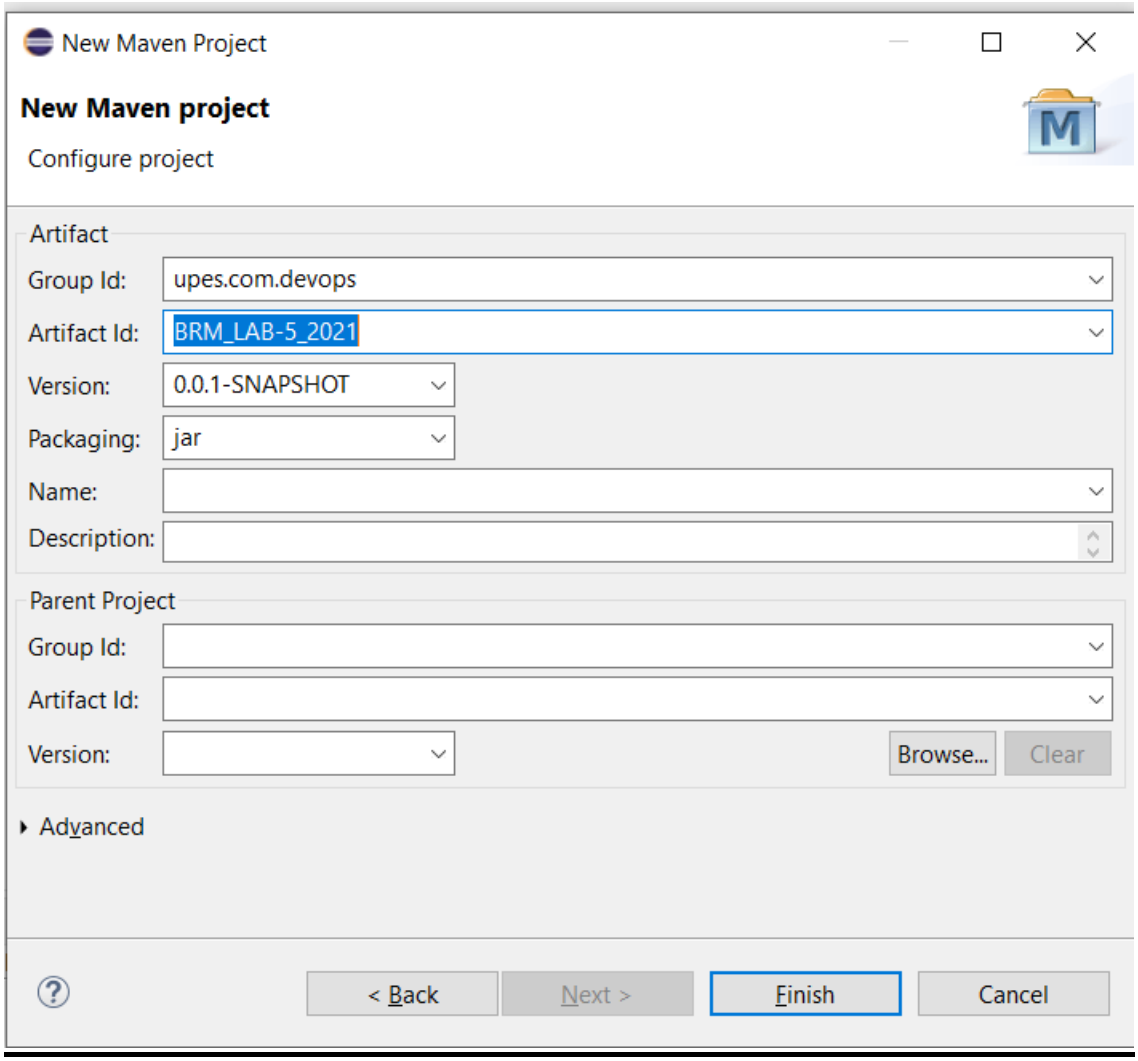
EXPERIMENT 5

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.

