

LAB -5

BUILD RELEASE AND MANAGEMENT

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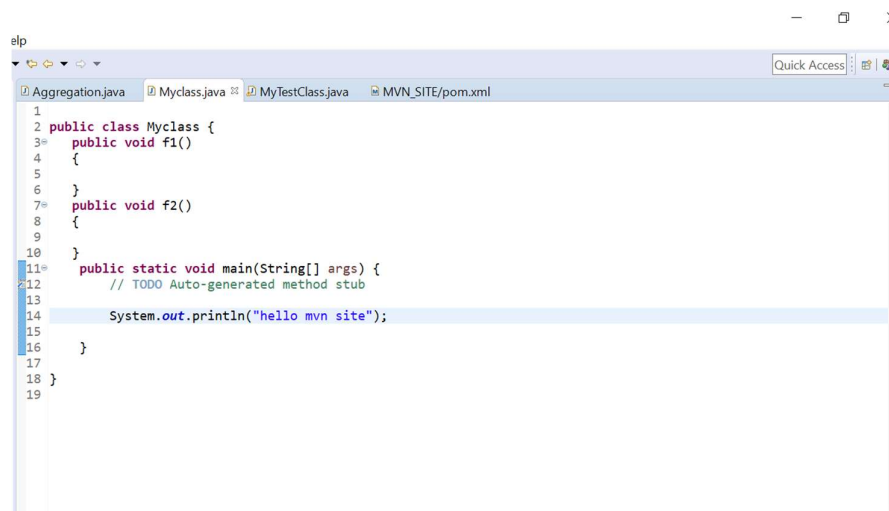
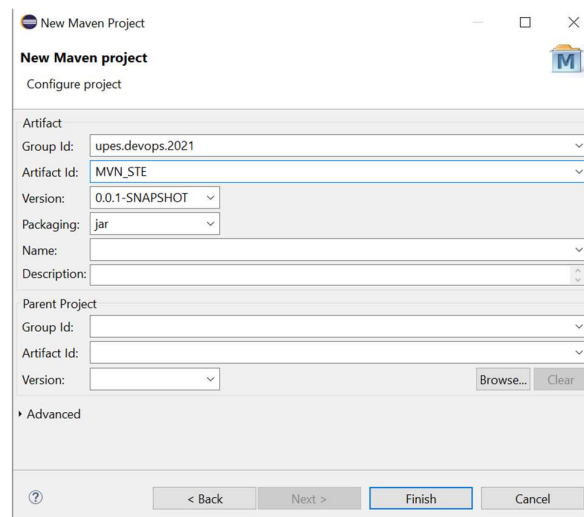
Sap ID: 500075887

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Batch: DevOps 4th sem

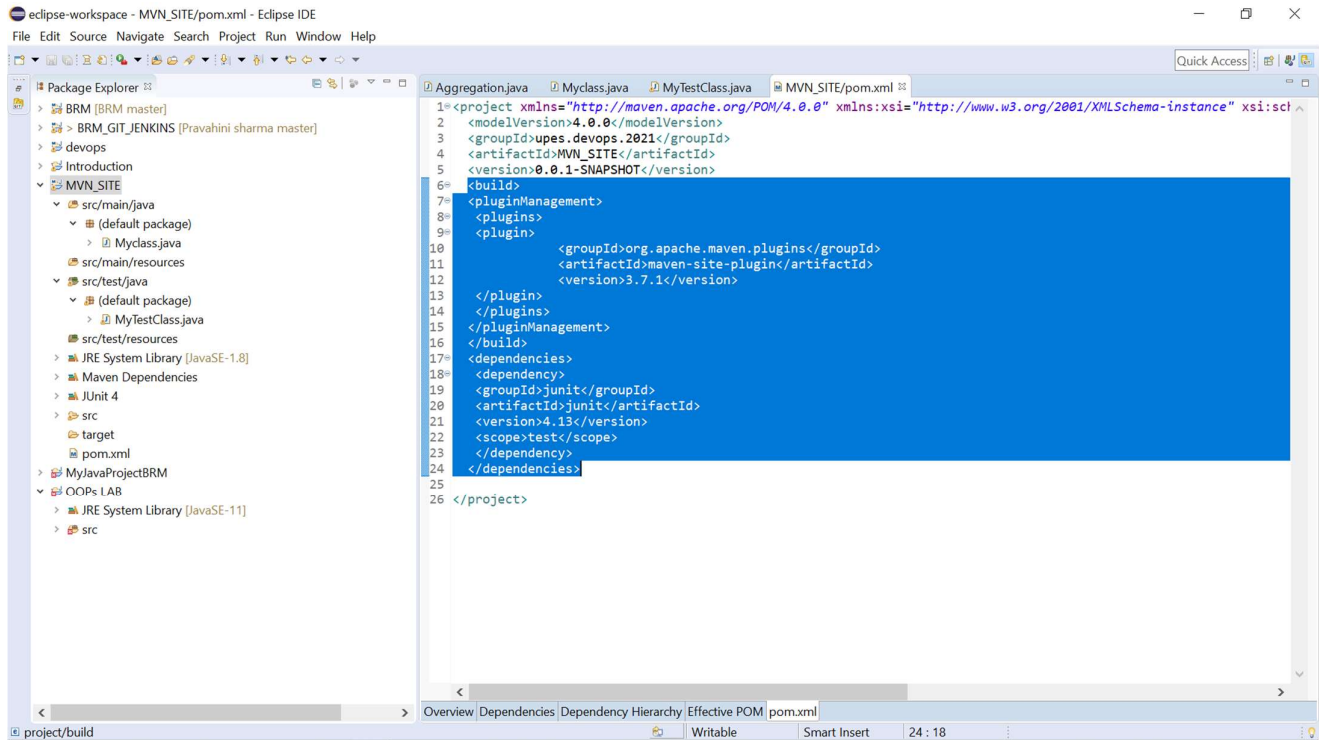
Aim: Create a Maven with a java class & a junit test case and run the project with goal site to generate a web documentation of the project.

