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Code Smells

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Overview

Code Smells refer to any symptom in the source code that could indicate a deeper issue.

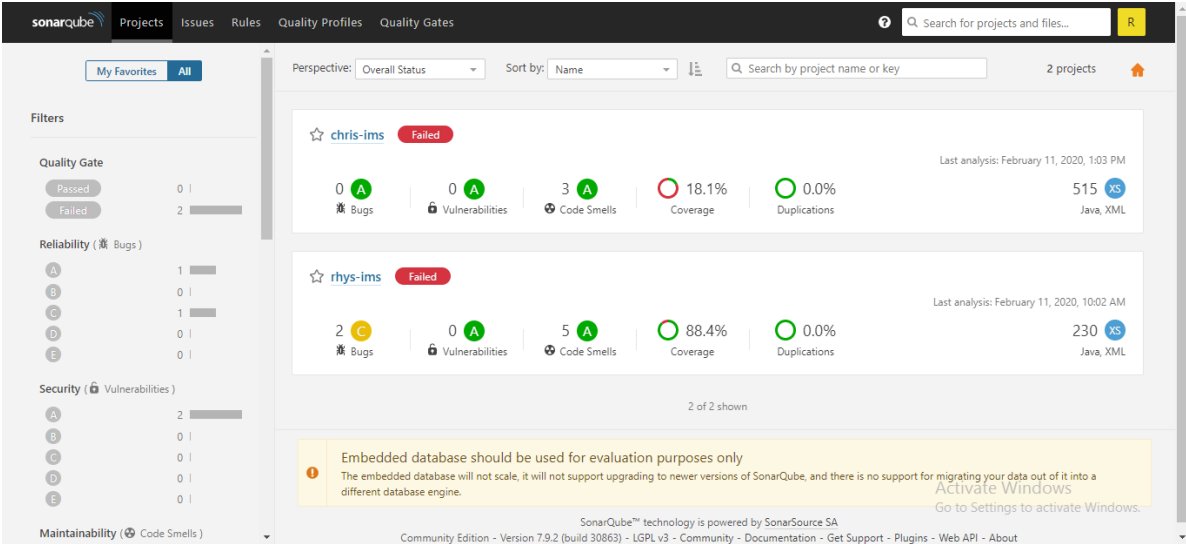
They indicate weaknesses in the design of the code, which can slow down development or increase the risk of bugs in the future. Code smells are not bugs.

Code smells imply additional work will be needed later, usually caused by choosing an easy solution now instead of using a better approach that would take longer (this is known as technical debt).

Tutorial

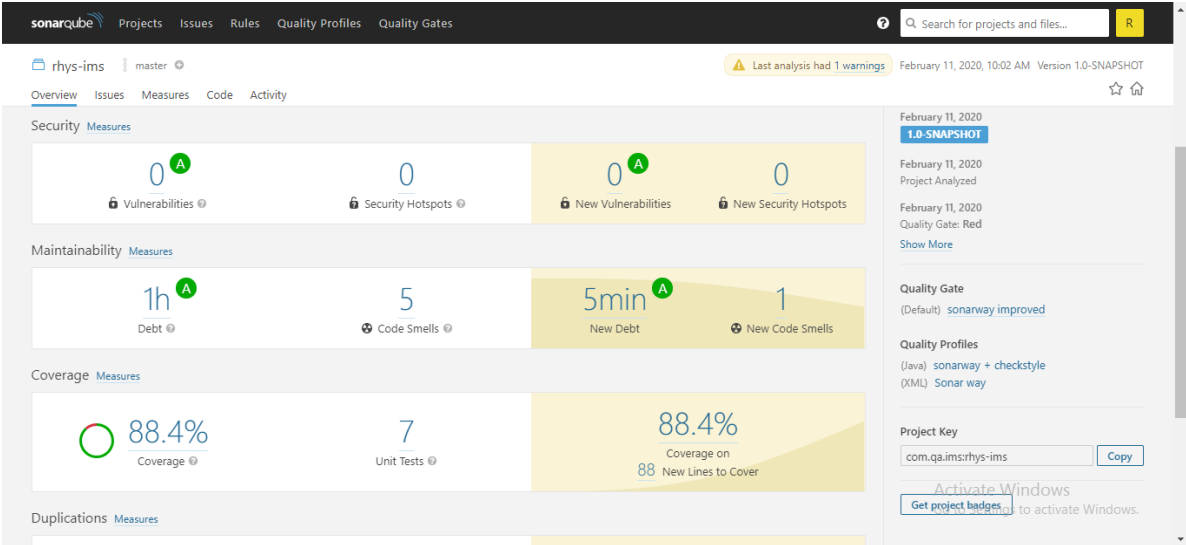
In order to see what code smells are currently flagged on your project follow these steps:

1. Login to SonarQube.
2. Navigate to the projects window, a button for it can be found in the top navigation bar, it should look something like this. Find your project and click on the project name, in this example it is "rhys-ims".



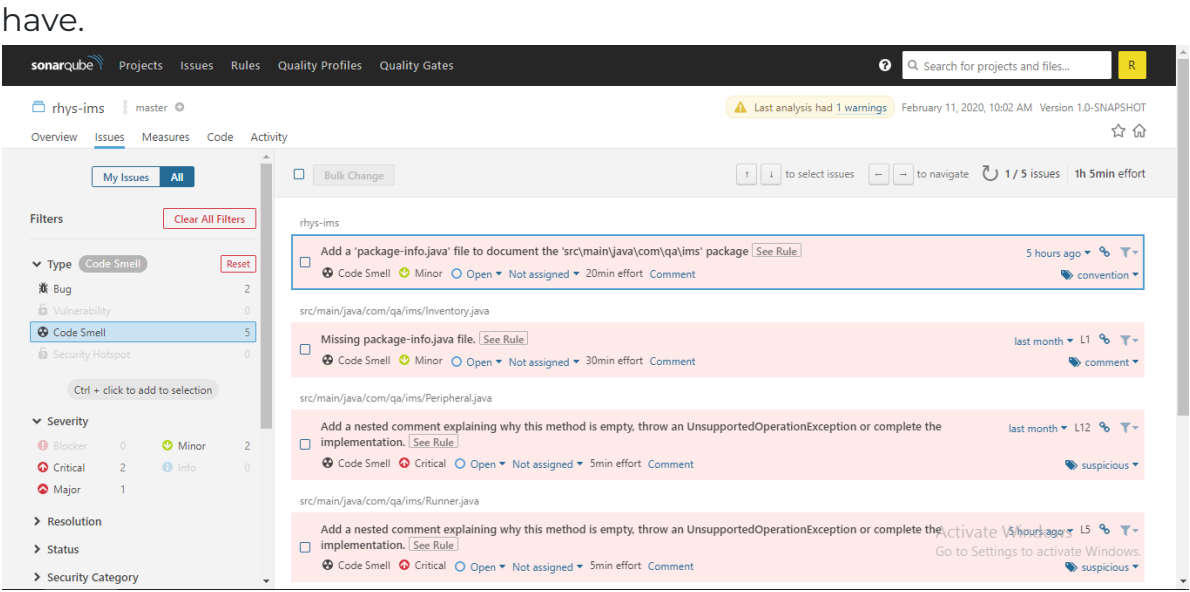
3. Once you land on the project's dashboard, scroll down to the "Maintainability" section.

This section will tell you how many "Code Smells" you have, click on the number above "Code Smells" to see what they are.



4. Once you click on the number above the "Code Smells" text you should land on the following screen, which shows you what code smells you

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5. At the bottom of the red box for each code smell, you can see what severity the code smell is, whether it has been resolved or not, you can assign it to someone to fix (this could be yourself), and you can add a comment to the code smell.
6. If you want to take a closer look at the offending code, you can click the red box and it will take you to the offending source code.

The issues that get flagged will vary depending on the quality profile being used as different quality profiles can have different rules applied to them. SonarQube can also run analysis on different languages, it can recognise the language that it is trying to analyse and then apply the correct quality profile. Therefore you may get a code smell issue on one project but not on another for similar code.

Exercises

There are no exercises for this module.