

BUILD AND RELEASE MANAGEMENT LAB

**LAB 5
19th FEBRUARY**

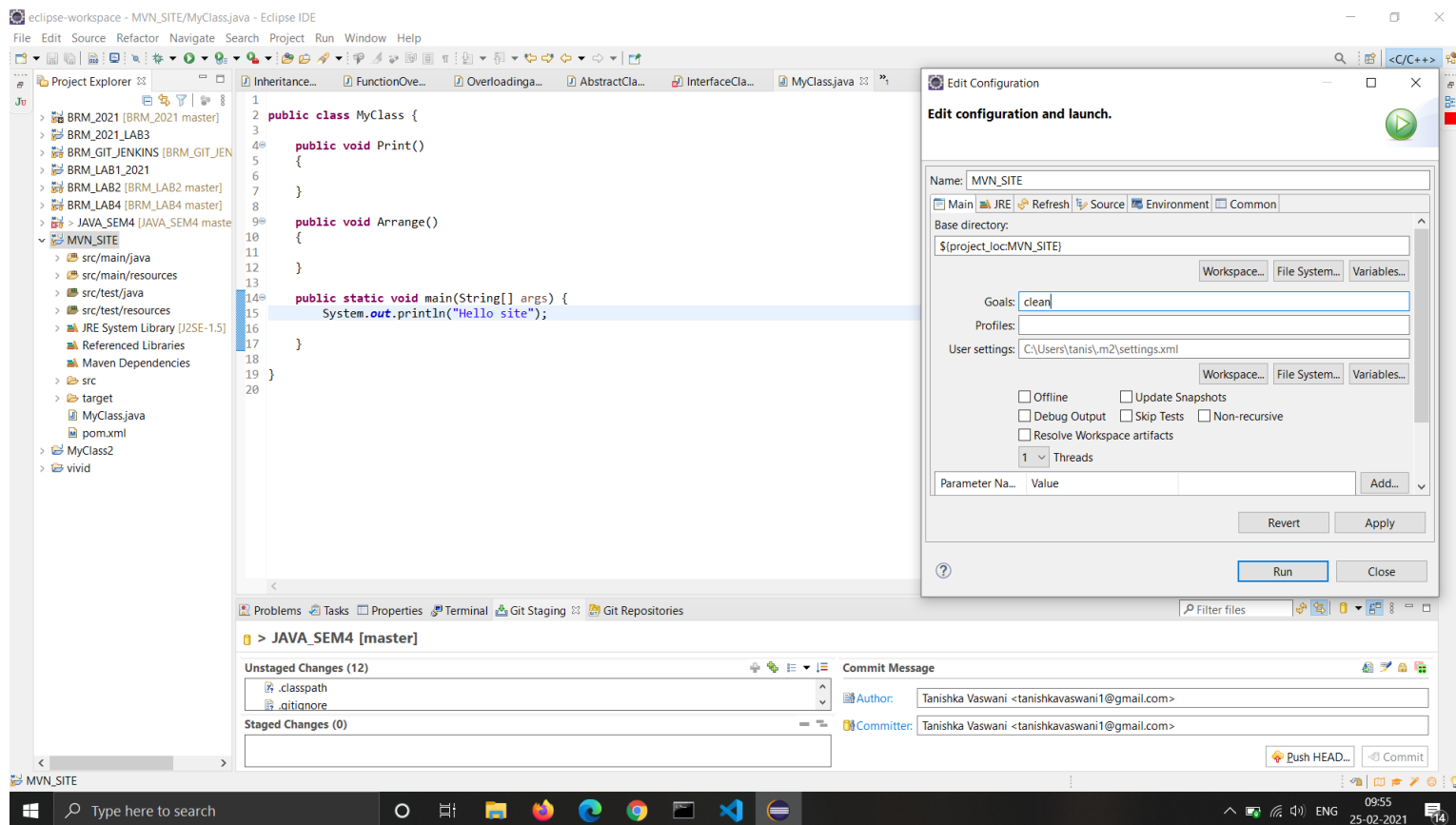
**TANISHKA VASWANI
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DEVOPS 2ND YEAR
4th SEMESTER**