Step 1: Create a Maven Project and a Java class in it and add some java code in the class.

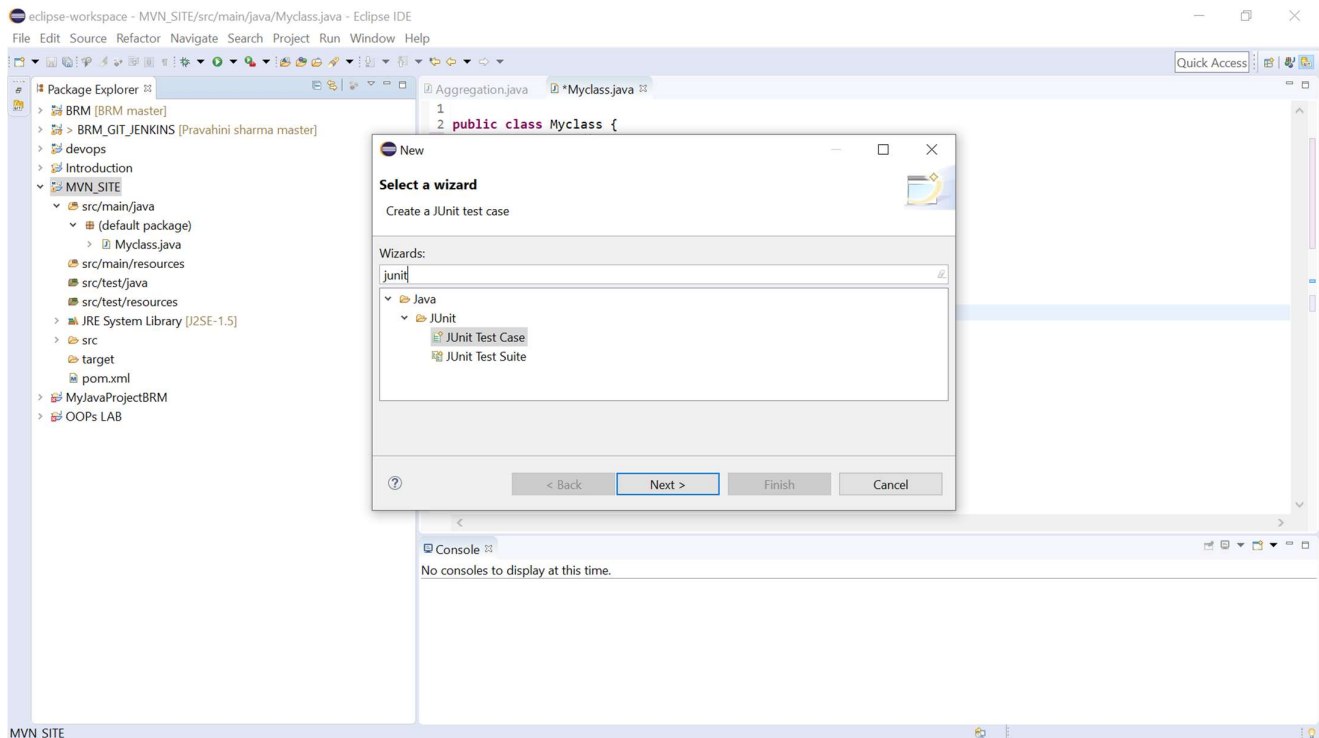


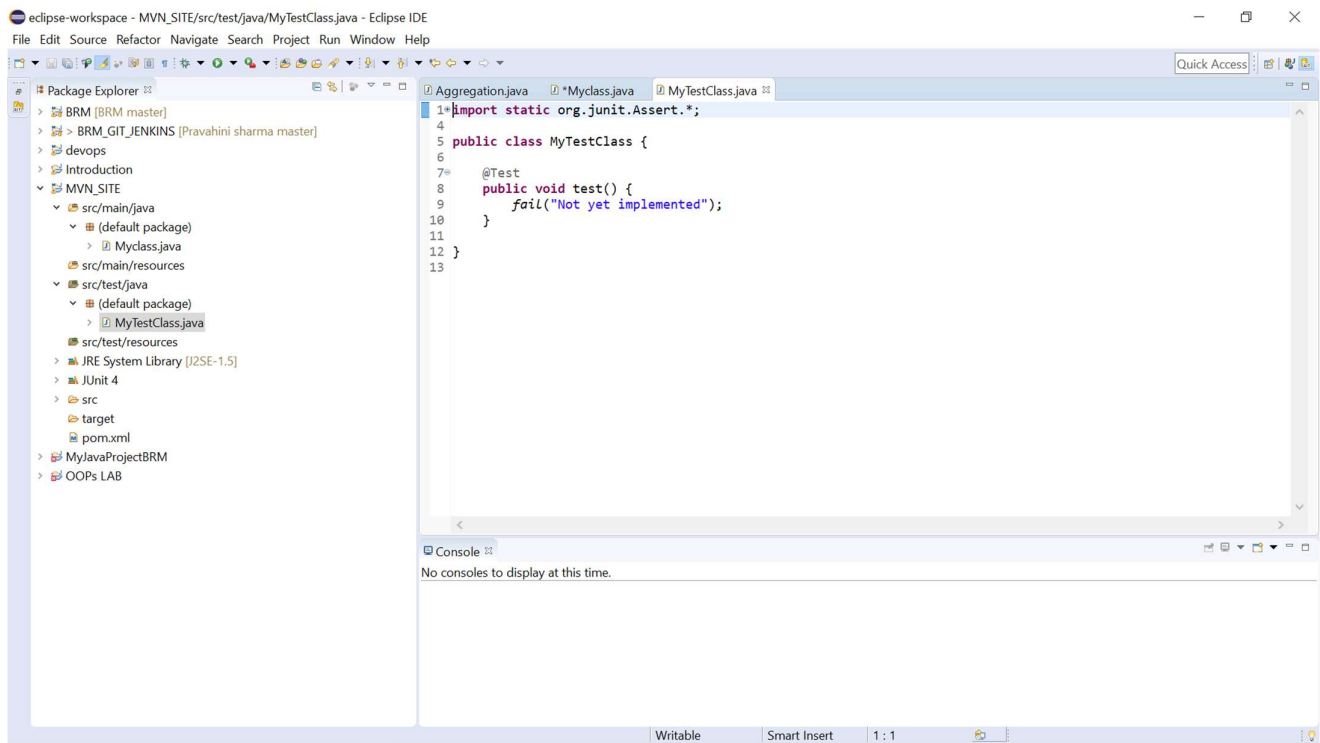
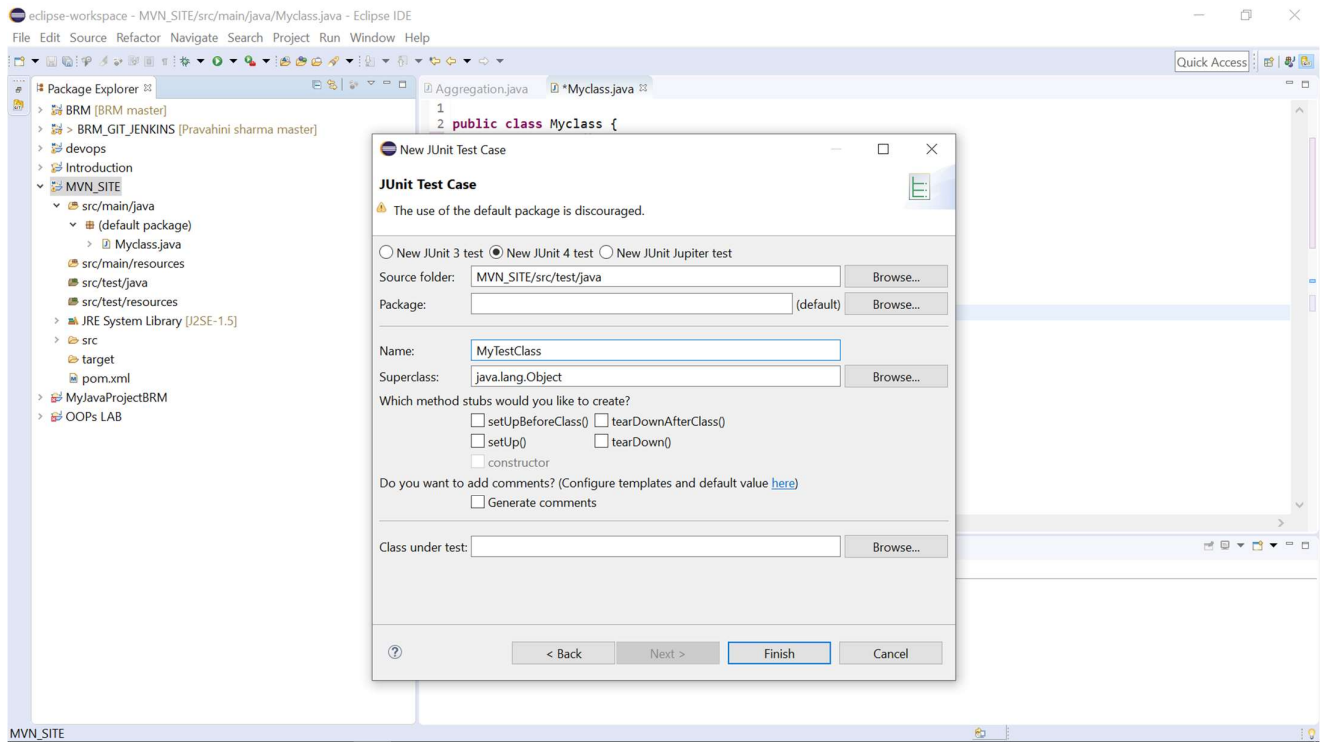
```
1 public class Myclass {
2     public void f1()
3     {
4     }
5 }
6
7 public void f2()
8 {
9 }
10
11 public static void main(String[] args) {
12     // TODO Auto-generated method stub
13     System.out.println("hello mvn site");
14 }
15
16 }
17
18 }
19 }
```