CREATING A SIMPLE MAVEN PROJECT



CREATE A CLASS WITH FOLLOWING CODE IN MAVEN PROJECT

MyClass.java | MyTestClass.java

BRM_LAB5_2021_MVN_SITE ▸ src/main/java ▸ (default package) ▸ MyClass ▸

```
1
2  public class MyClass {
3
4      public void f1()
5      {
6
7      }
8      public void f2()
9      {
10
11     }
12
13     public static void main(String[] args) {
14
15         System.out.println("Hello Maven Site");
16
17
18     }
19
20 }
21
```

EDIT POM.XML WITH THE FOLLOWING CODE

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://m
<modelVersion>4.0.0</modelVersion>
<groupId>document</groupId>
<artifactId>MvnSite</artifactId>
<version>0.0.1-SNAPSHOT</version>
<properties>
<maven.compiler.source>1.8</maven.compiler.source>
<maven.compiler.target>1.8</maven.compiler.target>
</properties>
<build>
<pluginManagement>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-site-plugin</artifactId>
<version>3.7.1</version>
</plugin>
</plugins>
</pluginManagement>
</build>
</project>
```

NOW RUN THE MAVEN GOALS

CLEAN

```
[INFO] Scanning for projects...
[INFO]
[INFO] -----------------< upes.devops:BRM_LAB5_2021_MVN_SITE >-----------------
[INFO] Building BRM_LAB5_2021_MVN_SITE 0.0.1-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ BRM_LAB5_2021_MVN_SITE ---
[INFO] Deleting C:\Users\Pranit Gupta\eclipse-workspace\BRM_LAB5_2021_MVN_SITE\target
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  0.460 s
[INFO] Finished at: 2021-02-25T09:53:24+05:30
[INFO] ------------------------------------------------------------------------
```

INSTALL

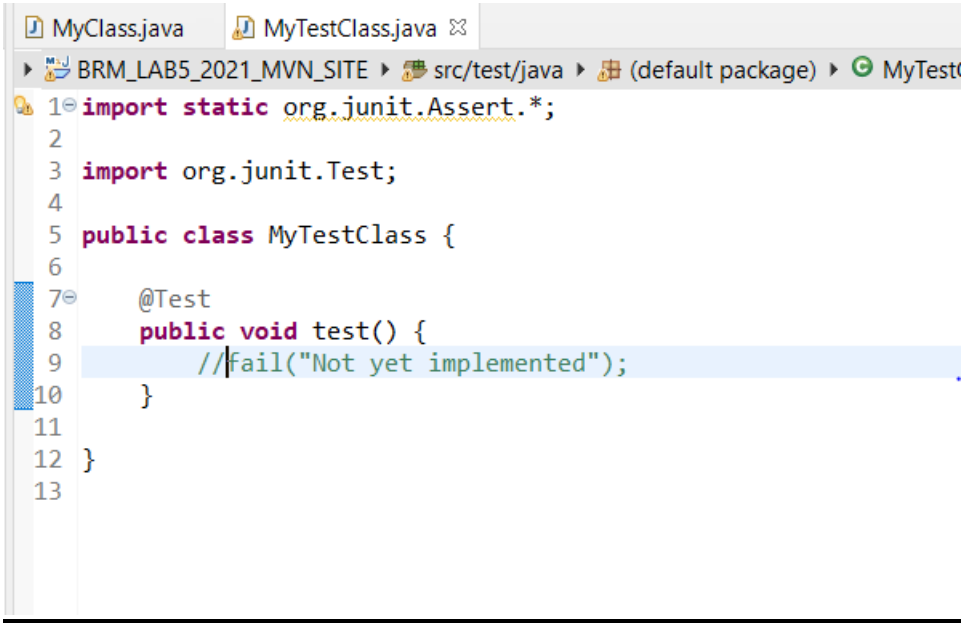
```
[INFO] Scanning for projects...
