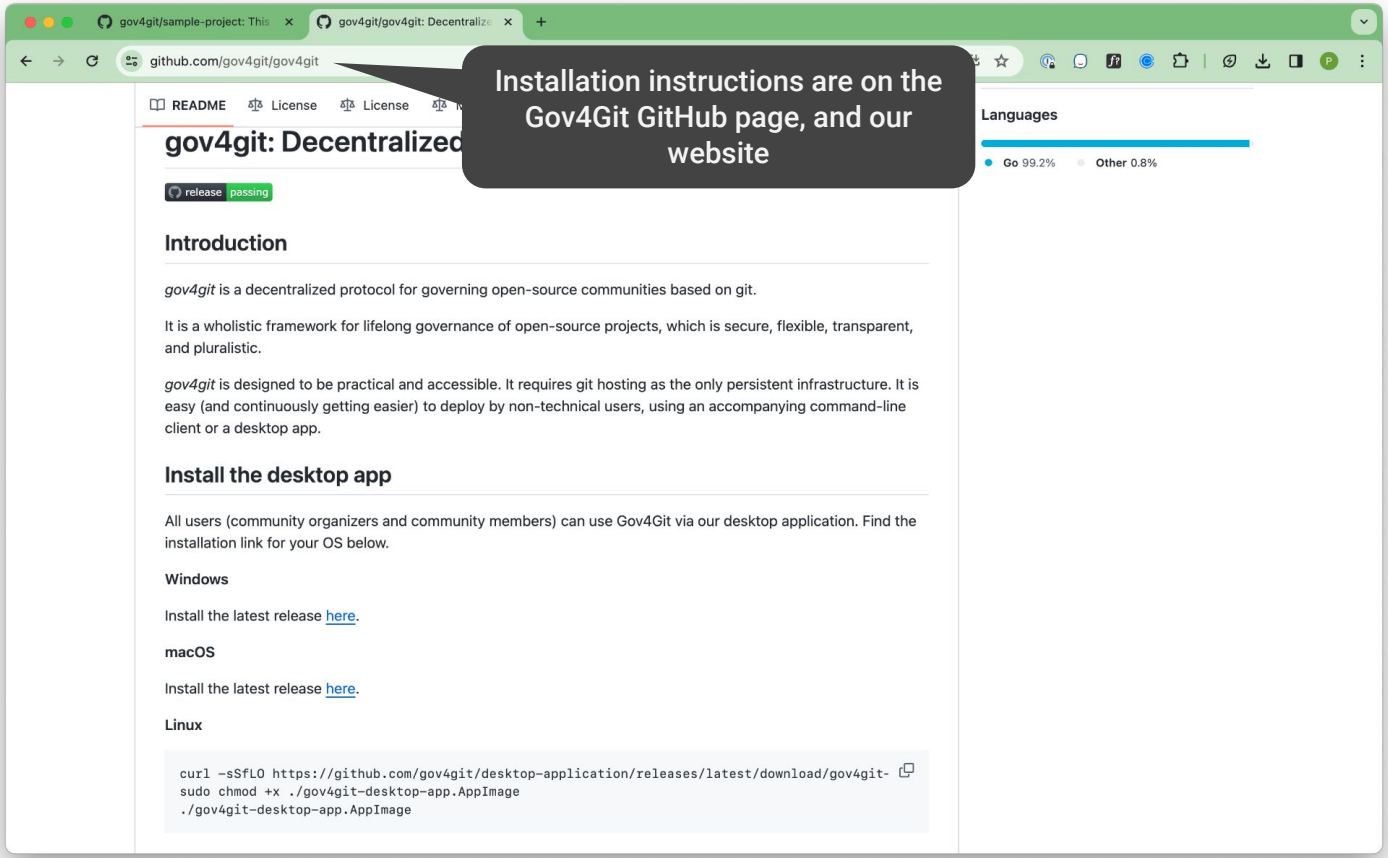
Deploy

For maintainers

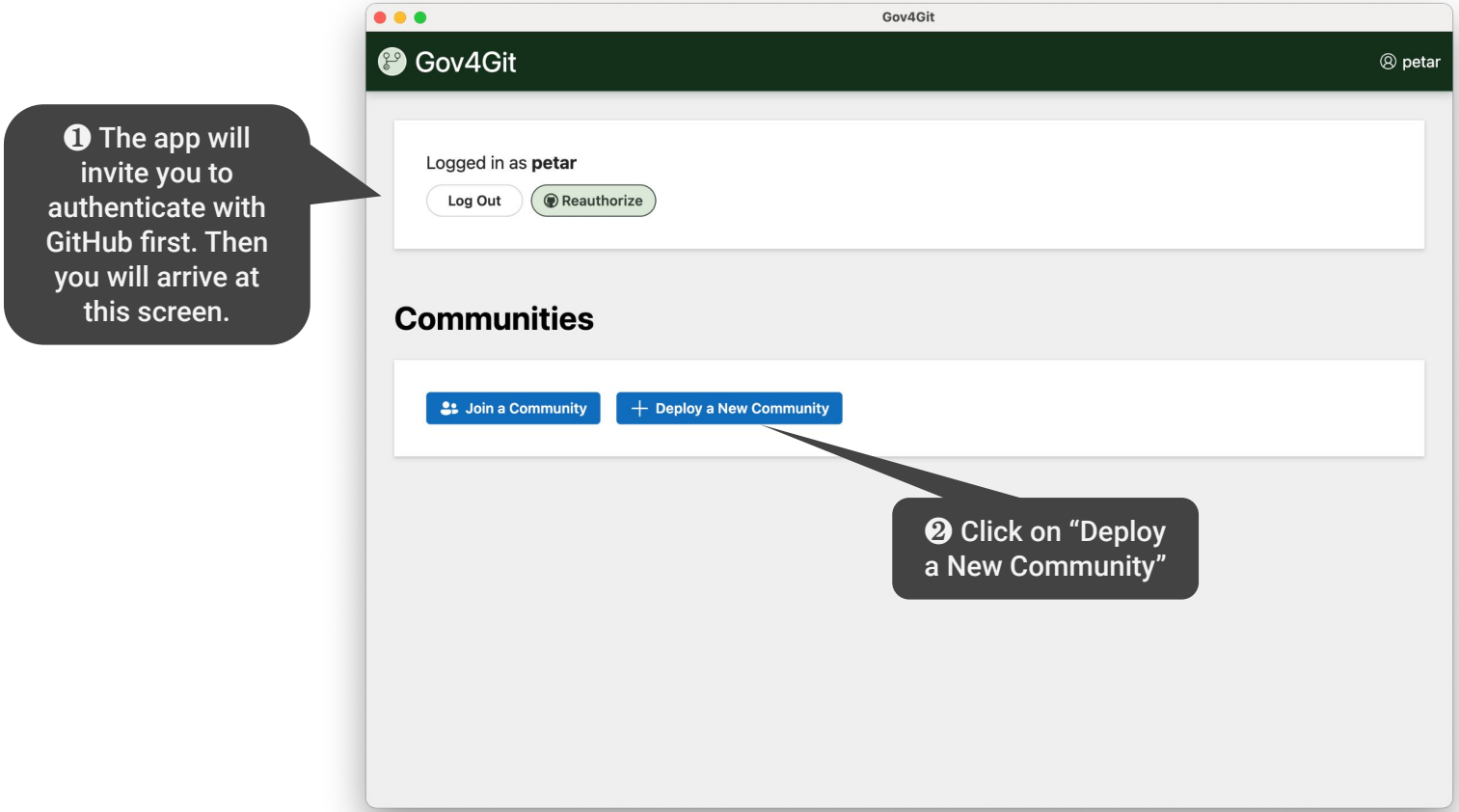
Pick any GitHub project that you want to govern with Gov4Git



