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Jacoco for unit test coverage with SonarQube tutorial

Posted on February 28, 2016 by Arulkumaran Kumaraswamipillai

This tutorial extends SonarQube with Maven Tutorial – Code Quality for Java developers to use **Jacoco** for tracking unit test coverage. **Jacoco** is the default code coverage tool that gets shipped with SonarQube. SonarQube can also be configured to use Cobertura as the code coverage tool.

This assumes that **Java 8** and **Maven 3** are set up. The SonarQube is setup and running on port 9000.

Step 1: The pom.xml file needs to include the following two lines under properties tag.

1 2 <sonar.core.codeCoveragePlugin>jacoco</sonar.core 3 <sonar.dynamicAnalysis>reuseReports</sonar.dynami 4

The revised **pom.xml** with **sonar** & **jacoco** will look like:

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 - □ Code Coverage (2)
 - Jacoco for unit te
 - : :
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```
3
       xsi:schemaLocation="http://maven.apache.org/
4
       <modelVersion>4.0.0</modelVersion>
5
6
       <groupId>com.homeassigment
7
       <artifactId>homeassign-1-test</artifactId>
8
       <version>1.0-SNAPSHOT</version>
9
       <packaging>jar</packaging>
10
11
       <name>homeassign-1-test</name>
12
       <url>http://maven.apache.org</url>
13
14
       cproperties>
15
           <sonar.host.url>http://localhost:9000</s
<logback.version>1.0.0</logback.version>
16
17
18
           <slf4j.version>1.6.4</slf4j.version>
19
20
           <sonar.core.codeCoveragePlugin>jacoco</s</pre>
21
           <sonar.dynamicAnalysis>reuseReports</son</pre>
22
       </properties>
23
24
       <build>
25
           <pluginManagement>
26
                <plugins>
27
                    <plan="font-size: 150%;">plugin>
28
                        <groupId>org.codehaus.sonar<</pre>
29
                        <artifactId>sonar-maven-plua
30
                        <version>5.3</version>
31
                    </plugin>
32
                </plugins>
33
           </pluginManagement>
34
       </build>
35
36
       <dependencies>
37
           <dependency>
38
                <groupId>junit
                <artifactId>junit</artifactId>
39
40
                <version>4.11</version>
41
                <scope>test</scope>
42
           </dependency>
43
44
45
           <!-- Logging -->
46
47
           <dependency>
48
                <groupId>ch.qos.logback</groupId>
49
                <artifactId>logback-classic</artifac
50
                <version>${logback.version}</version</pre>
51
           </dependency>
52
           <dependency>
53
                <groupId>org.slf4j</groupId>
54
                <artifactId>slf4j-api</artifactId>
55
                <version>${slf4j.version}</version>
56
           </dependency>
57
           <dependency>
58
                <groupId>org.slf4j</groupId>
59
                <artifactId>log4j-over-slf4j</artifa</pre>
60
                <version>${slf4j.version}</version>
61
           </dependency>
62
           <dependency>
63
                <groupId>org.slf4j</groupId>
64
                <artifactId>jcl-over-slf4j</artifact</pre>
                <version>${slf4j.version}
65
66
           </dependency>
```

16 Technical Key Areas

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- ⊞ Best Practice (6)
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- ⊞ Performance (13)
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```
67
68 </dependencies>
69 </project>
70
71
```

Step 2: On the command-line execute the following **mvn** command

```
1
2 :homeassign-1-test arulk$ mvn clean org.jacoco:ja
```

To get coverage per test, use the profile "coverage-per-test"

```
1
2 mvn clean org.jacoco:jacoco-maven-plugin:prepare-
```

Step 3: On the command-line execute the following **mvn** command

```
1
2 :homeassign-<mark>1</mark>-test arulk$ mvn clean test sonar:s
```

Step 4: Go to sonar web at http://localhost:9000, and click on the "coverage" tab to get the metrics on the code coverage as shown below.

```
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```

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- Designing your classe
- Passing the unit tests
- What is wrong with th
- Writing Code Home A

How good are your?

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You can drill into code level to see where the coverage needs to be enhanced.

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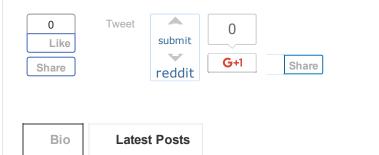
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