

Build and Release Management LAB File

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LAB-5

DATE : 25th FEB 2021

LAB 5:

Aim: Generating the documentation of the project using maven “site” goal and creating the html files.

Procedure:

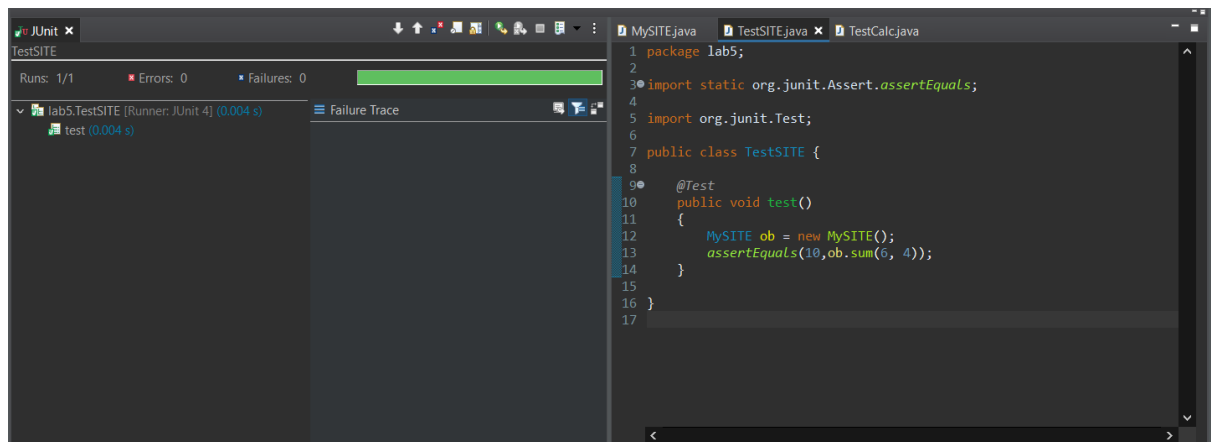
1. Create a simple maven project.

```
MySITE.java x TestSITE.java TestCalc.java
1 package lab5;
2
3 public class MySITE {
4
5     public static void main(String[] args) {
6
7         System.out.println("LAB 5 regarding MVN site.");
8
9     }
10
11     int sum(int a, int b)
12     {
13         return a+b;
14     }
15
16 }
17 |
```

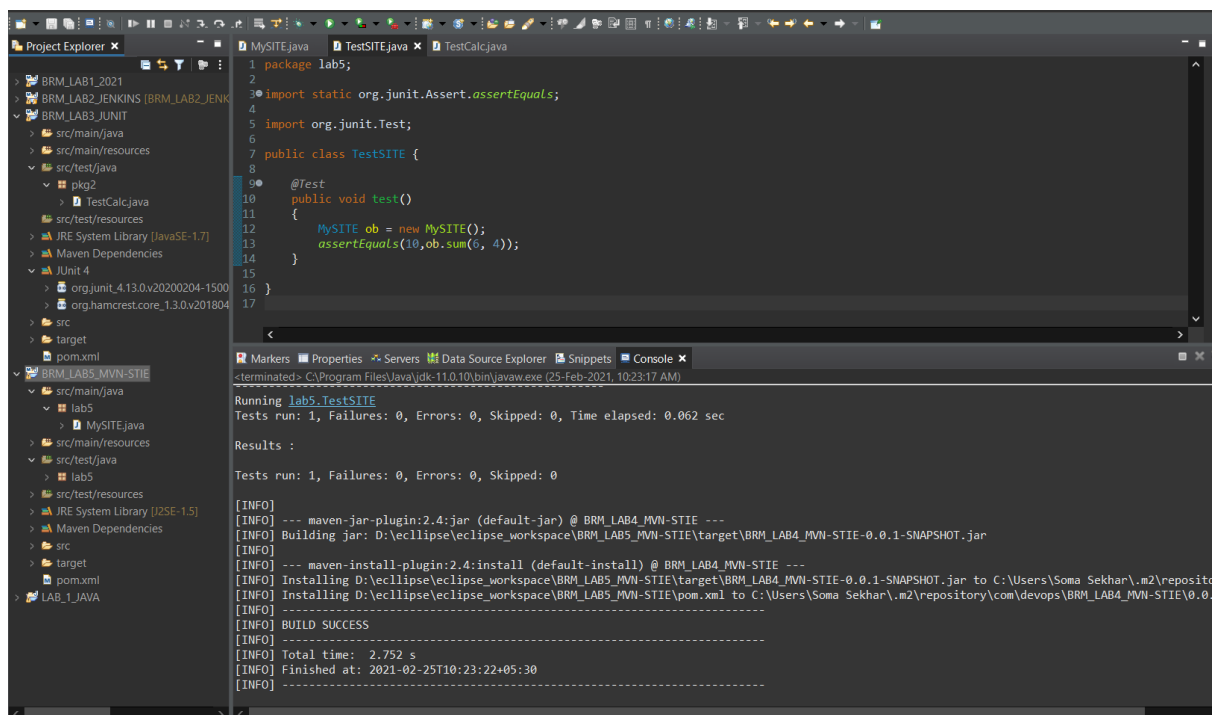
2. Add the Junit dependencies in the POM.XML file

```
MySITE.java BRM_LAB5_MVN-STIE/pom.xml x
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLoc
2   <modelVersion>4.0.0</modelVersion>
3   <groupId>com.devops</groupId>
4   <artifactId>BRM_LAB4_MVN-STIE</artifactId>
5   <version>0.0.1-SNAPSHOT</version>
6   <name>BRM_LAB4_MVN-STIE</name>
7   <properties>
8     <maven.compiler.source>1.8</maven.compiler.source>
9     <maven.compiler.target>1.8</maven.compiler.target>
10 </properties>
11 <build>
12   <pluginManagement>
13     <plugins>
14       <plugin>
15         <groupId>org.apache.maven.plugins</groupId>
16         <artifactId>maven-site-plugin</artifactId>
17         <version>3.7.1</version>
18       </plugin>
19     </plugins>
20   </pluginManagement>
21 </build>
22 <dependencies>
23   <dependency>
24     <groupId>junit</groupId>
25     <artifactId>junit</artifactId>
26     <version>4.13</version>
27     <scope>test</scope>
28   </dependency>
29 </dependencies>
30
31 </project>|
```