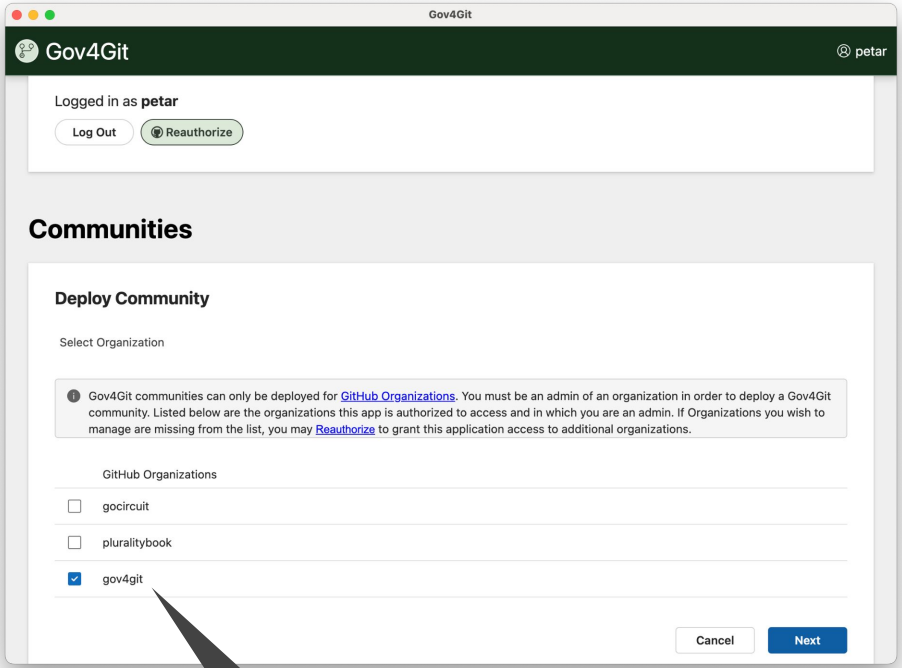
Install the Gov4Git desktop app

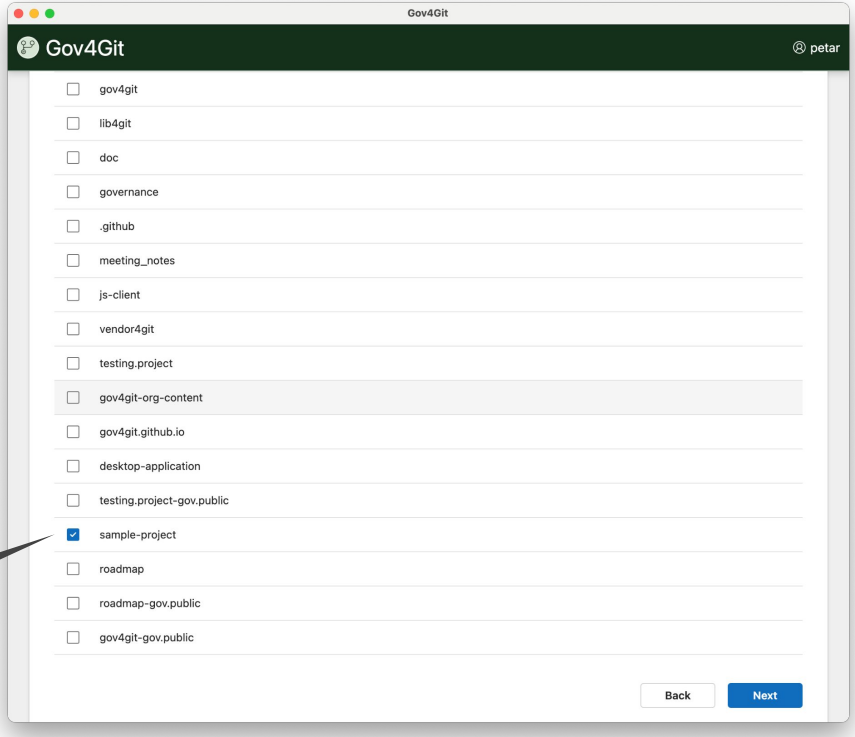


Start the Gov4Git desktop app



Specify which GitHub repo you want to govern

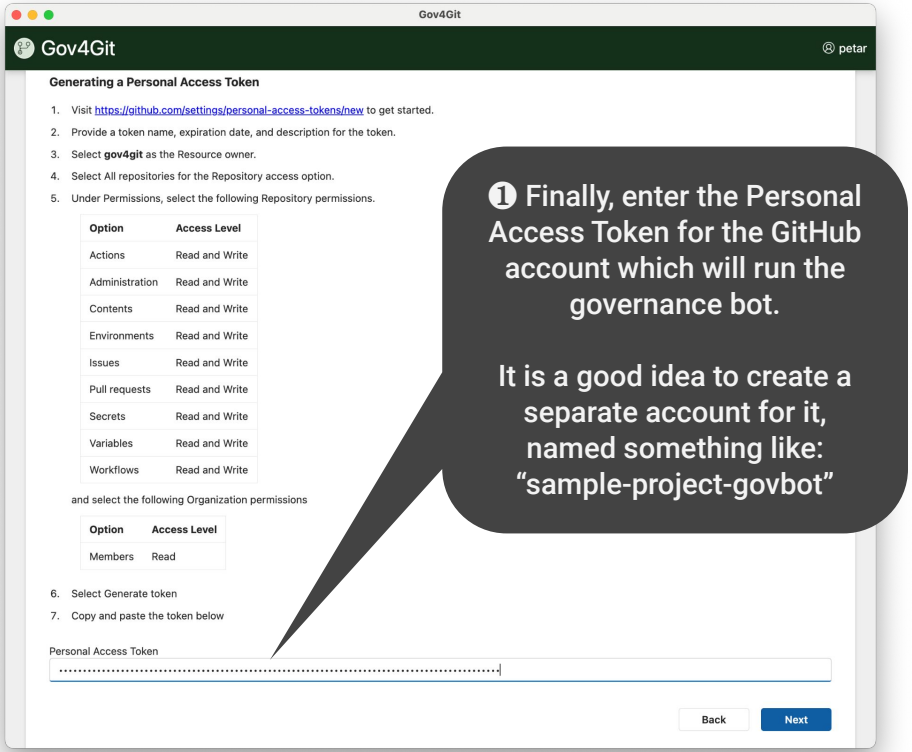




❶ Select the GitHub org of your project

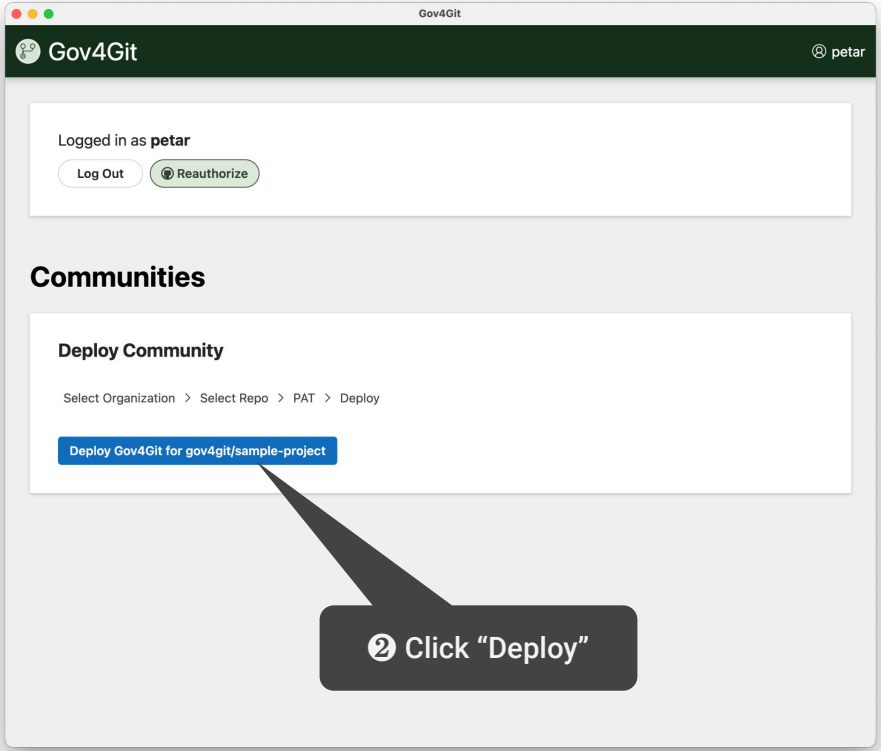
❷ Then select the project repository

Provide your maintainer GitHub credentials, and deploy



❶ Finally, enter the Personal Access Token for the GitHub account which will run the governance bot.

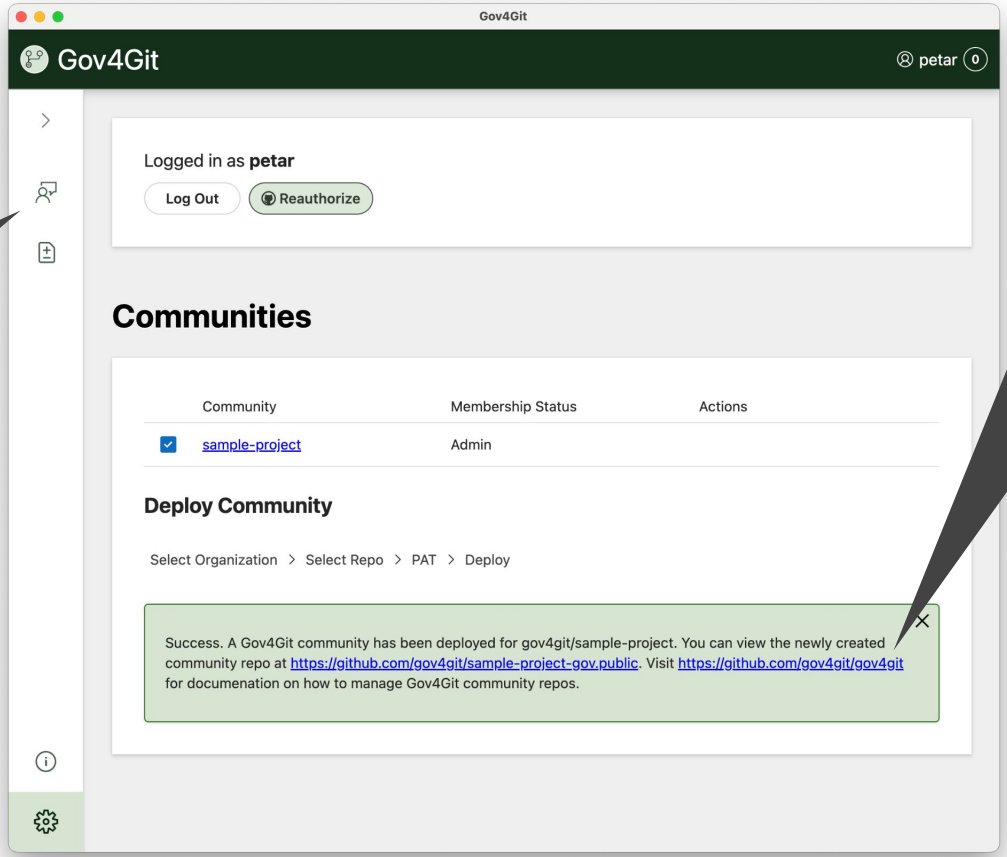
It is a good idea to create a separate account for it, named something like: “sample-project-govbot”



❷ Click “Deploy”

Confirmation governance has been deployed

❶ You will get a confirmation screen. Now governance is deployed and operational.



❷ Deploying governance does not write to your project repository.

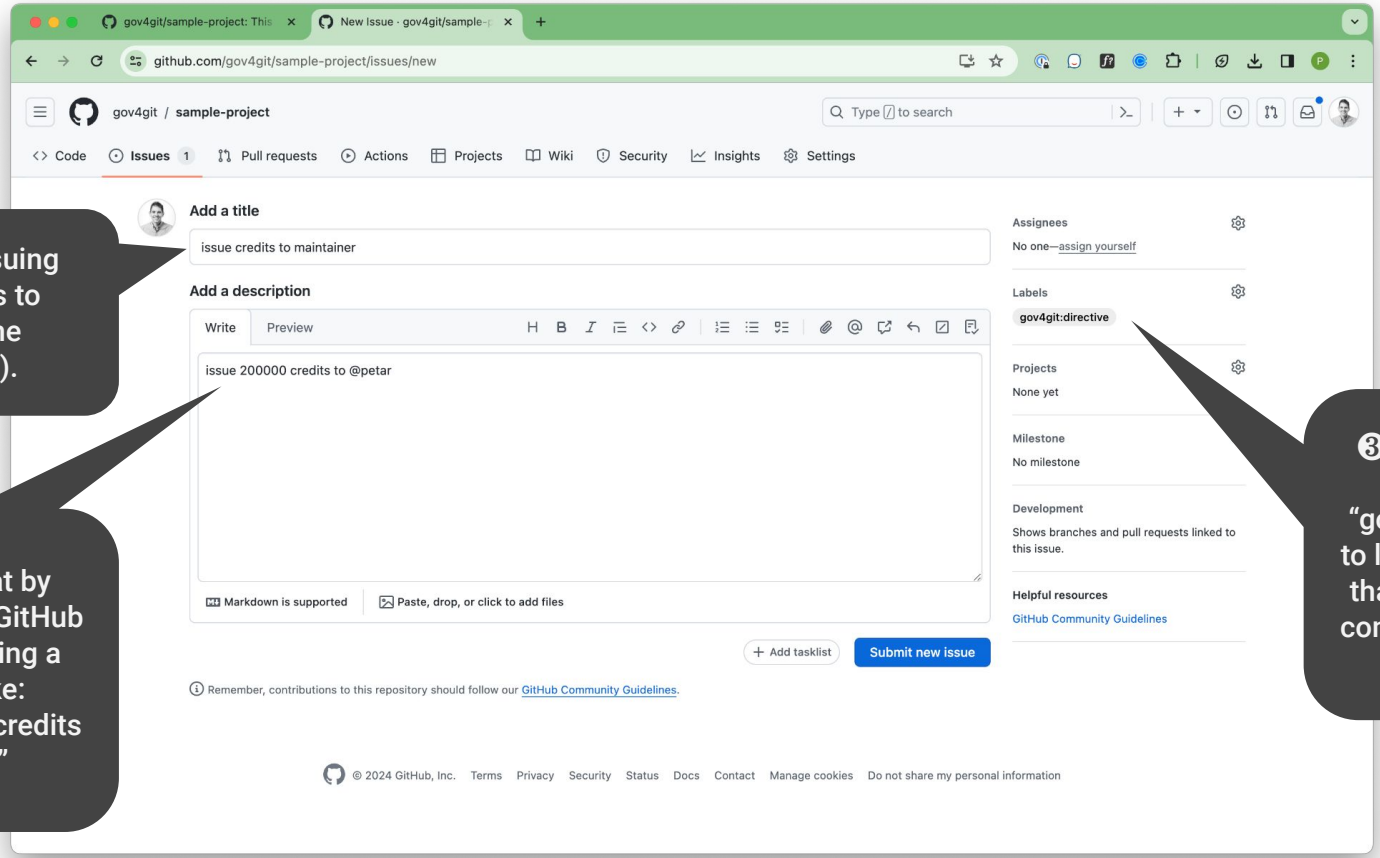
It creates two new repositories (one public, one private).