[INFO]
[INFO] --------------------------< document:MvnSite >--------------------------
[INFO] Building MvnSite 0.0.1-SNAPSHOT
[INFO] --------------------------------[ jar ]---------------------------------
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ MvnSite ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ MvnSite ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ MvnSite ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ MvnSite ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ MvnSite ---
[INFO]
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ MvnSite ---
[INFO] Building jar: C:\Users\Pranit Gupta\eclipse-workspace\BRM_LAB5_2021_MVN_SITE\target\MvnSite-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ MvnSite ---
[INFO] Installing C:\Users\Pranit Gupta\eclipse-workspace\BRM_LAB5_2021_MVN_SITE\target\MvnSite-0.0.1-SNAPSHOT.jar to C:\Users\Pranit Gup
[INFO] Installing C:\Users\Pranit Gupta\eclipse-workspace\BRM_LAB5_2021_MVN_SITE\pom.xml to C:\Users\Pranit Gupta\.m2\repository\document
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  3.040 s
[INFO] Finished at: 2021-02-25T10:26:57+05:30
[INFO] ------------------------------------------------------------------------
```

SITE

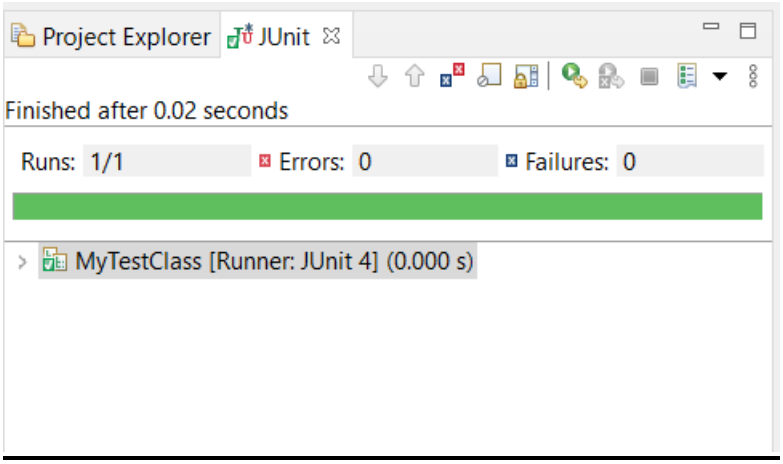
```
[INFO] Rendering content with org.apache.maven.skins:maven-default-skin:jar:1.2 skin.
[INFO] Generating "Dependency Information" report --- maven-project-info-reports-plugin:3.1.1:dependency-info
[INFO] Generating "About" report                  --- maven-project-info-reports-plugin:3.1.1:index
[INFO] Generating "Plugin Management" report      --- maven-project-info-reports-plugin:3.1.1:plugin-management
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-antrun-plugin-1.3.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-antrun-plugin/1.3/maven-antrun-plugin-1.3.pom (4.7 kB at 8.6 kB/
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/12/maven-plugins-12.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/12/maven-plugins-12.pom (12 kB at 23 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/9/maven-parent-9.pom