3. Writing a test JUnit test and Running automated tests.




4. Running "Install" goal in maven



is PC > DATA (D:) > eclipse > eclipse_workspace > BRM_LAB5_MVN-STIE > target

Name	Date modified	Type	Size
classes	25-02-2021 10:03	File folder	
generated-sources	25-02-2021 10:23	File folder	
generated-test-sources	25-02-2021 10:23	File folder	
maven-archiver	25-02-2021 10:23	File folder	
maven-status	25-02-2021 10:23	File folder	
surefire-reports	25-02-2021 10:23	File folder	
test-classes	25-02-2021 10:09	File folder	
BRM_LAB4_MVN-STIE-0.0.1-SNAPSHOT.jar	25-02-2021 10:23	Executable Jar File	4 KB

5. Running “site ” goal on Maven to automate the documentation of the project, with html files.

 Edit Configuration

Edit configuration and launch.

Name: BRM_LAB5_MVN-STIE

Main JRE Refresh Source Environment Common

Base directory:
 \${project_loc:BRM_LAB5_MVN-STIE}
 Workspace... File System... Variables...

Goals: site

Profiles:

User settings:
 Workspace... File System... Variables...

☐ Offline
 ☐ Update Snapshots
 ☐ Debug Output
 ☐ Skip Tests
 ☐ Non-recursive
 ☐ Resolve Workspace artifacts

1 Threads

Parameter Name	Value	Add...
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Revert Apply

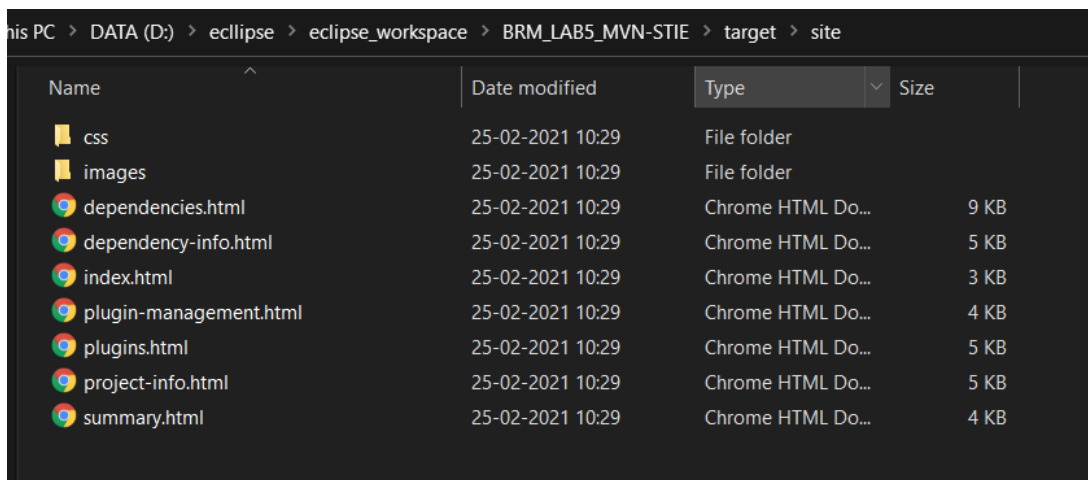
? Run Close

The screenshot shows an IDE with a Java file named `TestSITE.java` and a Maven console window. The Java file contains a test method `test()` that creates a `MySITE` object and asserts that the sum of 6 and 4 is 10. The console window shows the output of a Maven build, including downloading various plugins and generating reports. The build is successful.