And installs the governance logic as a GitHub action in the public one.

Manage

For maintainers

Maintainers can issue credits to anyone



❶ Start by issuing some credits to yourself (the maintainer).

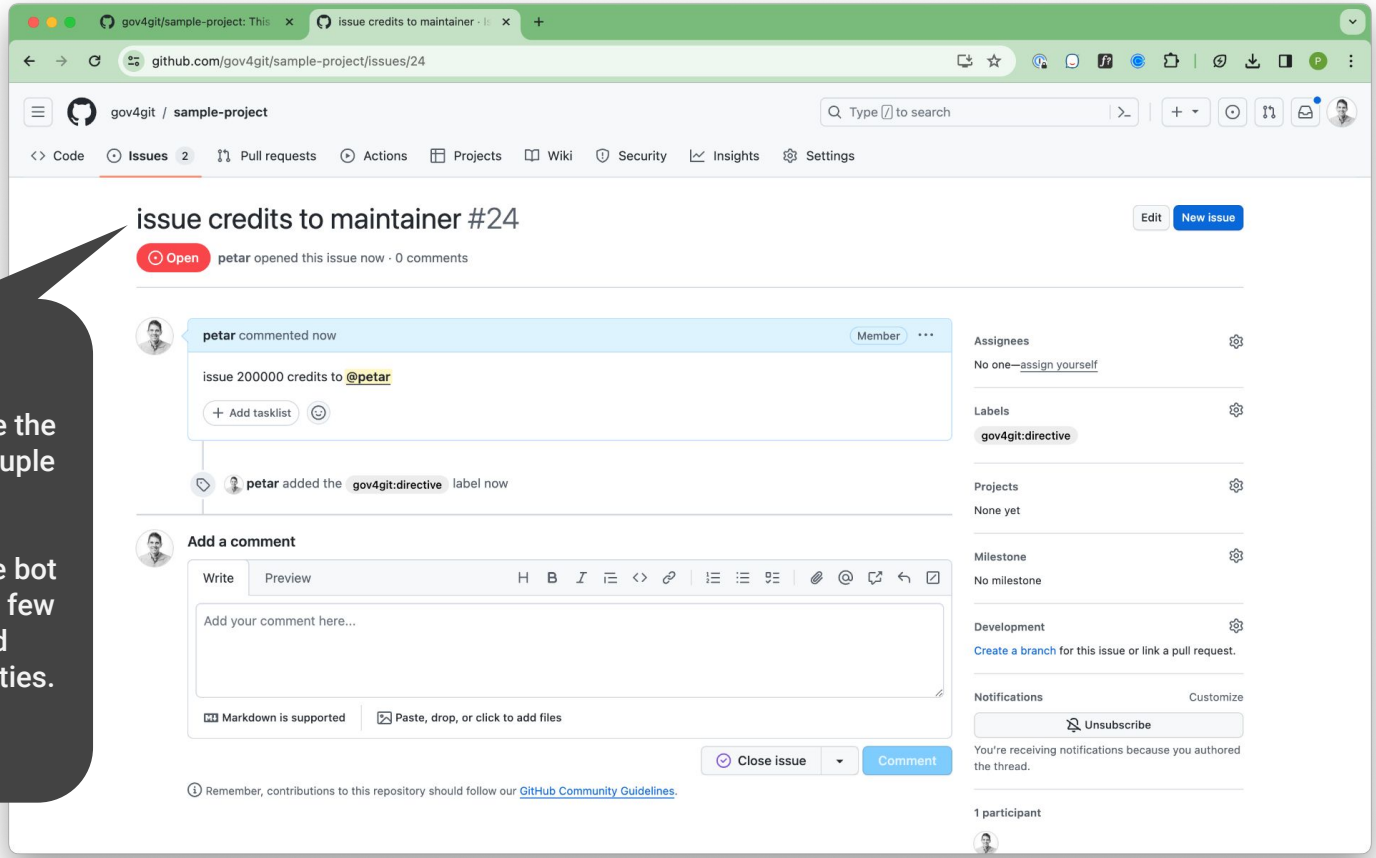
❷ You do that by creating a new GitHub issue, containing a directive like: “Issue 200000 credits to @petar”

❸ Then label the issue as “gov4git:directive” to let Gov4Git know that this issue is a command you want it to execute.

Wait a couple of minutes

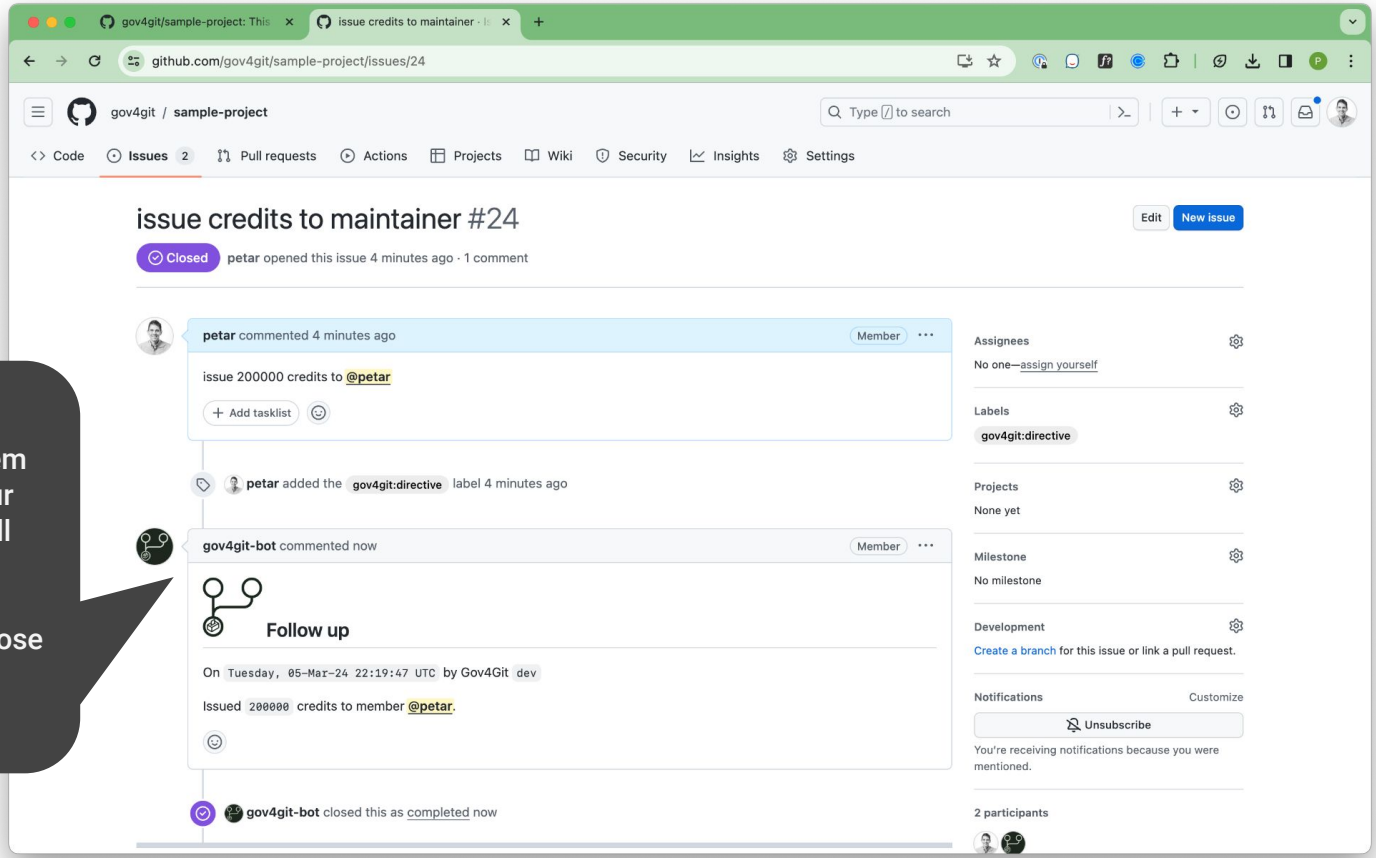
After you create the issue, wait a couple of minutes.

The governance bot wakes up every few minutes and performs its duties.

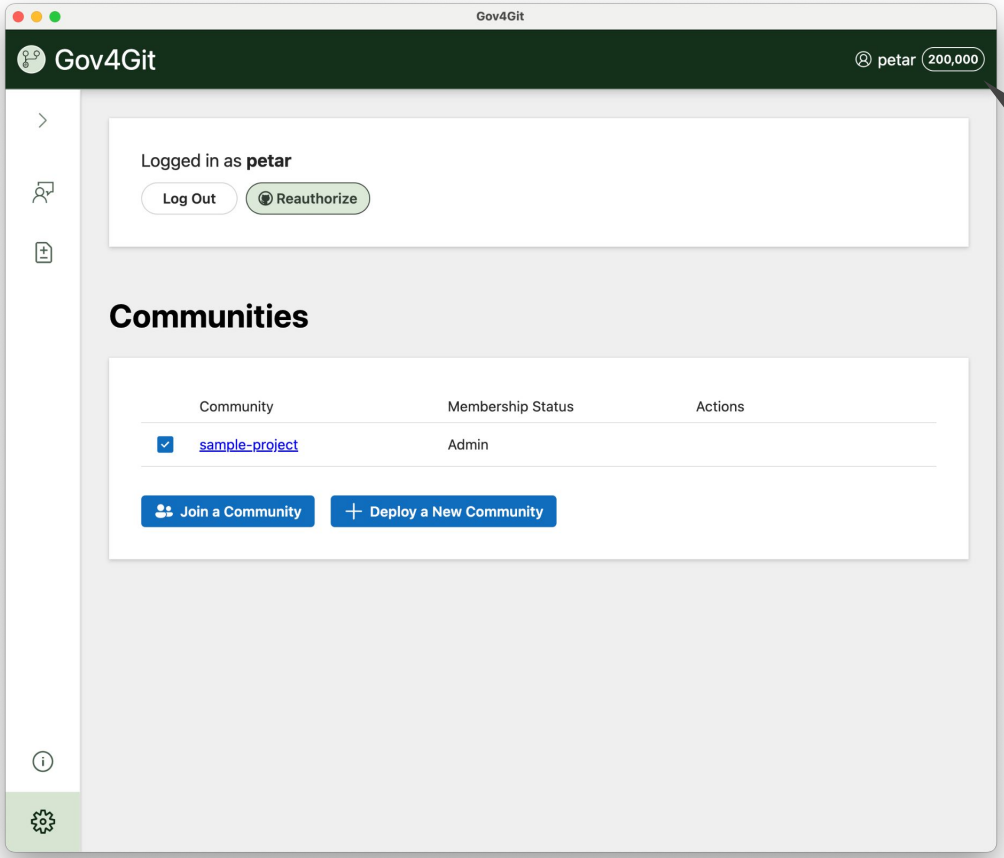


You will see a confirmation when the task is completed

When the system processes your directive, it will produce a confirmation comment and close the issue.