Step 2: Now, add dependencies and plugins in the “pom.xml” file in the project folder.

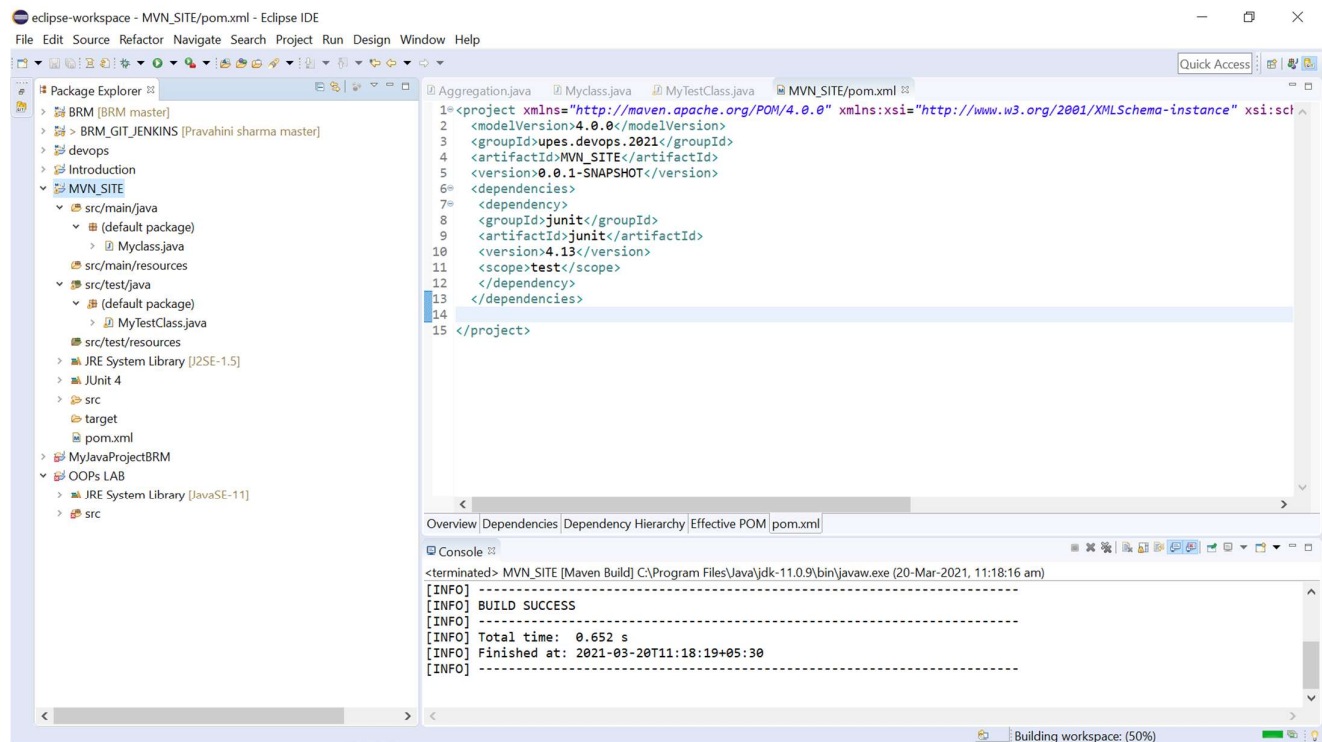
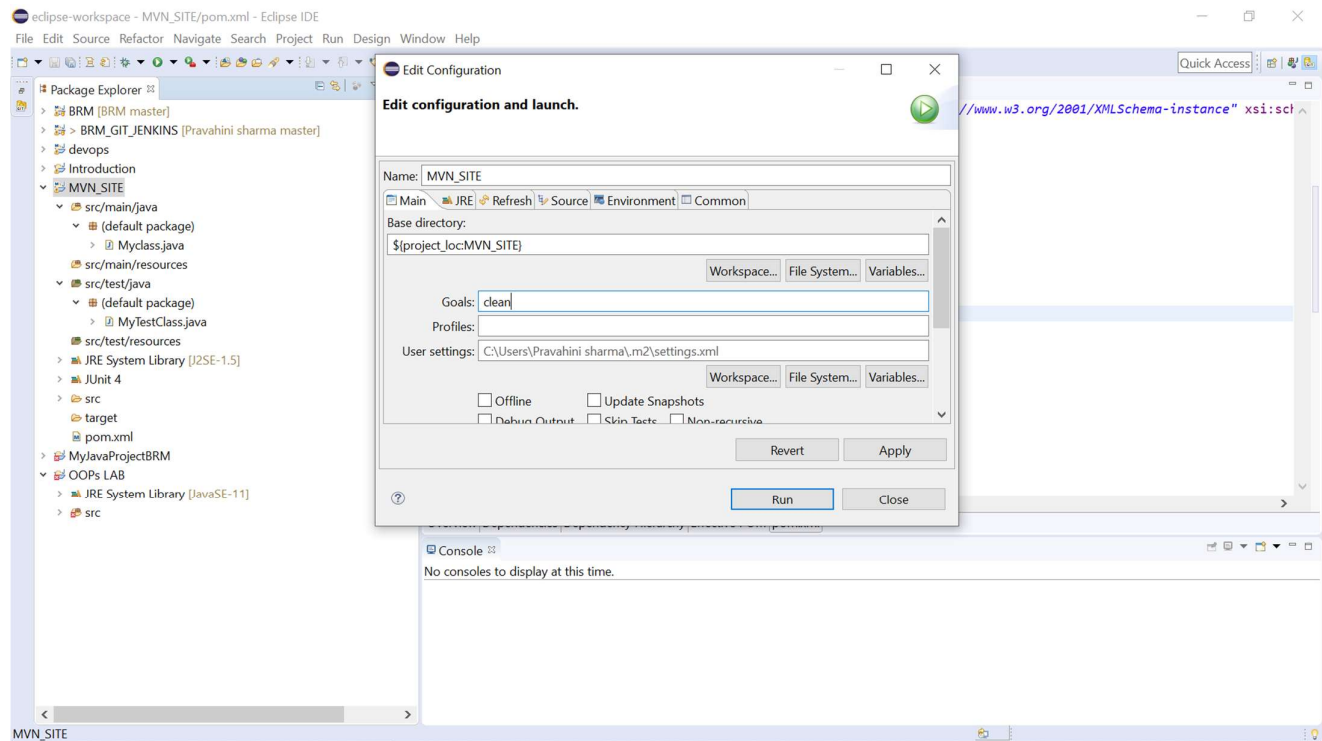