Aim: Install and Manage Maven Plugin using Eclipse

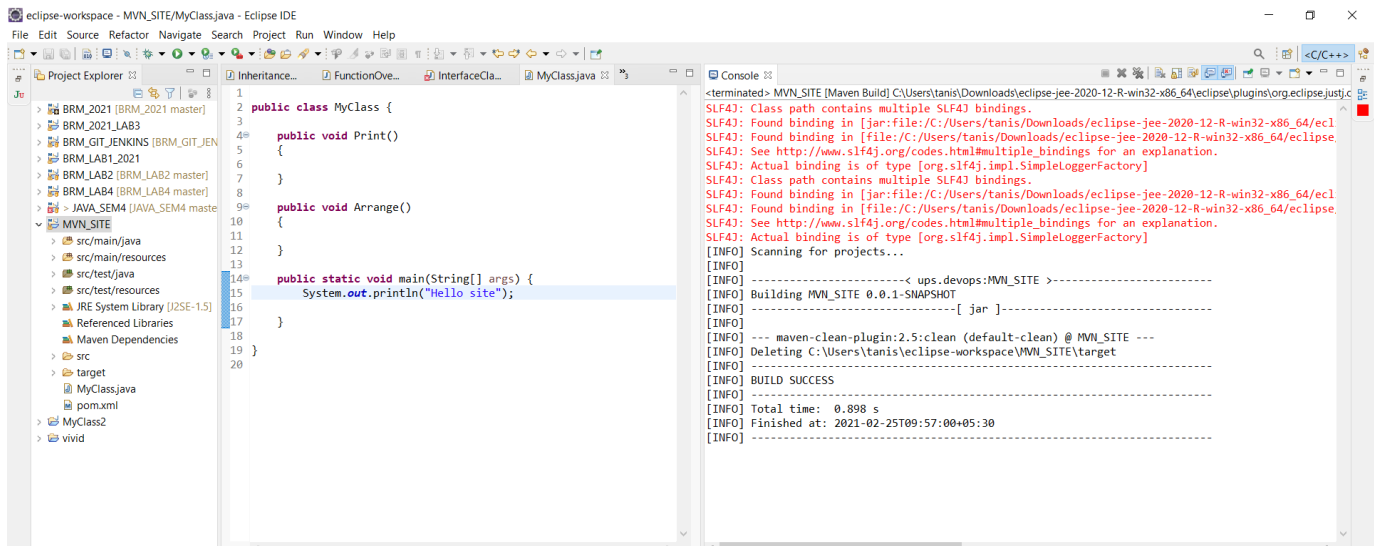
Install Site Plugin and use “mvn site” command and goal for generating documents for Maven Project using Eclipse.

Procedure:

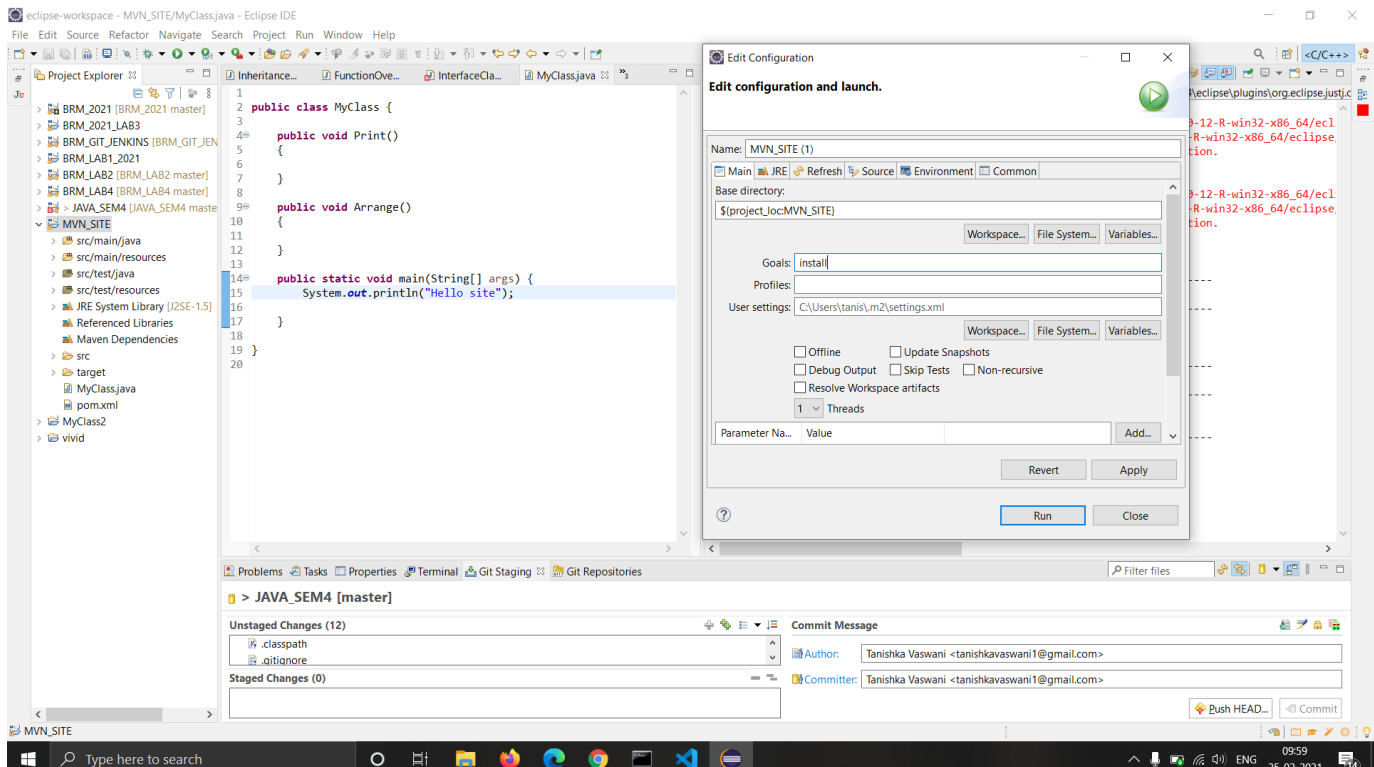
- Create a maven project and a java class file
- Add the required code in the java program
- Run the clean goal