You can see your balance in the app too



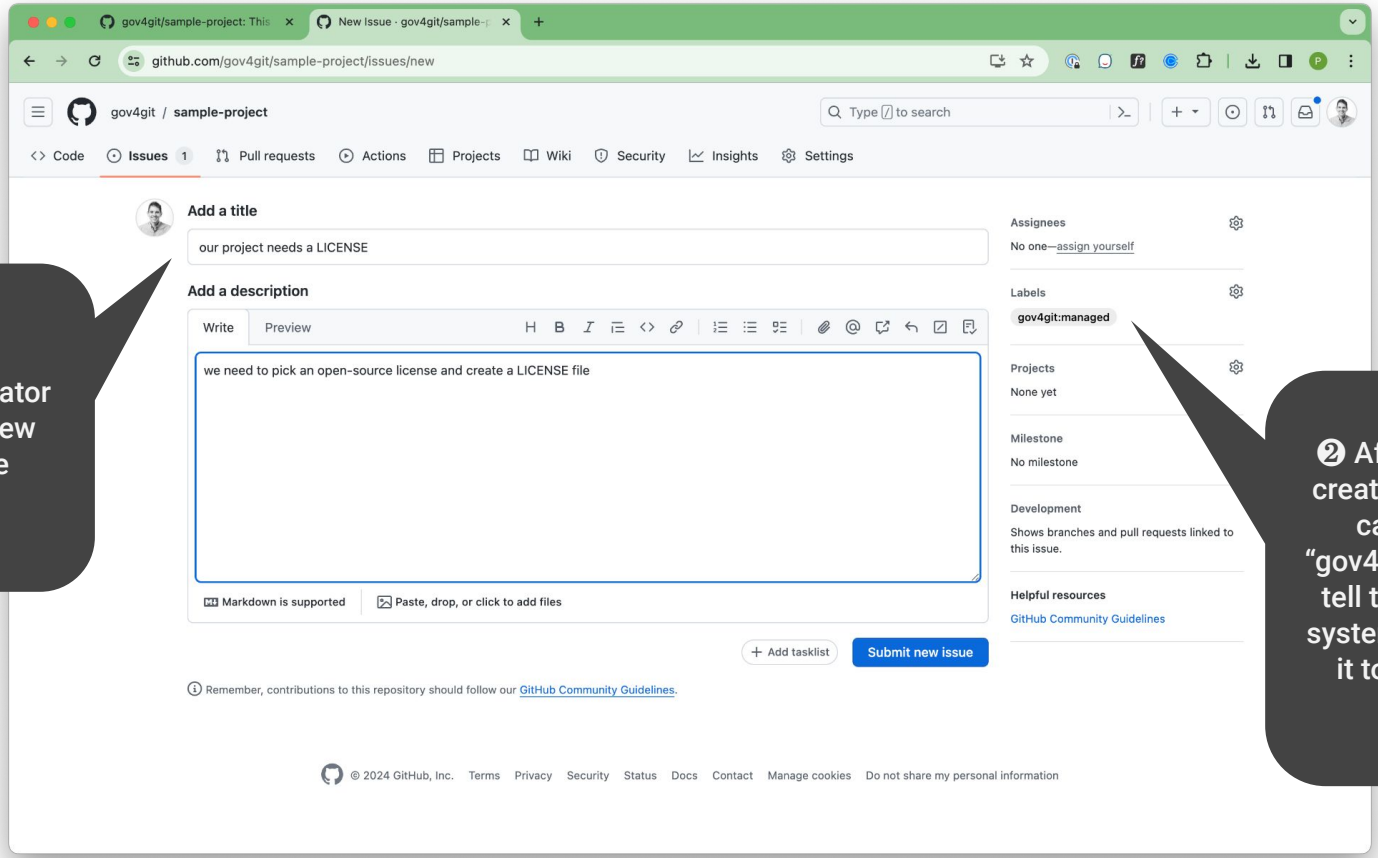
If you go back to the desktop app, you will see your updated balance in the top right corner.

Collaborate

For collaborators and maintainers

Issues

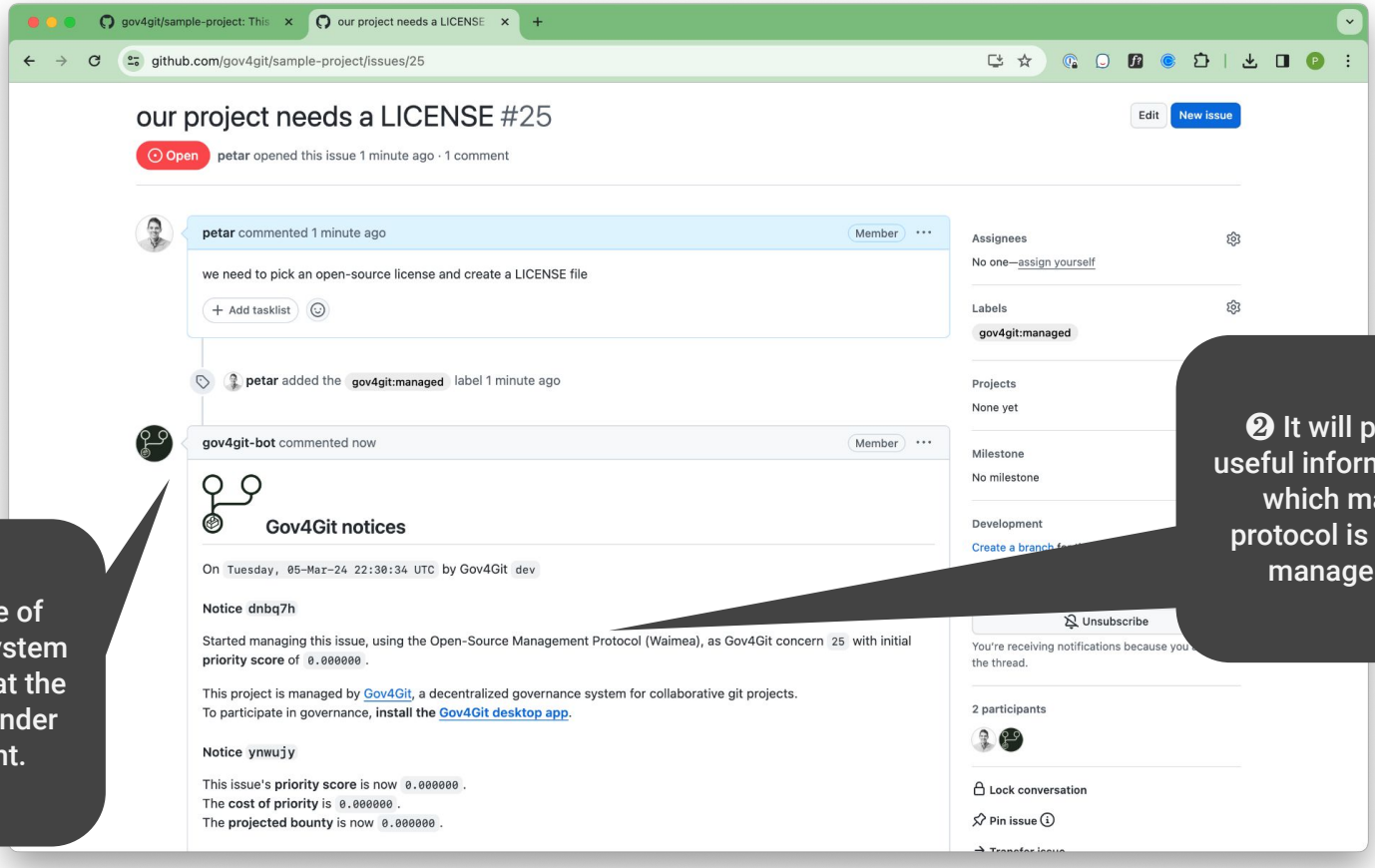
Collaborators create project issues freely



❶ Any collaborator can create a new project issue

❷ After the issue is created, maintainers can label it as “gov4git:managed” to tell the governance system that you want it to manage this issue.

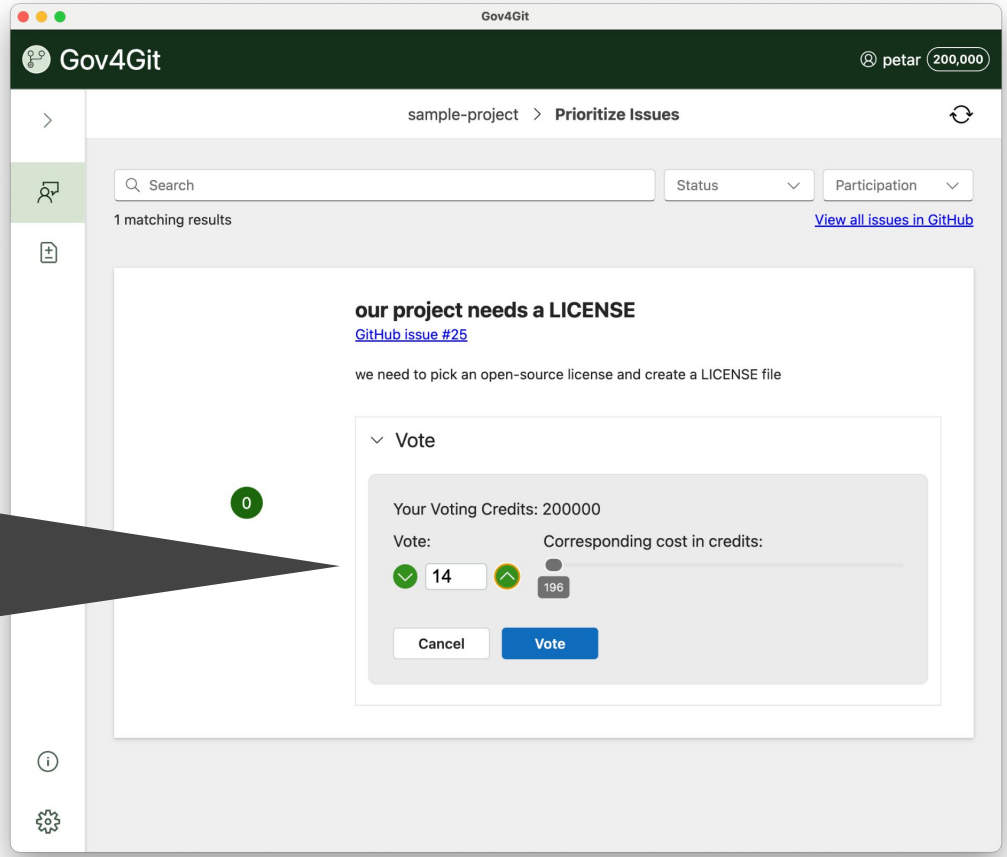
Wait until the system acknowledges the issue is under management



❶ In a couple of minutes, the system will confirm that the issue is now under management.

❷ It will provide some useful information, such as which management protocol is being used to manage this issue.

