

COURSEWARE

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Adding SonarQube Issues to GitHub

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Overview

Now that we have had SonarQube run a code analysis for us - flagging bugs, code smells and telling us what our coverage percentage is - we can add those issues that SonarQube told us about to our GitHub project.

Adding these issues to our project in our GitHub repository allows us to view all the issues in our source code easily, as it is all in one place, and also means that we can follow the feature-branch model much easier.

Tutorial

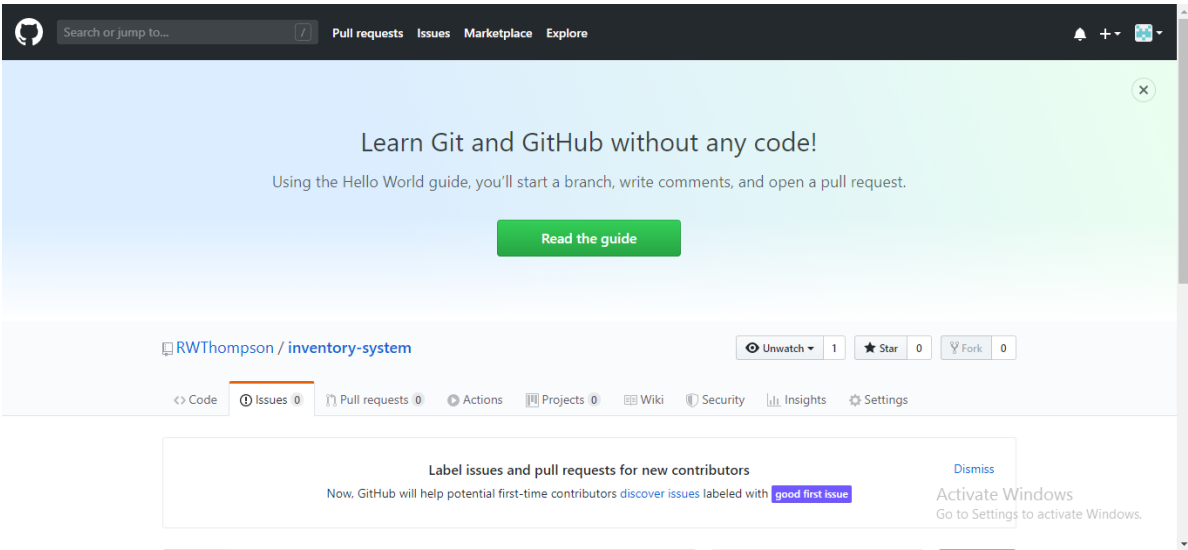
In order to add an issue to our project's GitHub repository, we first need to go to SonarQube and find the issue we want to add.

Once you have found the issue you want to add, follow these steps to add it to GitHub:

1. Open GitHub in your browser and login.
2. In the top right of the screen; click your profile picture, then "Your repositories".
3. Find the relevant project and click on the project name, in this case "inventory-system".

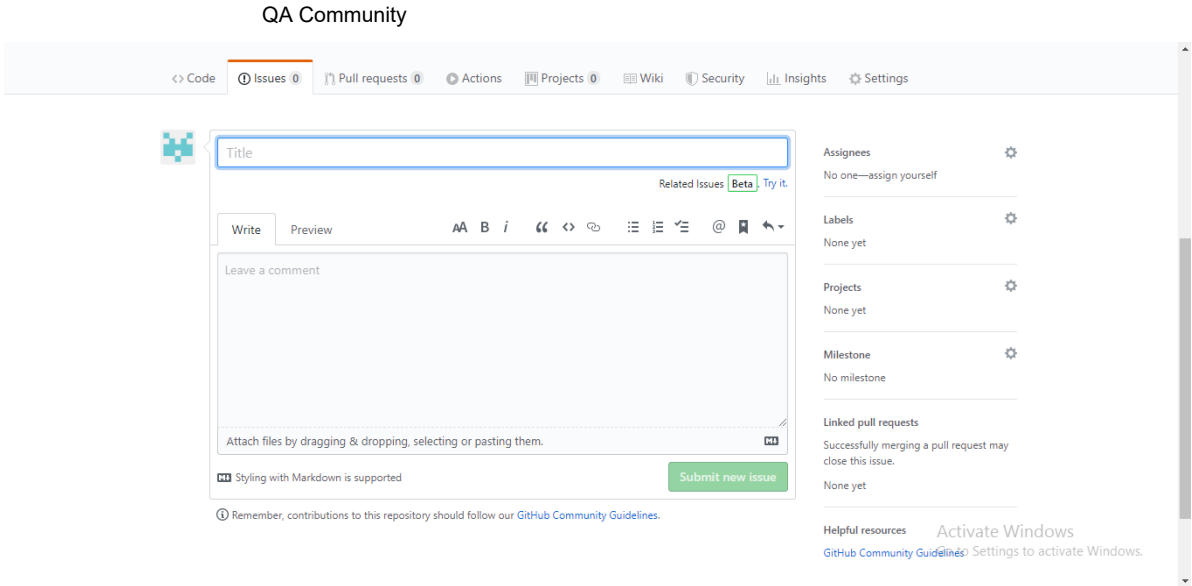


You should land on a screen that looks like the following:



4. Now scroll down and click "New issue" you should get to a screen that looks like the following:

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5. On this screen, fill in the "Title" and a description in the "Leave a comment" section for the issue you are creating.

You could use the rule name that SonarQube flagged as the title of the issue and fill in some description as to where the issue is in the comment section, such as "The issue is in this class on that line of code".

You can also permalink the offending code in SonarQube and link it in the comment section of the rule.

6. If you want to permalink the offending code in SonarQube, go to SonarQube and find the bug or code smell that you are creating an issue for.
7. Once you have found the offending code, in the top right of the issue card you can find a chain button (see below), if you click that it will create a permalink for the issue that you can then link in your new GitHub issue.



8. After clicking the chain button, a new tab will open with the permalink for the issue, you can now copy the url and paste that into the comment section of your rule so that whoever comes along to fix the issue has a really easy way of seeing the offending code.
9. Now that we have filled in a title and description for our GitHub issue we can click the "Submit new issue button" at the bottom to create our issue in GitHub.

Exercises

There are no exercises for this module.