- The goal is completed and the build is successful



- Run the install goal on the same java program. A jar file will be generated



- The goal is completed and the build is successful

The screenshot shows the Eclipse IDE interface with the following components:

- Project Explorer:** Displays a project named `MVN_SITE` with a directory structure including `src/main/java`, `src/main/resources`, `src/test/java`, `src/test/resources`, `target`, `MyClass.java`, `pom.xml`, `MyClass2`, and `vivid`.
- Editor:** Shows the `MyClass.java` file with the following code:

```
1 public class MyClass {
2
3
4     public void Print()
5     {
6
7     }
8
9     public void Arrange()
10    {
11
12    }
13
14    public static void main(String[] args) {
15        System.out.println("Hello site");
16    }
17 }
18
19
20
```
- Console:** Displays the Maven build output, indicating a successful build. The output includes the following messages:

```
<terminated> MVN_SITE (1) [Maven Build] C:\Users\tanis\Downloads\eclipse-jee-2020-12-R-win32-x86_64\eclipse\plugins\org.eclipse.j...
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ MVN_SITE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is plat
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ MVN_SITE ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ MVN_SITE ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is plat
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ MVN_SITE ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ MVN_SITE ---
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ MVN_SITE ---
[INFO] Building jar: C:\Users\tanis\eclipse-workspace\MVN_SITE\target\MVN_SITE-0.0.1-SNAPSHOT.jar
[INFO] --- maven-install-plugin:2.4:install (default-install) @ MVN_SITE ---
[INFO] Installing C:\Users\tanis\eclipse-workspace\MVN_SITE\target\MVN_SITE-0.0.1-SNAPSHOT.jar to
[INFO] Installing C:\Users\tanis\eclipse-workspace\MVN_SITE\pom.xml to C:\Users\tanis\.m2\reposito
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 10.244 s
[INFO] Finished at: 2021-02-25T10:00:34+05:30
[INFO] -----
```

- Edit the pom.xml file in order to add the required dependencies for running site goal