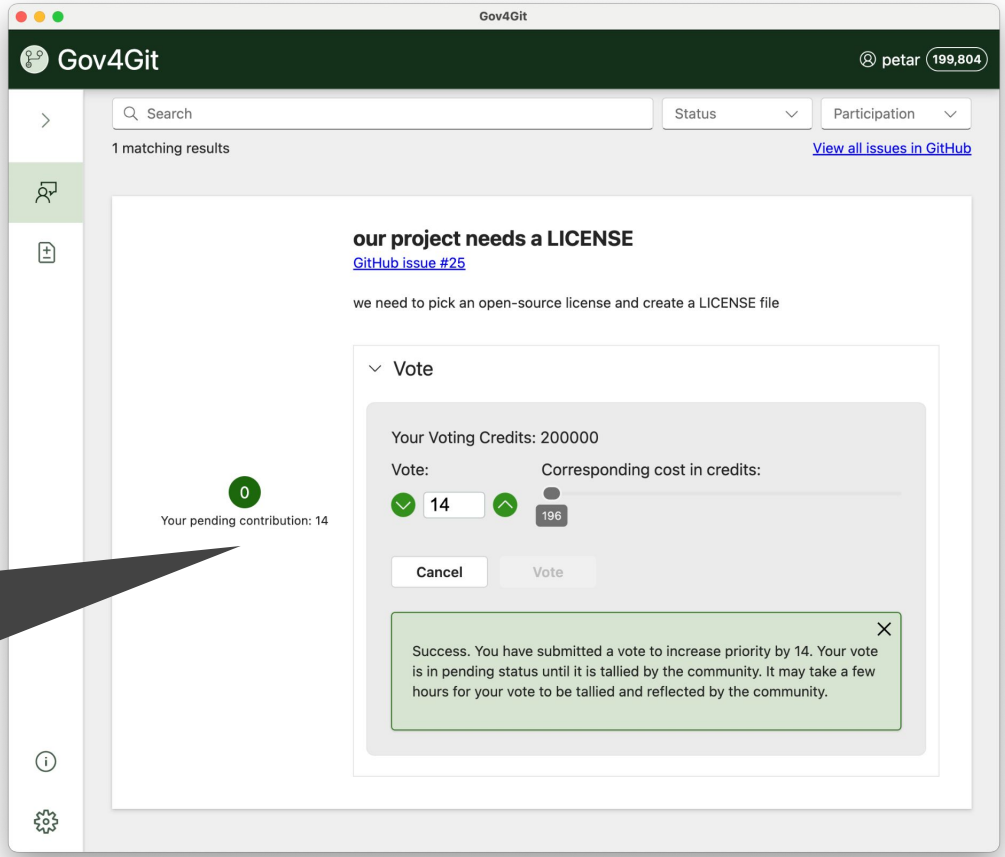
Collaborators can vote on managed issue



Once an issue is under management, all collaborators will be able to see it in the desktop app and cast a vote on it.

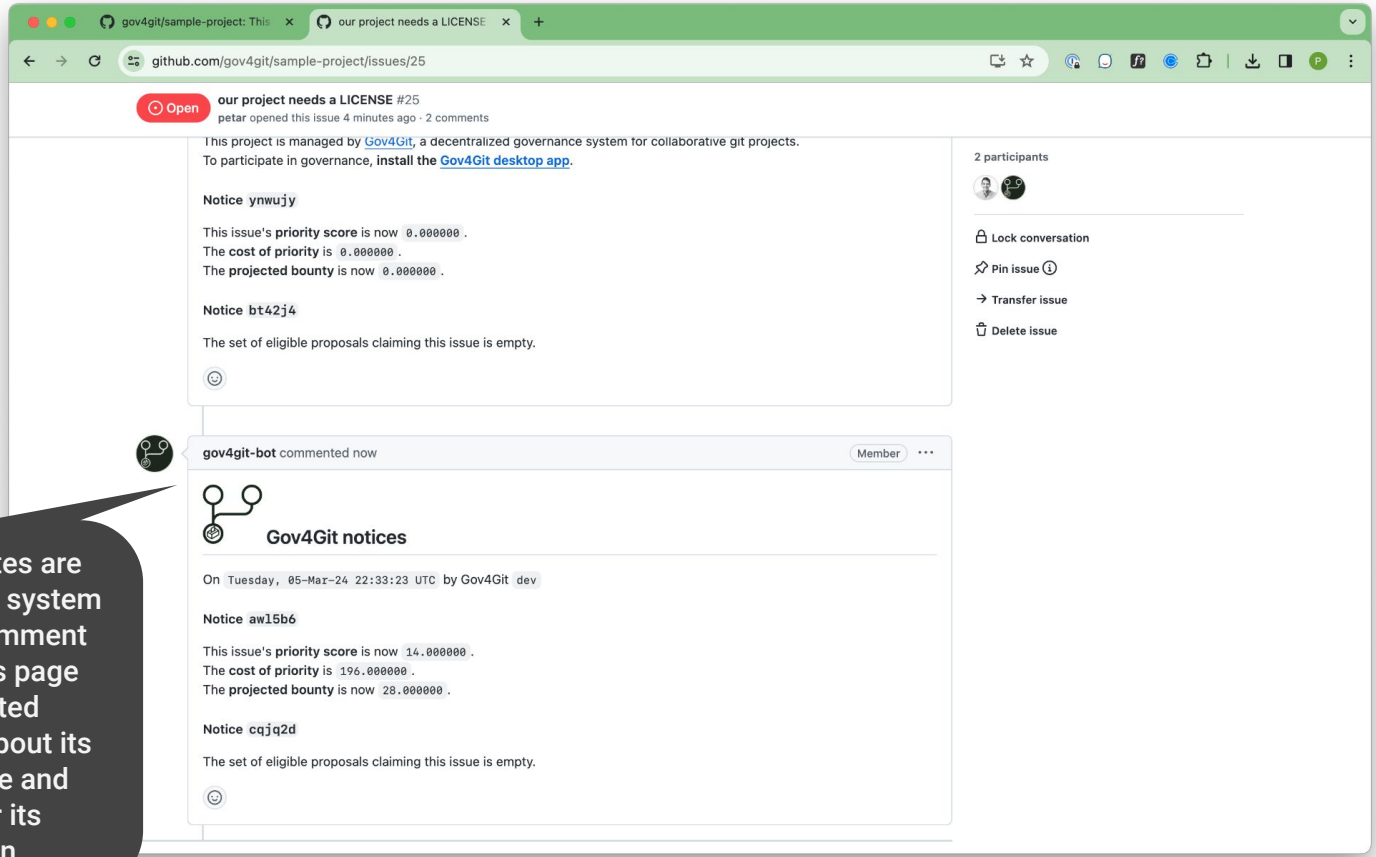
Multiple votes (up or down) can be cast at any time as long as the issue is open.

Voting confirmation and pending votes



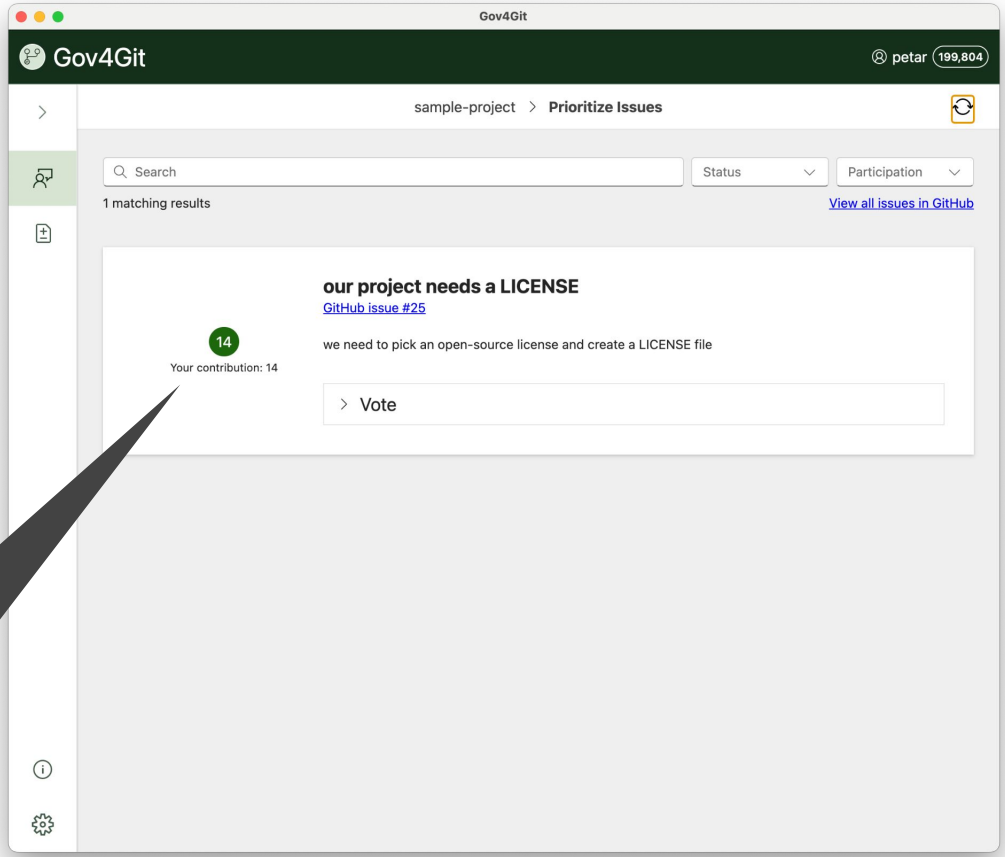
After you submit your vote, it will be shown as pending until it is processed by the governance system. This usually takes a few minutes.

Vote scores are also shown on the GitHub issue page



After new votes are processed, the system will post a comment on the issue's page with updated information about its priority score and bounty for its resolution.