Step 3: Now create a Junit Test Case and add some Test cases in the file.





Step 4: Now Run the project with the “Goal “ as “clean”



Step 5: Now Run the project with the “Goal “ as “install”

The screenshot shows the Eclipse IDE interface. On the left, the Package Explorer displays the project structure for 'BRM [BRM master]', including 'devops', 'Introduction', and 'MVN_SITE'. The 'MVN_SITE' folder is expanded, showing 'src/main/java', 'src/main/resources', 'src/test/java', and 'src/test/resources'. The 'src/main/java' folder contains 'Myclass.java'. The 'src/main/resources' folder contains 'pom.xml'. The 'src/test/java' folder contains 'MyTestClass.java'. The 'src/test/resources' folder contains 'JRE System Library [J2SE-1.5]', 'Maven Dependencies', 'JUnit 4', and 'src'. The 'target' folder contains 'pom.xml'. The 'MyJavaProjectBRM' folder contains 'MyTestClass.java'. The 'OOPs LAB' folder contains 'JRE System Library [JavaSE-11]' and 'src'. The 'Edit Configuration and Launch' dialog is open, showing the 'Name' field as 'MVN_SITE (1)'. The 'Base directory' field is set to '\$[project_loc:MVN_SITE]'. The 'Goals' field is set to 'install'. The 'Profiles' field is empty. The 'User settings' field is set to 'C:\Users\Pravahini sharma\m2\settings.xml'. The 'Run' button is highlighted. The console output shows the following:

```
<terminated> MVN_SITE [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (20-Mar-2021, 11:18:16 am)
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.652 s
[INFO] Finished at: 2021-03-20T11:18:19+05:30
[INFO] -----
```

