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Maven and Cobertura Tutorial

Posted on October 8, 2015 by Arulkumaran Kumaraswamipillai

Cobertura is a free code coverage tool, which calculates the percentage of Java code accessed by unit tests.

Step 1: The pom.xml file with the relevant reporting plugins. The properties also shown to set the coverage percentage and to skip code coverage or not.

```
1   <project xmlns="http://maven.apache.org/POM/4.0.0
2       xsi:schemaLocation="http://maven.apache.org/
3       <modelVersion>4.0.0</modelVersion>
4
5       <groupId>com.mytutorial</groupId>
6       <artifactId>simpleSpringRestWeb</artifactId>
7       <version>1.0-SNAPSHOT</version>
8       <packaging>war</packaging>
9
10      <name>simpleSpringRestWeb</name>
11      <url>http://maven.apache.org</url>
12
13      <properties>
14          //....
15          <javac.src.version>1.7</javac.src.version
16          <javac.target.version>1.7</javac.target.
17          <test.coverage.rate>100</test.coverage.r
18          <cobertura.skip>false</cobertura.skip>
19          <cobertura.skip>false</cobertura.skip>
20      </properties>
21
```

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```xml
22    <dependencies>
23        <dependency>
24            <groupId>net.sourceforge.cobertura</gro
25            <artifactId>cobertura</artifactId>
26            <version>${cobertura.version}</version
27        </dependency>
28    </dependencies>
29
30     <reporting>
31         <plugins>
32             <plugin>
33                 <groupId>org.apache.maven.plugin
34                 <artifactId>maven-project-info-r
35                 <version>2.7</version>
36                 <configuration>
37                     <dependencyLocationsEnabled>
38                 </configuration>
39             </plugin>
40
41             <plugin>
42                 <groupId>org.codehaus.mojo</grou
43                 <artifactId>cobertura-maven-plug
44                 <version>2.7</version>
45                 <configuration>
46                     <formats>
47                         <format>xml</format>
48                         <format>html</format>
49                     </formats>
50                 </configuration>
51             </plugin>
52         </plugins>
53     </reporting>
54
55 </project>
```

Step 2: Run the maven command to create the code coverage report under "${project}/target/site".
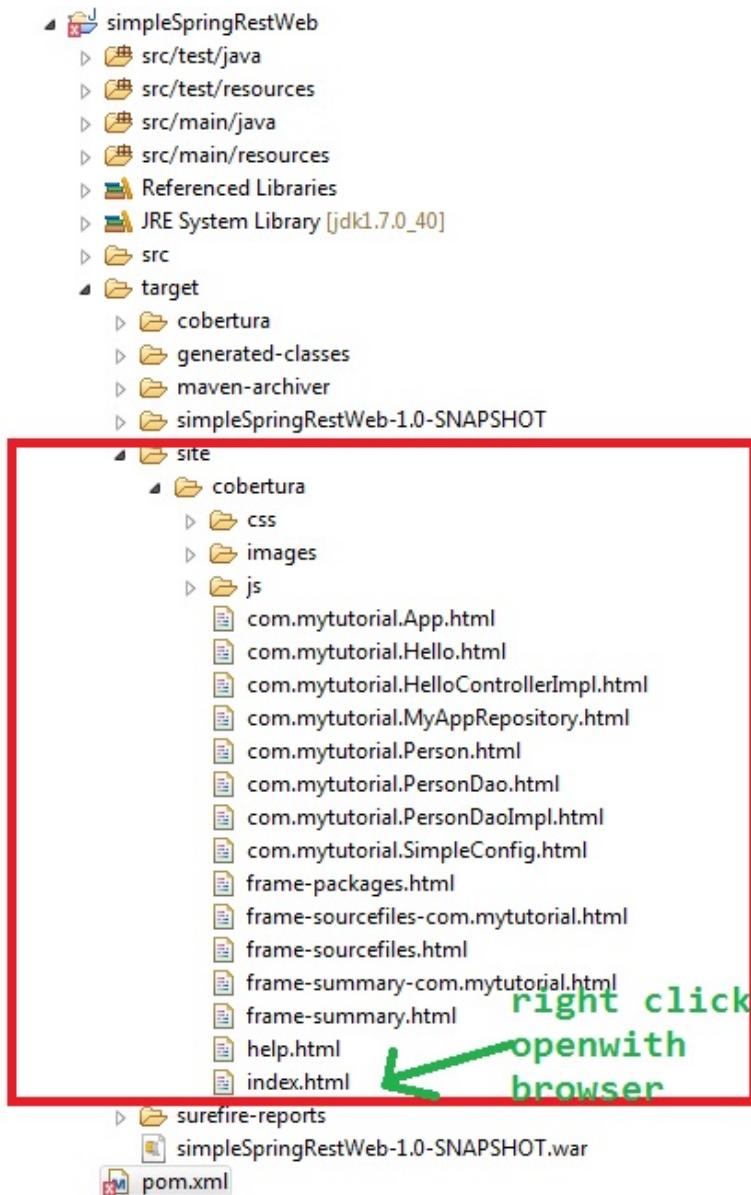
```
1  mvn cobertura:cobertura
```

Step 3: You can open the report from within eclipse under "${project}/target/site". Righ mouse click on index.html and then open with "Web browser".

maven and corbetura

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You can see your code coverage in terms of unit tests. This will help you increase your unit test coverage.

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Corbetura code coverage report

Step 4: Creating a maven project site with

```
1  mvn site
```

This generates the site files under "${project}/target/site".

mvn site report with Cobertura report link
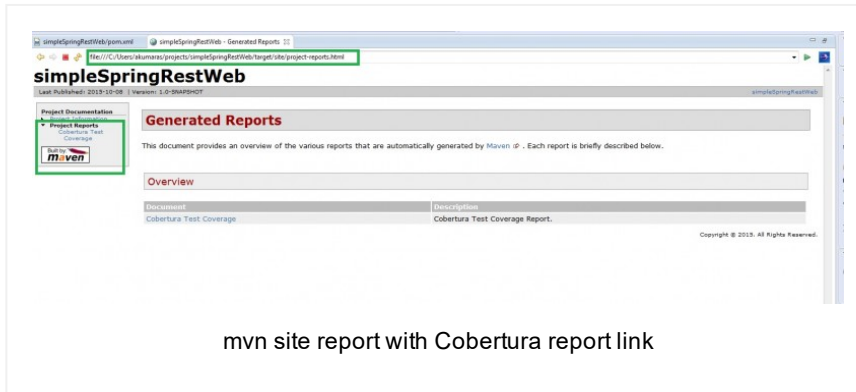
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