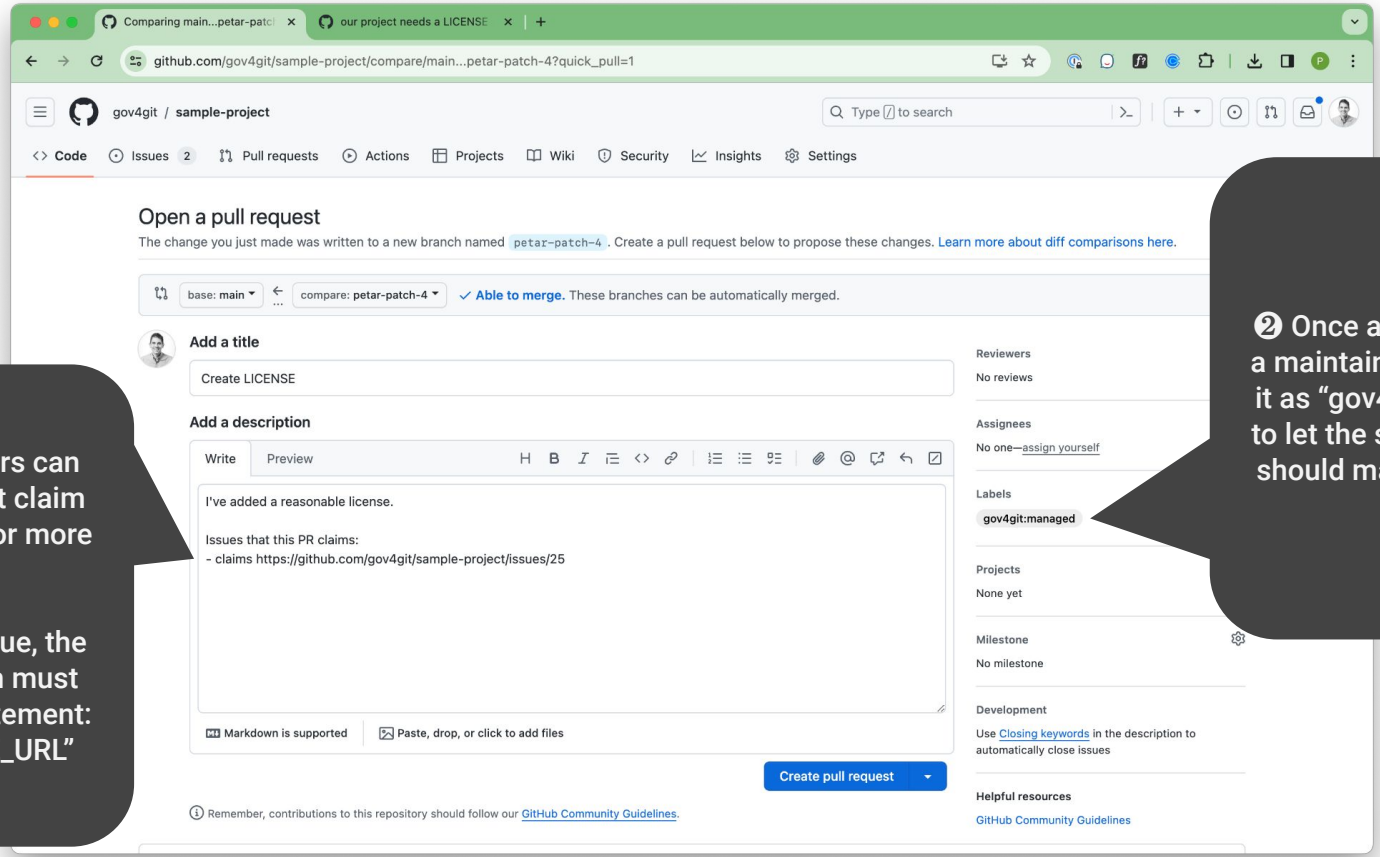
The desktop app also reflects your processed votes



The desktop app will also reflect that your vote has been processed, by displaying the overall tally and your individual contribution.

PRs

Collaborators can freely create PRs that claim to address issue(s)



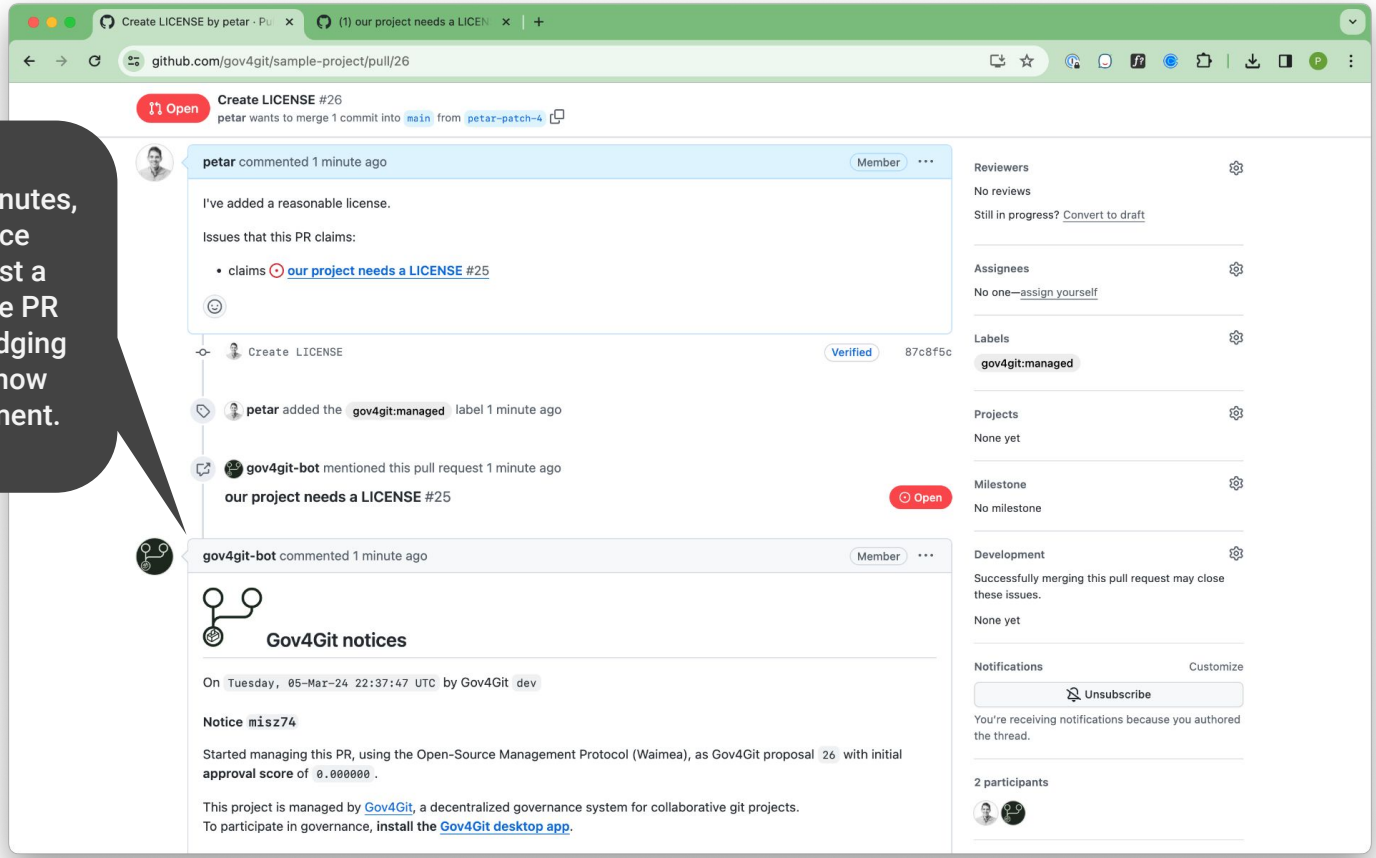
❶ Collaborators can create PRs that claim to resolve one or more issues.

To claim an issue, the PR description must include the statement: “claims ISSUE_URL”

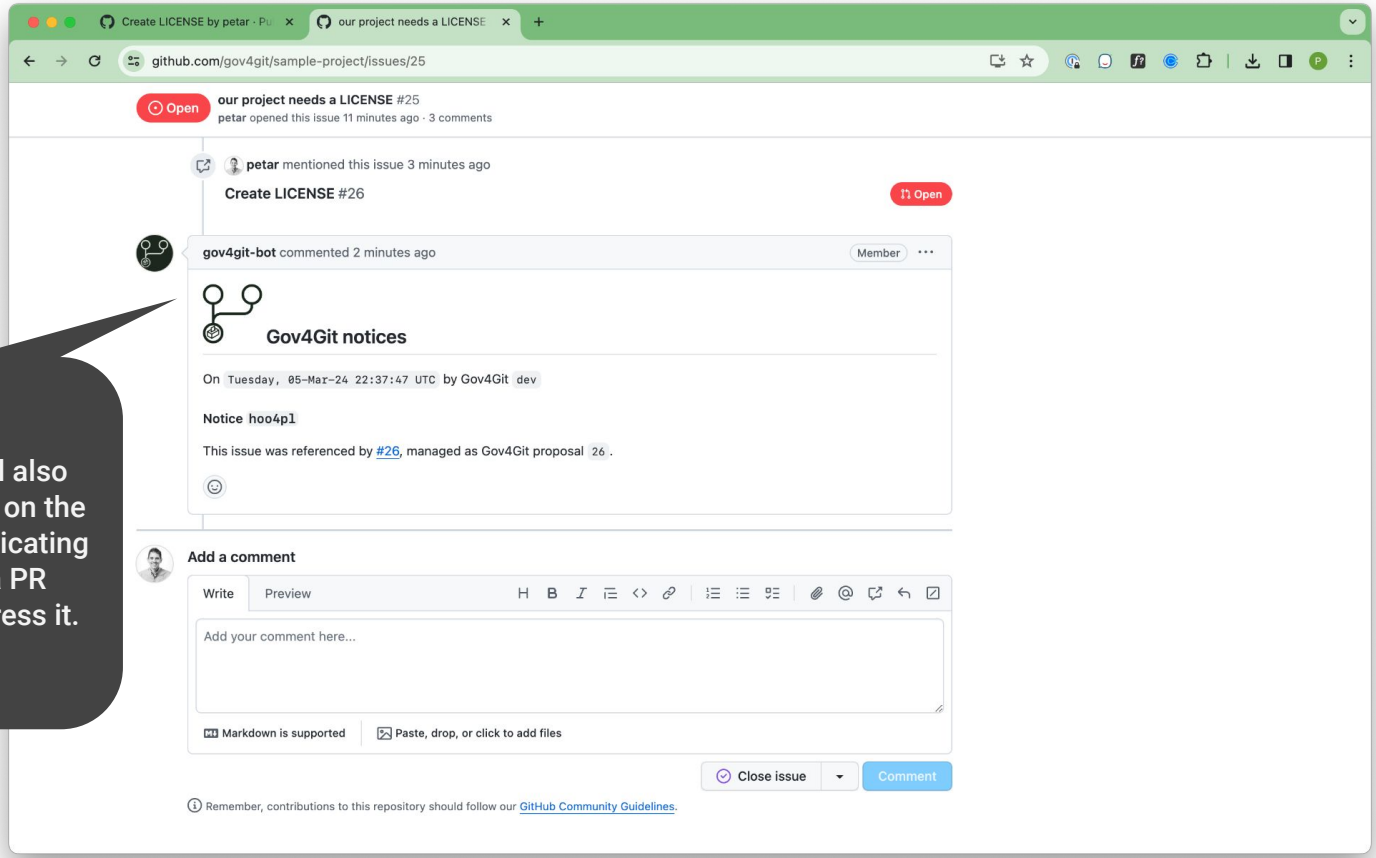
❷ Once a PR is created, a maintainer has to label it as “gov4git:managed” to let the system know it should manage this PR.

Wait for acknowledgement that the PR is under management

In a couple of minutes, the governance system will post a comment on the PR page, acknowledging that the PR is now under management.