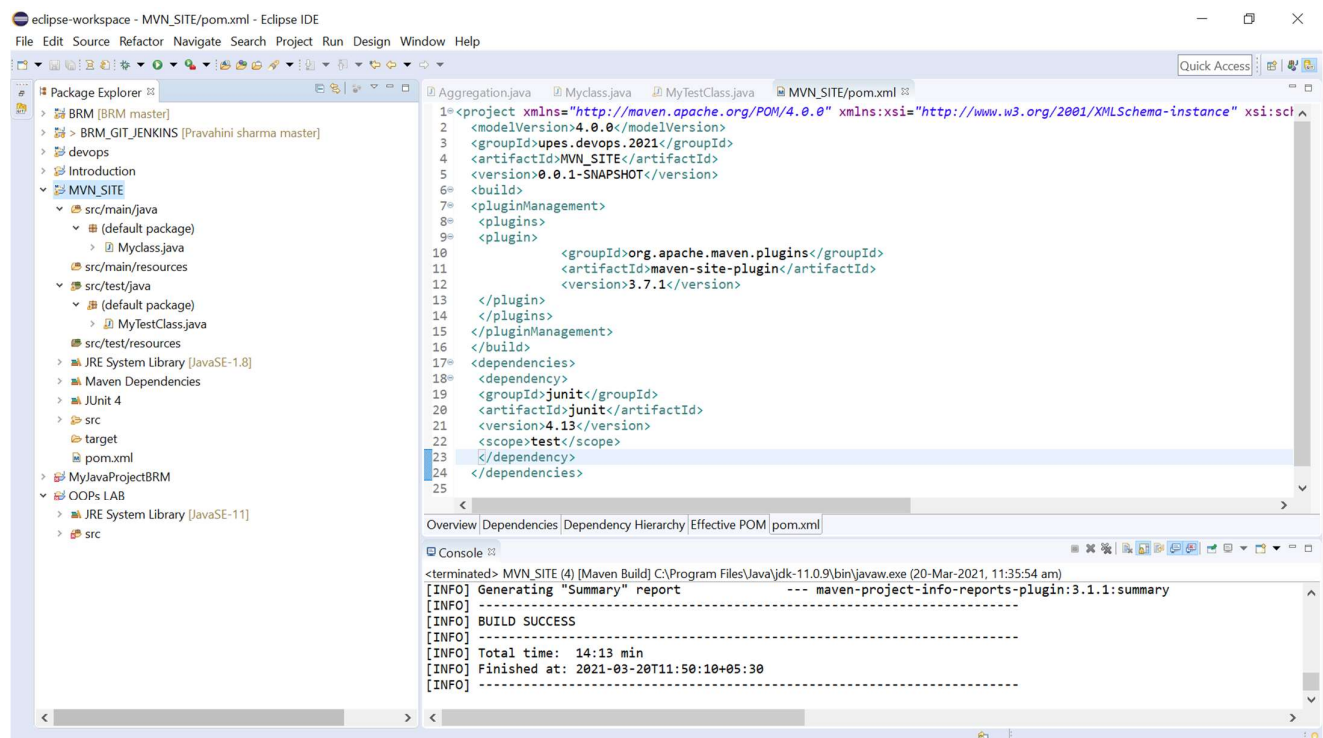
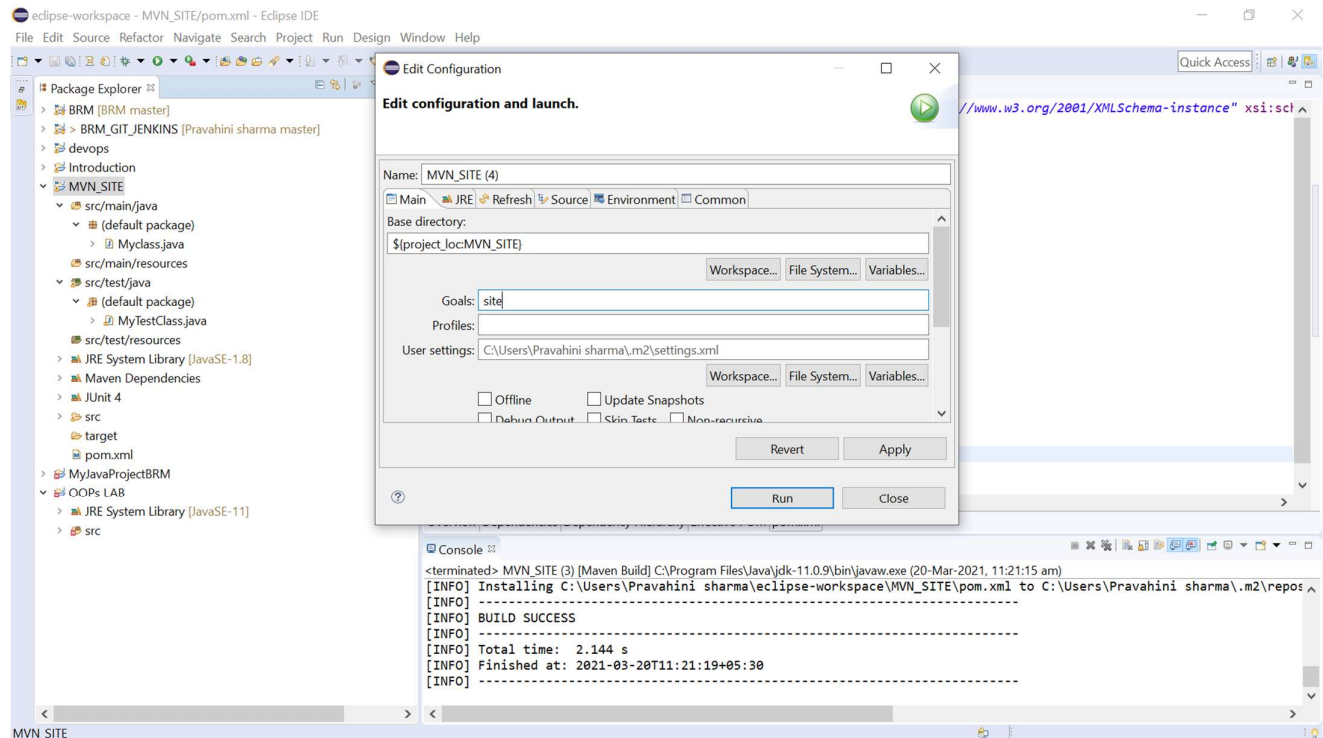
The screenshot shows the Eclipse IDE interface. The Package Explorer on the left is the same as in the previous screenshot. The 'pom.xml' file is open in the editor, showing the following content:

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
3   <groupId>upes.devops.2021</groupId>
4   <artifactId>MVN_SITE</artifactId>
5   <version>0.0.1-SNAPSHOT</version>
6   <dependencies>
7     <dependency>
8       <groupId>junit</groupId>
9       <artifactId>junit</artifactId>
10      <version>4.13</version>
11      <scope>test</scope>
12    </dependency>
13  </dependencies>
14 </project>
```

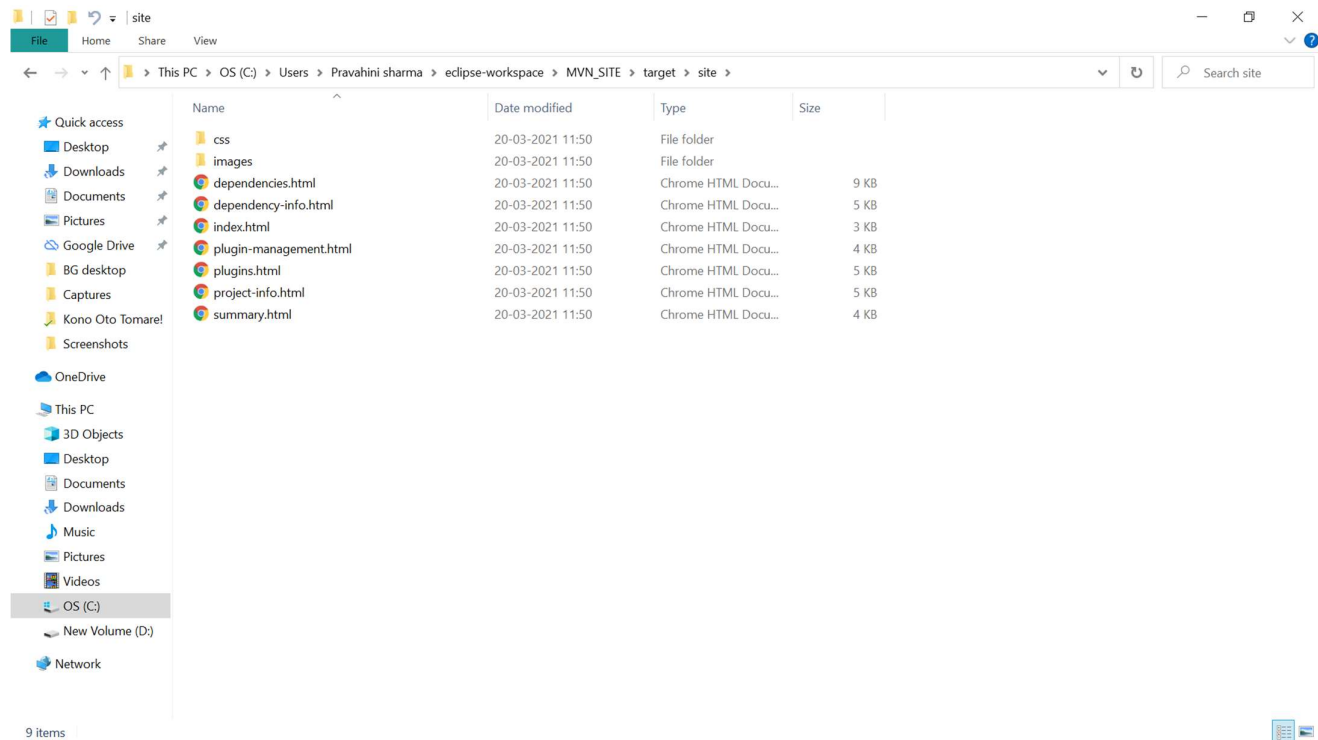
The console output shows the following:

```
<terminated> MVN_SITE (3) [Maven Build] C:\Program Files\Java\jdk-11.0.9\bin\javaw.exe (20-Mar-2021, 11:21:15 am)
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 2.144 s
[INFO] Finished at: 2021-03-20T11:21:19+05:30
[INFO] -----
```

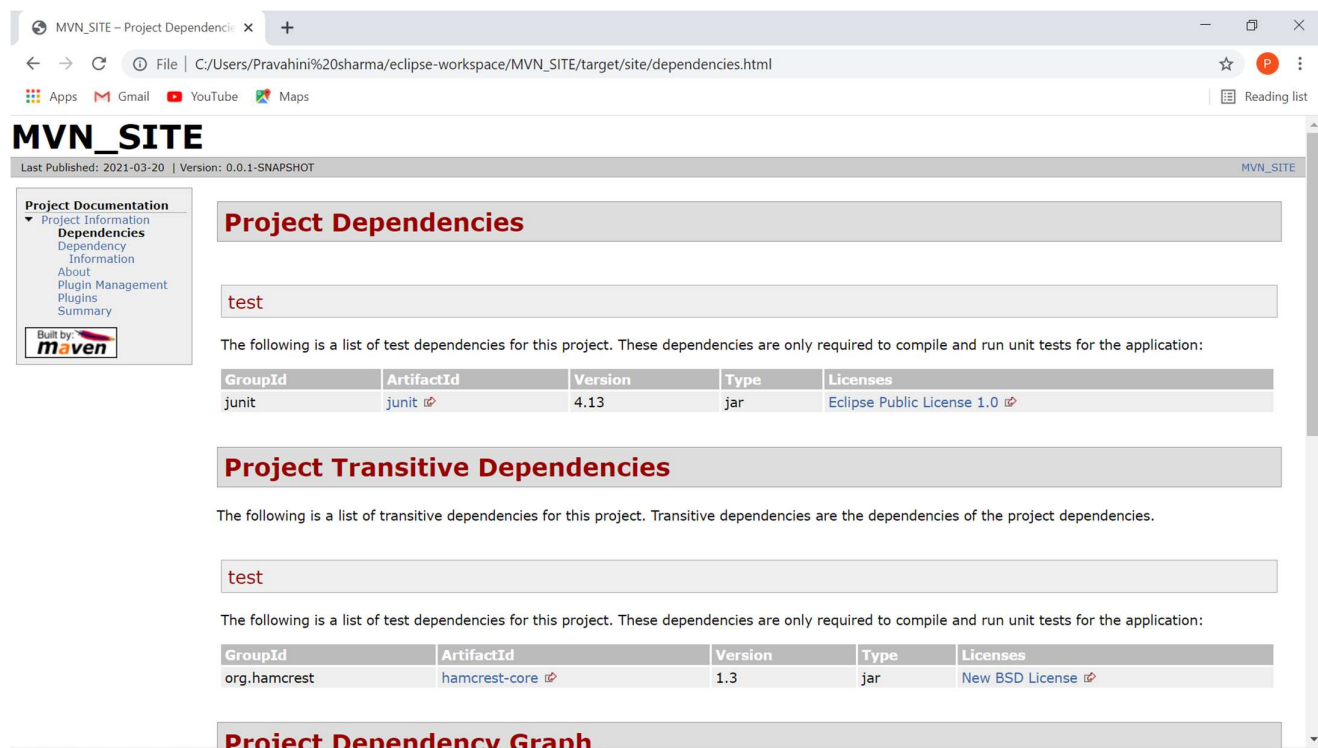
Step 6: Now, set the “Goal” as “site”. This will generate the Web documentation of project



Step 7: Now go to the target folder and open the site folder (that contains web documentation of the project)



Step 8: Now, open “index.html” in site folder



MVN_SITE - Dependency Inform

File | C:/Users/Pravahini%20sharma/eclipse-workspace/MVN_SITE/target/site/dependency-info.html

Apps Gmail YouTube Maps

Reading list

Project Documentation

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

Dependency Information

Apache Maven

```
<dependency>
<groupId>upes.devops.2021</groupId>
<artifactId>MVN_SITE</artifactId>
<version>0.0.1-SNAPSHOT</version>
</dependency>
```

Apache Buildr

```
'upes.devops.2021:MVN_SITE:jar:0.0.1-SNAPSHOT'
```

Apache Ivy

```
<dependency org="upes.devops.2021" name="MVN_SITE" rev="0.0.1-SNAPSHOT">
<artifact name="MVN_SITE" type="jar" />
</dependency>
```

MVN_SITE - Project Plugins

File | C:/Users/Pravahini%20sharma/eclipse-workspace/MVN_SITE/target/site/plugins.html

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Project Documentation

- Project Information
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Project Build Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	maven-clean-plugin	2.5
org.apache.maven.plugins	maven-compiler-plugin	3.1
org.apache.maven.plugins	maven-deploy-plugin	2.7
org.apache.maven.plugins	maven-install-plugin	2.4
org.apache.maven.plugins	maven-jar-plugin	2.4
org.apache.maven.plugins	maven-resources-plugin	2.6
org.apache.maven.plugins	maven-site-plugin	3.7.1
org.apache.maven.plugins	maven-surefire-plugin	2.12.4

Project Report Plugins

GroupId	ArtifactId	Version
org.apache.maven.plugins	maven-project-info-reports-plugin	3.1.1

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