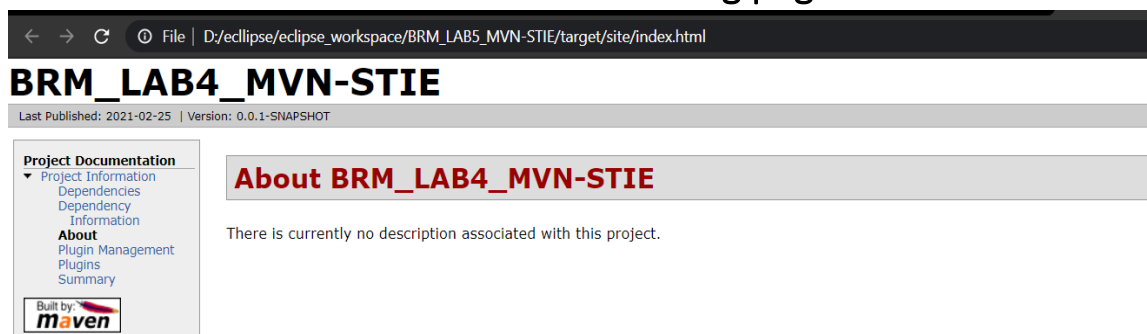
```
1 package lab5;
2
3 import static org.junit.Assert.assertEquals;
4
5 import org.junit.Test;
6
7 public class TestSITE {
8
9     @Test
10    public void test()
11    {
12        MySITE ob = new MySITE();
13        assertEquals(10, ob.sum(6, 4));
14    }
15 }
16
17
```

```
<terminated> BRM_LAB5_MVN-STIE [Maven Build] C:\Program Files\Java\jdk-11.0.10\bin\javaw.exe (25-Feb-2021, 10:26:56 AM - 10:29:23 AM)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/9/maven-parent-9.pom (33 kB at 85 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-assembly-plugin/2.2-beta-5/maven-assembly-plugin-2.2-beta-5.pom (15 kB at 43 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/16/maven-plugins-16.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/16/maven-plugins-16.pom (13 kB at 37 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-dependency-plugin/2.8/maven-dependency-plugin-2.8.pom (11 kB at 31 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-release-plugin/2.5.3/maven-release-plugin-2.5.3.pom (11 kB at 33 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.5.3/maven-release-2.5.3.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-release/2.5.3/maven-release-2.5.3.pom (5.0 kB at 15 kB/s)
[INFO] Generating "Plugins" report --- maven-project-info-reports-plugin:3.1.1:plugins
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-deploy-plugin/2.7/maven-deploy-plugin-2.7.pom (5.6 kB at 17 kB/s)
[INFO] Generating "Summary" report --- maven-project-info-reports-plugin:3.1.1:summary
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 02:23 min
[INFO] Finished at: 2021-02-25T10:29:22+05:30
[INFO] -----
```

6. Now we will see that the folder “site” has been created in the target folder and inside it, we can see our html files for the documentation.



7. The “index.html” is the main home landing page



BRM_LAB4_MVN-STIE

Last Published: 2021-02-25 | Version: 0.0.1-SNAPSHOT

BRM_LAB4_MVN-STIE

Project Documentation



- Project Information
- Dependencies**
- Dependency Information
- About
- Plugin Management
- Plugins
- Summary

Built by 

Project Dependencies

test

The following is a list of test dependencies for this project. These dependencies are only required to compile and run unit tests for the application:

GroupId	ArtifactId	Version	Type	Licenses
junit	junit 	4.13	jar	Eclipse Public License 1.0 

Project Transitive Dependencies

The following is a list of transitive dependencies for this project. Transitive dependencies are the dependencies of the project dependencies.



test

The following is a list of test dependencies for this project. These dependencies are only required to compile and run unit tests for the application:

GroupId	ArtifactId	Version	Type	Licenses
org.hamcrest	hamcrest-core 	1.3	jar	New BSD License 

Project Dependency Graph

Dependency Tree

- com.devops:BRM_LAB4_MVN-STIE:jar:0.0.1-SNAPSHOT 
 - junit:junit:jar:4.13 (test) 

RESULT:

Thus, successfully, automated the documentation of the project using maven “site” goal and created the html files.