The issue will be notified that there is a PR claiming to address it

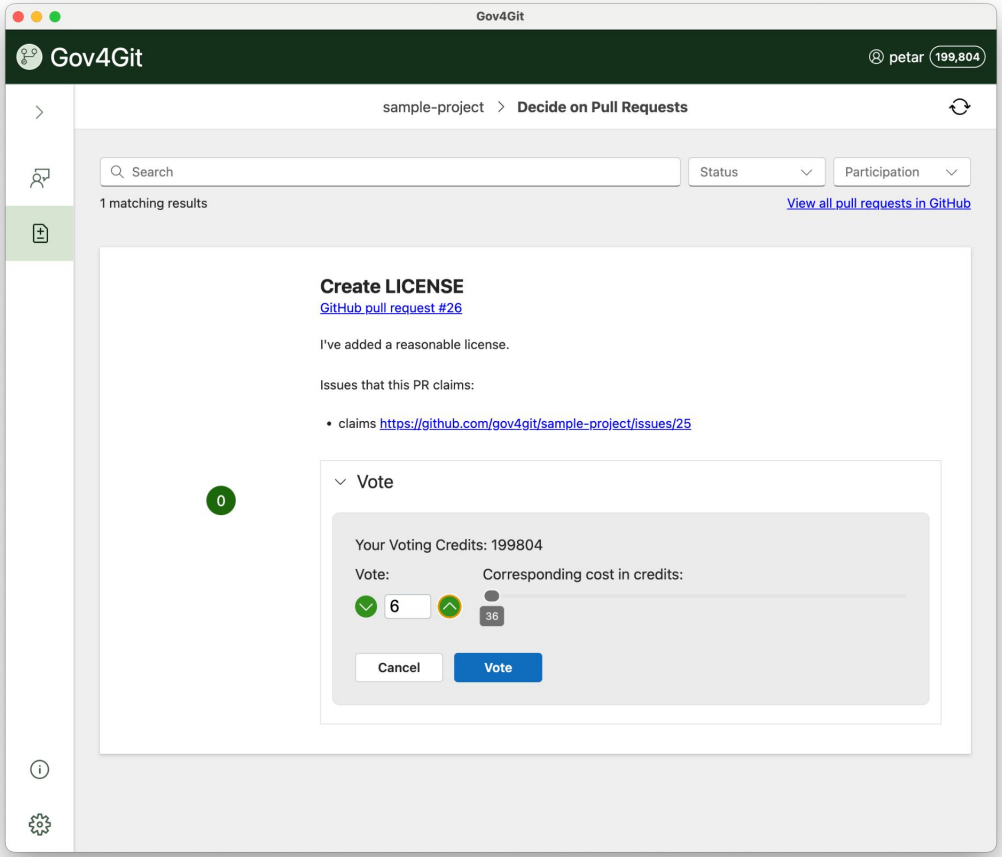


The system will also post a comment on the issue's page, indicating that there is a PR claiming to address it.

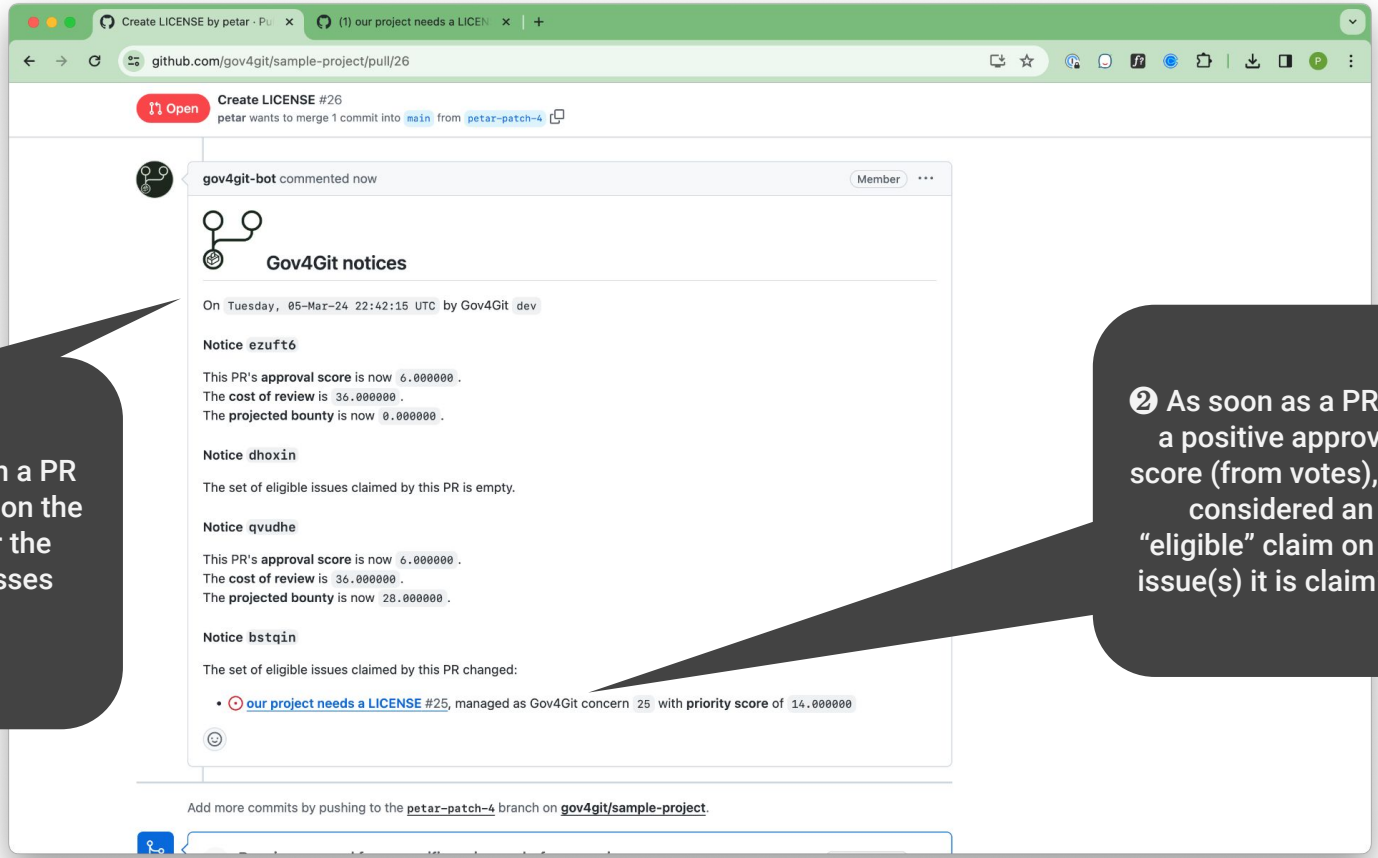
Collaborators can now vote on the PR

All collaborators will see the PR in their desktop app, and be able to cast a vote.

Multiple votes (up or down) can be cast at any time, while the PR is open.



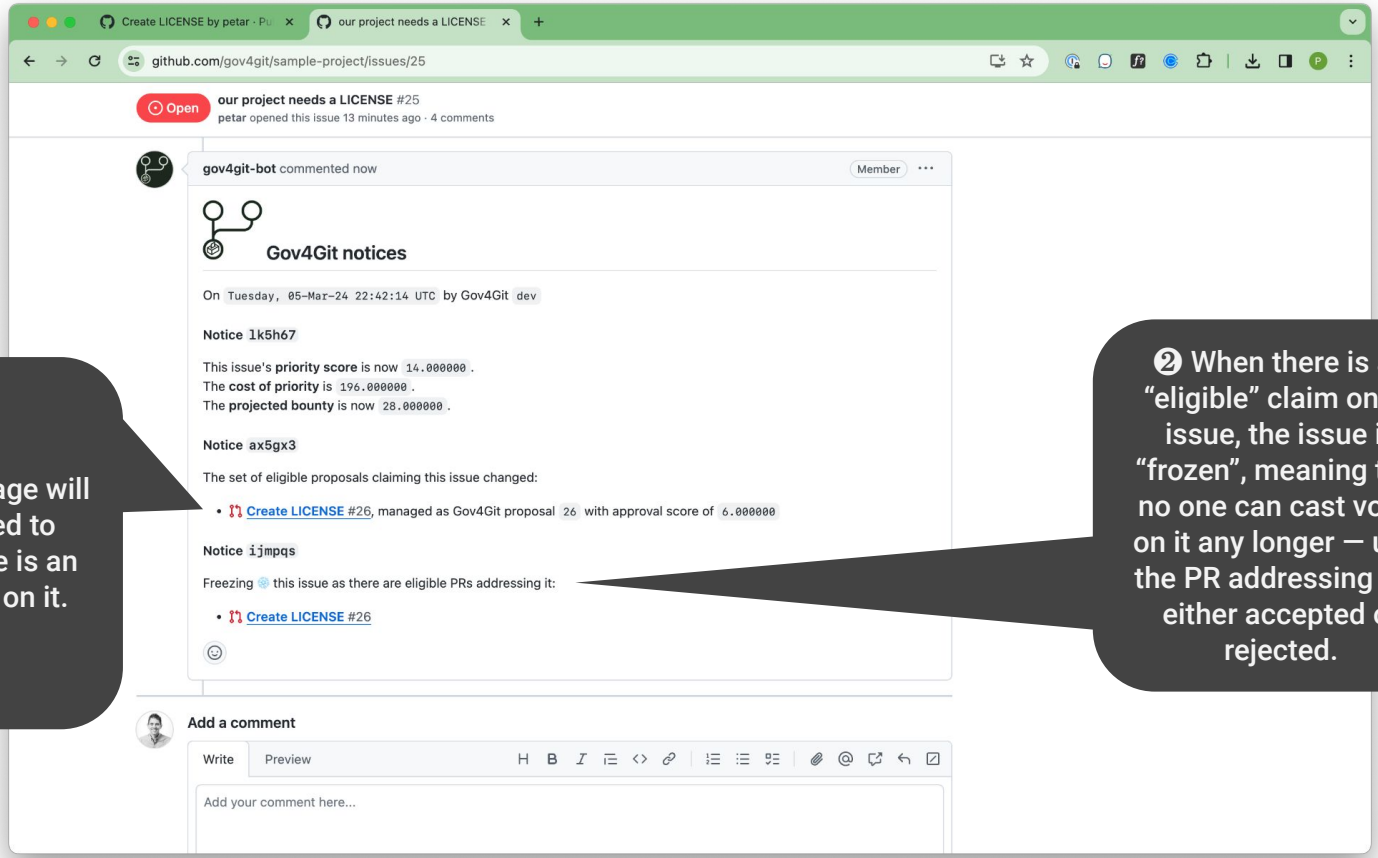
PRs with positive votes are considered “eligible”



❶ Votes cast on a PR will be reflected on the PR page, after the system processes them.

❷ As soon as a PR has a positive approval score (from votes), it is considered an “eligible” claim on the issue(s) it is claiming.