eclipse-workspace - MVN_SITE/pom.xml - Eclipse IDE

File Edit Source Navigate Search Project Run Window Help

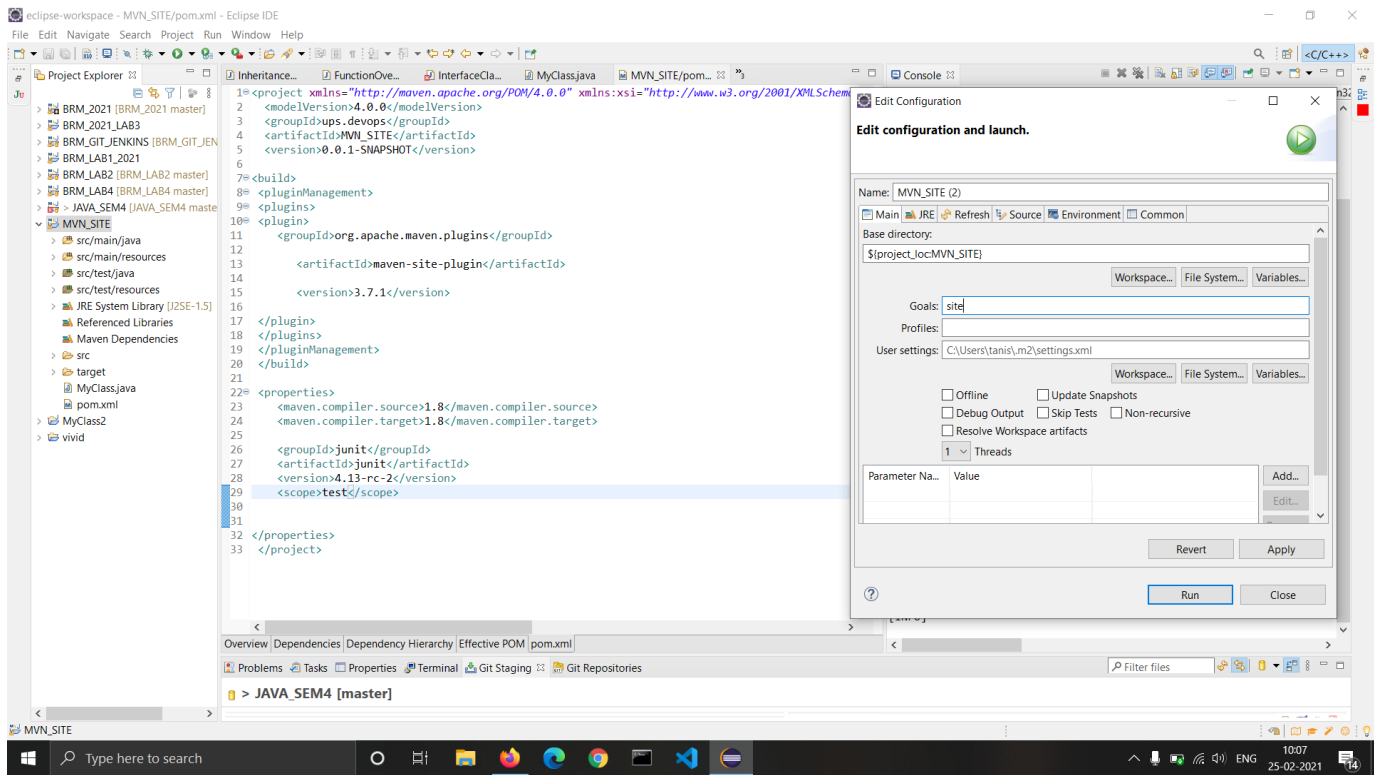
Project Explorer

- BRM_2021 [BRM_2021 master]
- BRM_2021_LAB3
- BRM_GIT_JENKINS [BRM_GIT_JENKINS master]
- BRM_LAB1_2021
- BRM_LAB2 [BRM_LAB2 master]
- BRM_LAB4 [BRM_LAB4 master]
- JAVA_SEM4 [JAVA_SEM4 master]
- MVN_SITE**
 - src/main/java
 - src/main/resources
 - src/test/java
 - src/test/resources
 - JRE System Library [J2SE-1.5]
 - Referenced Libraries
 - Maven Dependencies
 - src
 - target
 - MyClass.java
 - pom.xml
- MyClass2
- vivid

