

SONAR

SonarQube

SonarQube is an open source tool suite to measure and analyse the quality of source code.

It is written in Java but is able to analyse code in about 20 different programming languages.

Code analysis may be started manually by executing a so-called sonar runner

but SonarQube's full potential is especially revealed when used in combination with continuous integration such as a Jenkins server.

The results of an analysis are shown in a fancy web frontend with 'green' and 'red lights', nice charts, issue lists and an ability to drill down from project level to a single class.

Dashboard

Hotspots

Issues

Time Machine

TOOLS

Components

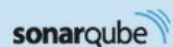
Issues Drilldown

Design

Libraries

Clouds

Compare



Version 1.0 - Apr 19 2014 15:45

Time changes...

Configure widgets

Manage dashboards

Unit Tests Coverage

56.6%

56.6% line coverage

Unit test success

0 tests

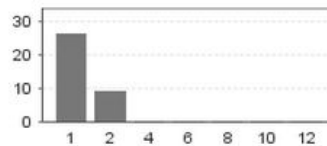
Complexity

1.3 /function

3.1 /class

1.9 /file

Total: 46

☒ Functions ☐ Files

Duplications

0.0%

0 lines

0 blocks

0 files

Lines of code

527 ↗

751 lines ↗

138 statements

Files

24

12 directories

15 classes

35 functions

8 accessors

Issues

99 ↗

Blocker	1	
Critical	29	
Major	42	
Minor	27 ↗	
Info	0	

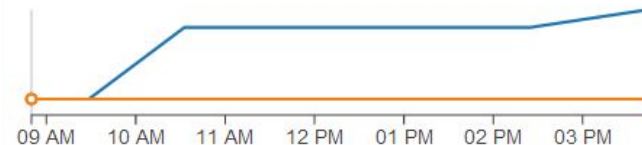
Technical Debt

0.2 days

Apr 19, 2014

● Lines of code: 522

● Coverage: 56.6%



Key: org.treetek.sonar:navigation.example

Profile: Sonar_way (version 1)

Events

All

Apr 19 2014

Version

1.0

Install on windows

1) Sonarqube 5.6.6

<https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-5.6.6.zip>

2) set the classpath SONAR_HOME

3) cd C:\ Program Files\sonarqube-5.6.6\bin\windows-x86-64

installMTservice.bat

startMTservice.bat

4) http://localhost:9000

Login usn: admin pwd: admin

Integration of sonar two ways

- 1) Raw way with maven
- 2) With jenkins

Sonar with maven

```
<settings>
```

```
<profiles>
```

```
  <profile>
```

```
    <id>sonar</id>
```

```
    <activation>
```

```
      <activationByDfault>true</activationByDfault>
```

```
    </activation>
```

```
  <properties>
```

```
    <!-- SERVER ON A REMOTE HOST -->
```

run sonar from maven

`mvn compile`

`mvn package`

`mvn sonar:sonar`

Sonar Integrate with jenkins

- 1) `http://repo1.maven.org/maven2/org/codehaus/sonar/runner/sonar-runner-dist/2.4/sonar-runner-dist-2.4.zip`
- 2) set the classpath `SONER_RUNNER_HOME`
- 3) Install SonarQube plugin
- 4) Set the path "Sonarqube server" configure system
- 5) Set the path "Sonarqube runner" global tool configuration

Configure the JOB for Sonar

Required metadata

sonar.login=admin

sonar.password=admin

sonar.projectKey=gameoflifeforsonar

sonar.projectName=gameoflifeforsonar

sonar.projectVersion=1.0

Path

sonar.sources=.

sonarqube build breaker

- 1) sonarqube build breaker plugin download

<http://update.sonarsource.org/plugins/buildbreaker-confluence.html>.

- 2) C:\Program Files\sonarqube-5.6.6\extensions\plugins.
- 3) From the Services window, look for a service named SonarQube.
Right-click on it and select Restart.
- 4) Creating quality gates