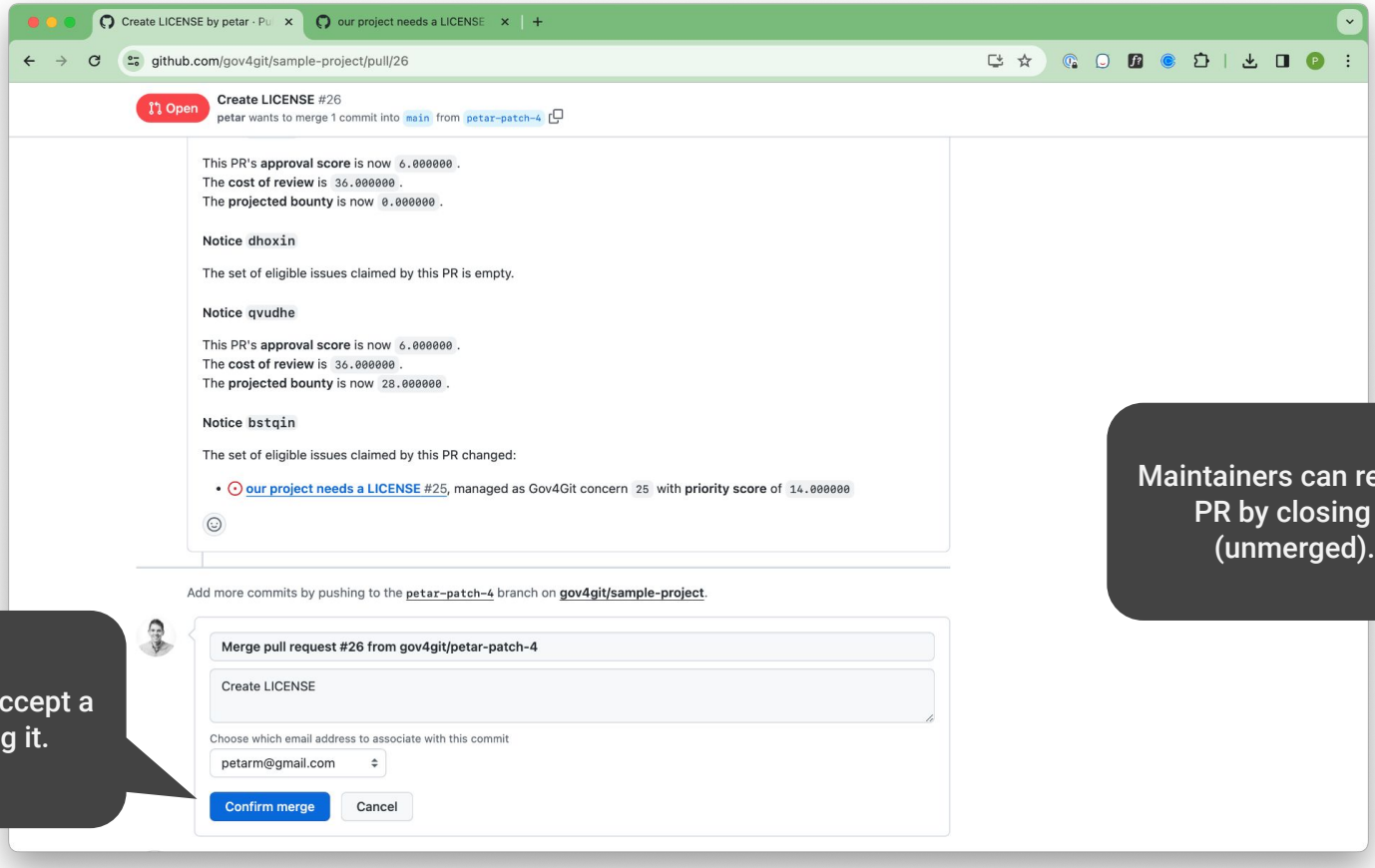
An eligible PR will freeze an issue until the PR is accepted or rejected



❶ The issue's page will also be updated to reflect that there is an "eligible" claim on it.

❷ When there is an "eligible" claim on an issue, the issue is "frozen", meaning that no one can cast votes on it any longer — until the PR addressing it is either accepted or rejected.

Maintainers accept a PR by merging it

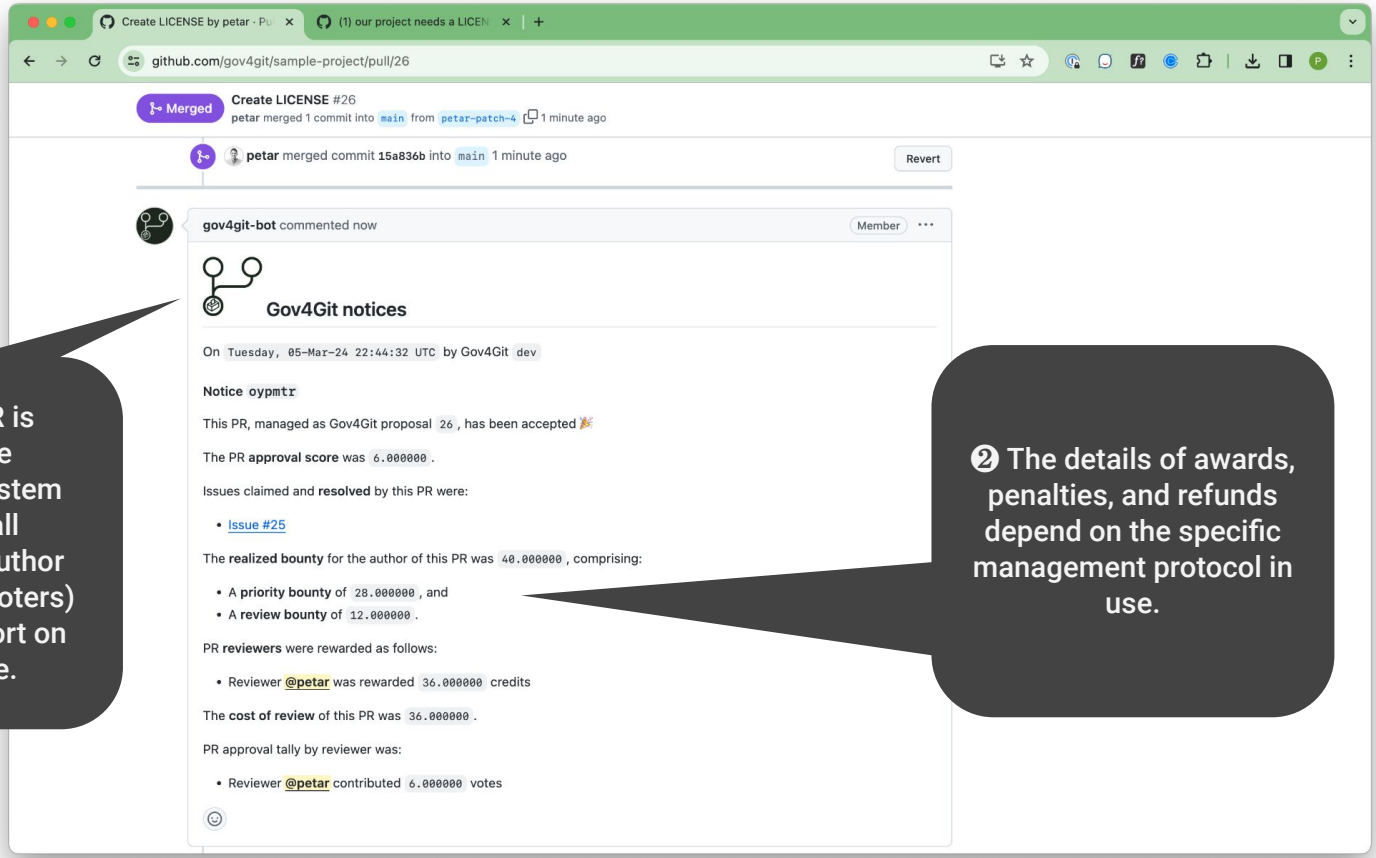


❶ Maintainers accept a PR by merging it.

Maintainers can reject a PR by closing it (unmerged).

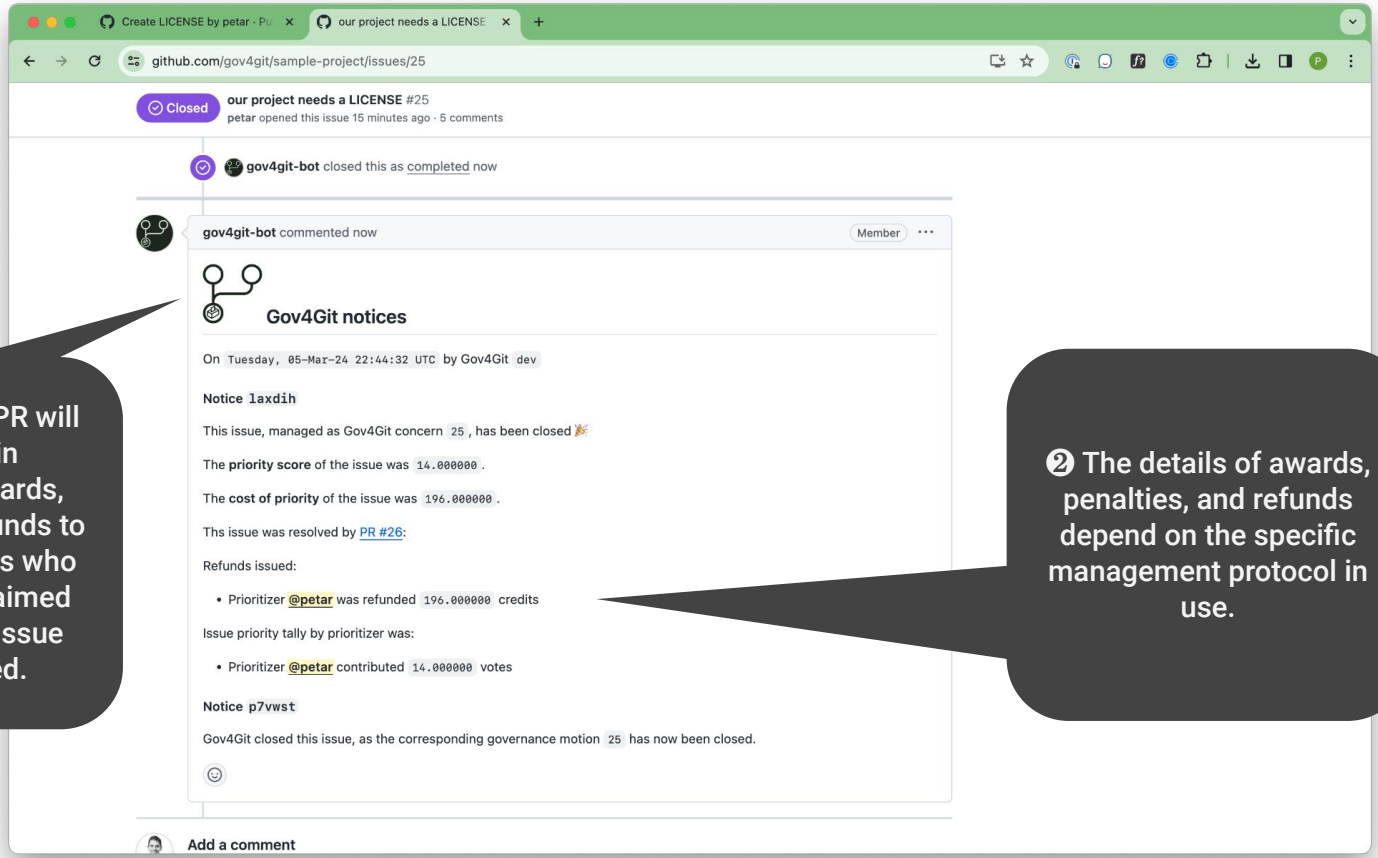
Accepting a PR triggers distribution of awards and bounties

❶ After a PR is merged, the governance system will award all participants (author and reviewing voters) and post a report on the PR page.



❷ The details of awards, penalties, and refunds depend on the specific management protocol in use.

Merging a PR also updates the claimed issue(s)



❶ Merging the PR will also result in distributing awards, penalties, or refunds to the collaborators who voted on the claimed issue, and the issue will be closed.

❷ The details of awards, penalties, and refunds depend on the specific management protocol in use.