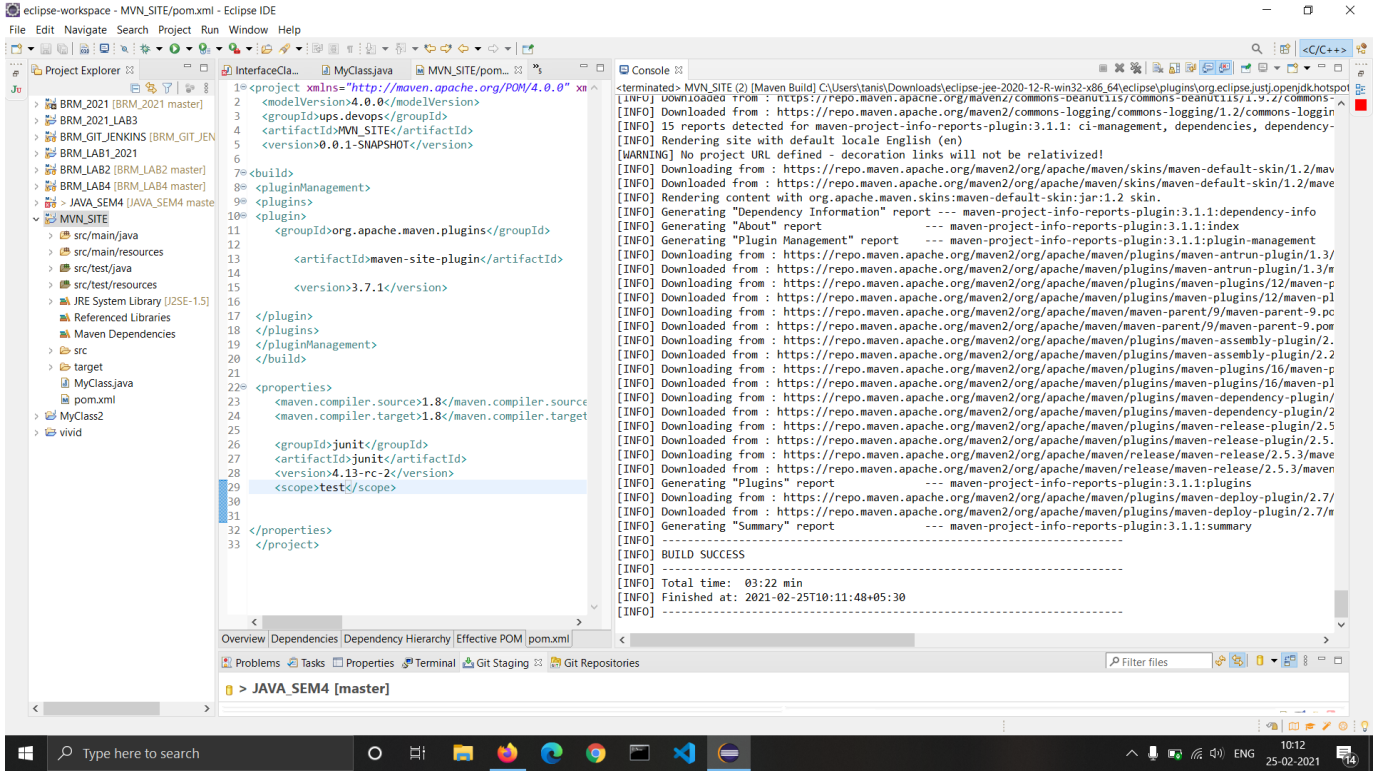
Editor: MVN_SITE/pom.xml

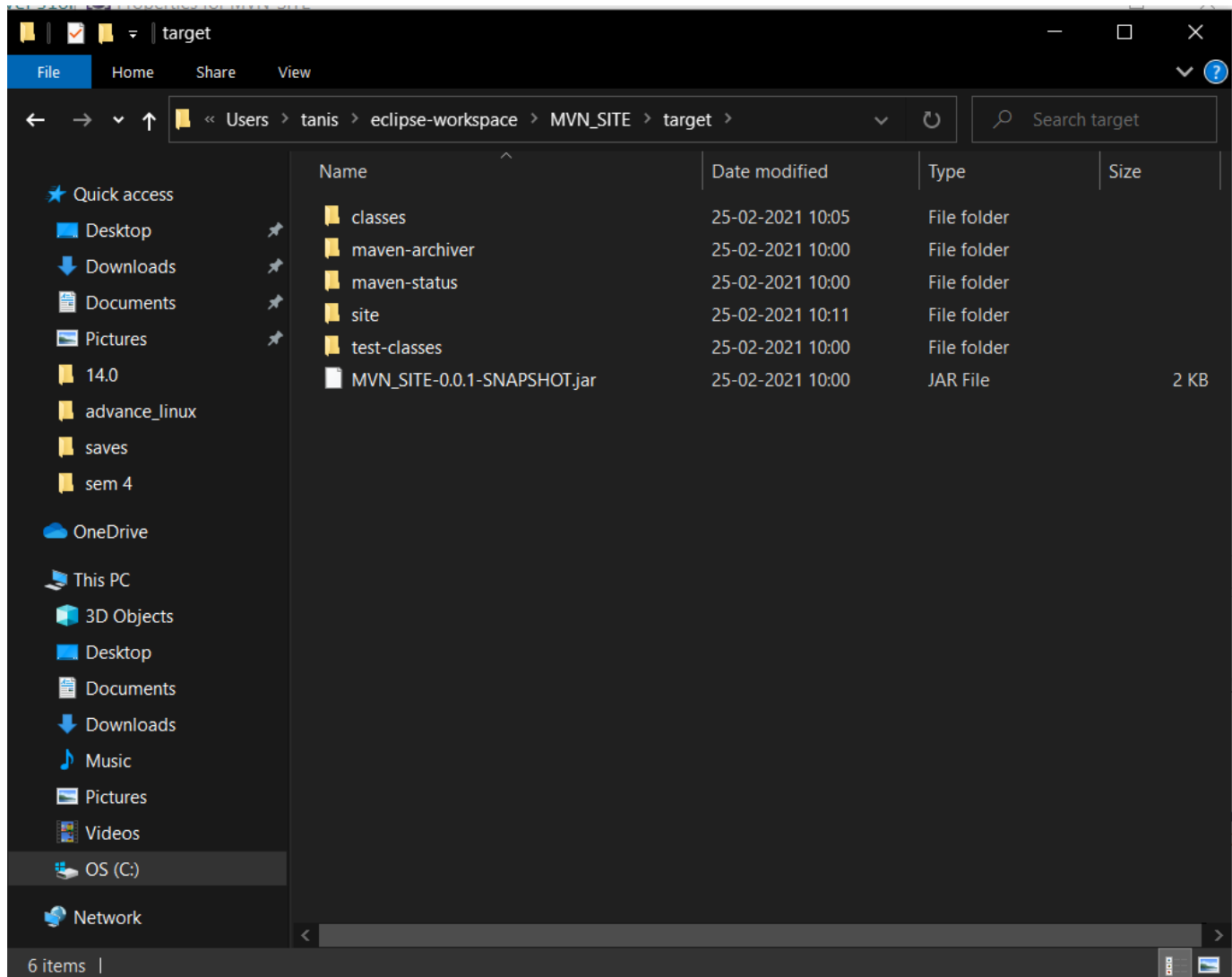
```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
4     <groupId>ups.devops</groupId>
5     <artifactId>MVN_SITE</artifactId>
6     <version>0.0.1-SNAPSHOT</version>
7     <build>
8         <pluginManagement>
9             <plugins>
10                <plugin>
11                    <groupId>org.apache.maven.plugins</groupId>
12                    <artifactId>maven-site-plugin</artifactId>
13                    <version>3.7.1</version>
14                </plugin>
15            </plugins>
16        </pluginManagement>
17    </build>
18    <properties>
19        <maven.compiler.source>1.8</maven.compiler.source>
20        <maven.compiler.target>1.8</maven.compiler.target>
21    </properties>
22    <dependencies>
23        <dependency>
24            <groupId>junit</groupId>
25            <artifactId>junit</artifactId>
26            <version>4.13-rc-2</version>
27            <scope>test</scope>
28        </dependency>
29    </dependencies>
30 </project>
```

- Run the site goal on the same java program. A site folder will be created



- The goal is completed and the build is successful





- We can view the various html files generated. These files are required for documentation purposes

INDEX.HTML

file:///C:/Users/tanis/eclipse-workspace/MVN_SITE/target/site/index.html

MVN_SITE

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

Project Documentation

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

Built by maven

About MVN_SITE

There is currently no description associated with this project.

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Type here to search

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DEPENDENCY-INFO.HTML

← → ↺ 🏠

file:///C:/Users/tanis/eclipse-workspace/MVN_SITE/target/site/dependency-info.html

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MVN_SITE

Project Documentation

▼ Project Information

Dependency Information


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Dependency Information

Apache Maven

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

Apache Buildr

```
'ups.devops:MVN_SITE:jar:0.0.1-SNAPSHOT'
```

Apache Ivy

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

Groovy Grape

```
@Grapes(
@Grab(group='ups.devops', module='MVN_SITE', version='0.0.1-SNAPSHOT')
)
```

PLUGINS.HTML

← → ↺ 🏠

file:///C:/Users/tanis/eclipse-workspace/MVN_SITE/target/site/plugins.html

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MVN_SITE

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MVN_SITE

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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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