

Report on performing static analysis using SonarQube on LMS

How to run the tool and perform the analysis:

- 1) Start the Docker Desktop app
- 2) Open the project (LMS) directory in the command prompt
- 3) Run the following command to pull SonarQube from Docker:

Docker pull sonarqube:latest

- 4) Once 3rd is completed in the same path run this command to run the SonarQube on port 9000

Docker container run -d --name sonarqube -p 9000:9000 sonarqube:latest

- 5) Open localhost:9000 in the browser
- 6) Login using common credentials, and then update the password
- 7) Once Login is successful, setup the LMS project 'Manually'
- 8) Generate the Token, and browse the local project directory
- 9) Once this is done, the tool itself will perform the static analysis on given LMS project.
- 10) The analysis provides us information such as no of bugs with information of respective file in overall code, vulnerabilities, debt, code smells , and security hotspots.
- 11) The result of our analysis can be observed from the screenshots attached within this document.

sonarqube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministration

?

Search for projects

project space

0/0

^vX

LMS☆master

March 11, 2022, 4:26 PMVersion not provided

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project SettingsProject Information

To benefit from more of SonarQube's features, set up analysis in your favorite CI.

X

QUALITY GATE STATUS

MEASURES

Passed

All conditions passed.

New CodeOverall Code

16 BugsReliability C

0 VulnerabilitiesSecurity A

2 Security Hotspots0.0% ReviewedSecurity Review E

1h 35min Debt30 Code SmellsMaintainability A

0.0% Coverage on 792 Lines to coverUnit Tests-10.0% Duplications on 3k Lines22 Duplicated Blocks

ACTIVITY

Issues

March 11, 2022, 4:26 PMnot provided

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OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project SettingsProject Information

My IssuesAll

1 / 16 issues1h 12min effort

Filters

Clear All Filters

TypeBUG16

Vulnerability0

Code Smell30

Ctrl + click to add to selection

Severity

Blocker0Minor8

Critical0Info0

Major8

Scope

Resolution

Status

Security Category

Creation Date

Language

Rule

Tag

Directory

File

Assignee

Author

Bulk Change

LightLib.Service/Checkout/CheckoutService.cs

'checkout' is null on at least one execution path. Why is this an issue?

20 days agoL88

BugMajorOpenNot assigned10min effortComment

LightLib.Service/Patrons/PatronService.cs

'patron' is null on at least one execution path. Why is this an issue?

20 days agoL89

BugMajorOpenNot assigned10min effortComment

LightLib.Web/Views/Branch/Detail.cshtml

Add "th" headers to this "table". Why is this an issue?

20 days agoL42

BugMajorOpenNot assigned2min effortComment

Add a description to this table. Why is this an issue?

20 days agoL42

BugMinorOpenNot assigned5min effortComment

Add "th" headers to this "table". Why is this an issue?

20 days agoL59

BugMajorOpenNot assigned2min effortComment

Add a description to this table. Why is this an issue?

20 days agoL59

BugMinorOpenNot assigned5min effortComment

Add "th" headers to this "table". Why is this an issue?

20 days agoL86

BugMajorOpenNot assigned2min effortComment

Add a description to this table. Why is this an issue?

20 days agoL86

BugMinorOpenNot assigned5min effortComment

LightLib.Web/Views/Catalog/Index.cshtml

Add a description to this table. Why is this an issue?

20 days agoL39

BugMinorOpenNot assigned5min effortComment

LightLib.Web/Views/Patron/Detail.cshtml

Add "th" headers to this "table". Why is this an issue?

20 days agoL15