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/9/maven-parent-9.pom (33 kB at 54 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
[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 24 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
[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 19
[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 9.7 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 11 kB/s
[INFO] Generating "Summary" report                --- maven-project-info-reports-plugin:3.1.1:summary
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  06:46 min
[INFO] Finished at: 2021-02-25T10:36:40+05:30
[INFO] ------------------------------------------------------------------------
```

ADD JUNIT TESTING CODE AND TES THE TESTING

JUNIT TESTING CODE

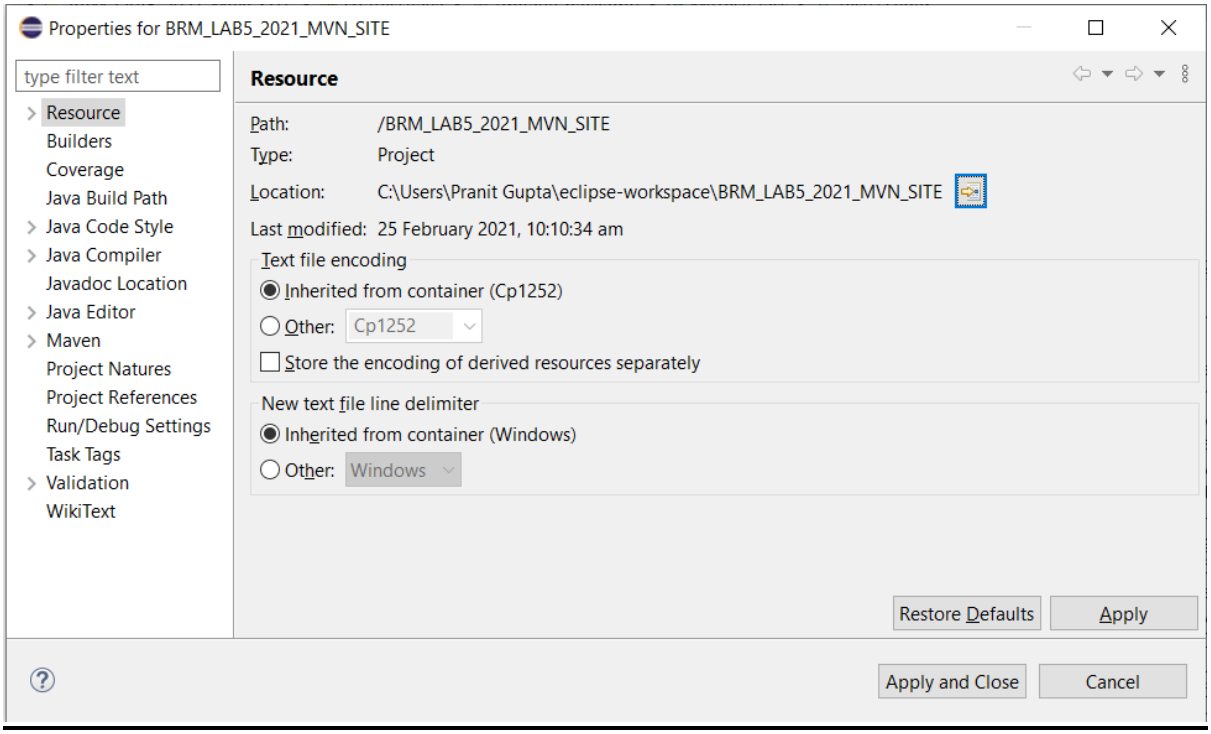


JUNIT TESTING RESULT

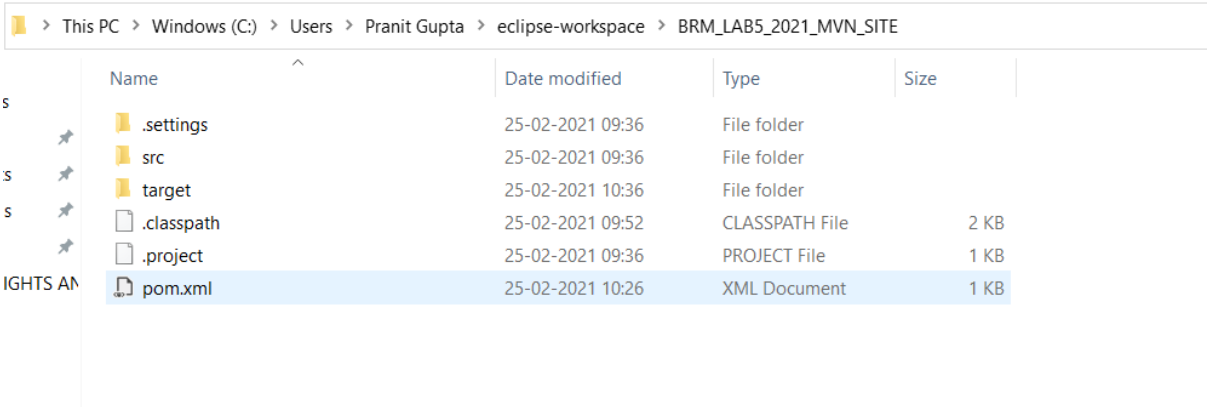


BROWSING TO INDEX.HTML

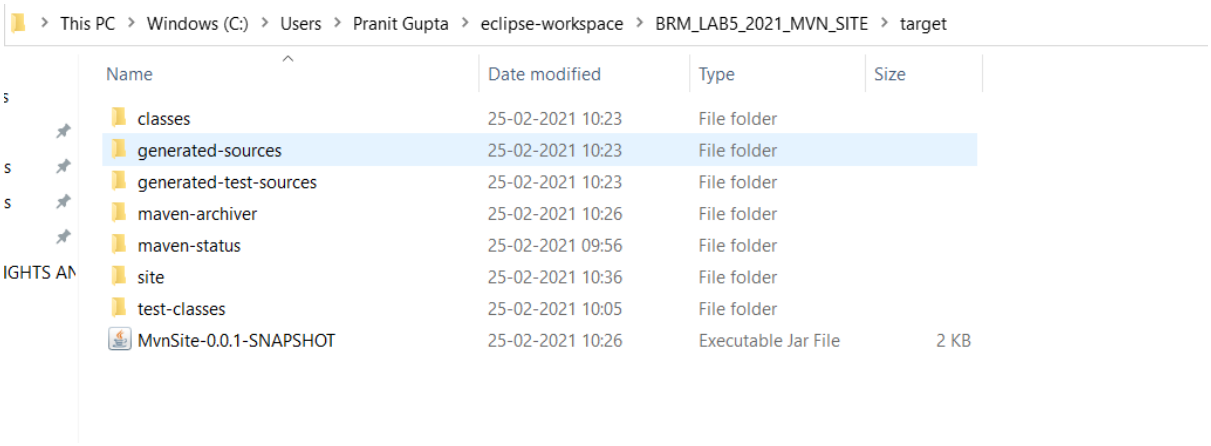
RIGHT CLICK ON THE MAVEN PROJECT



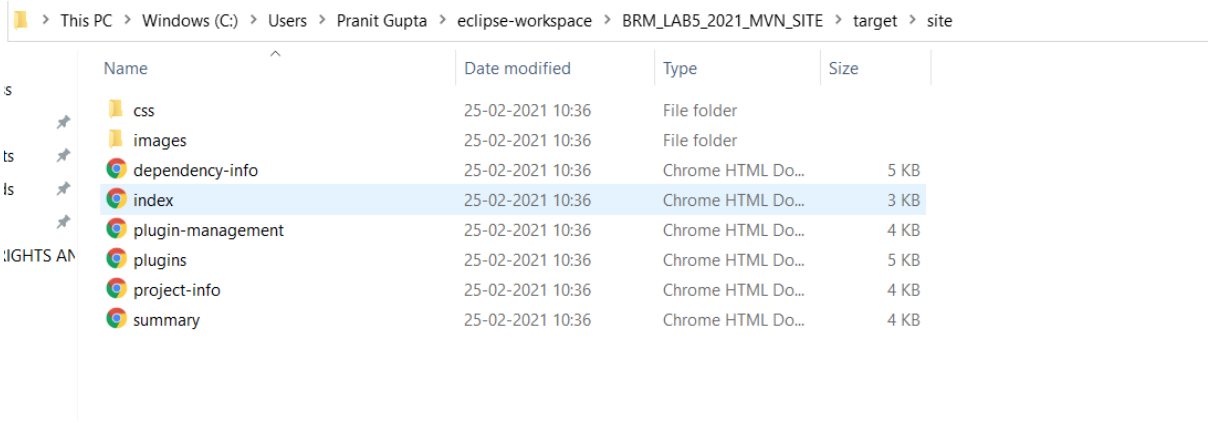
CLICK ON THE ICON HIGHLIGHTED AT THE END OF LOCATION AND THIS IS REDIRECT YOU TO YOUR WORKSPACE FOLDER



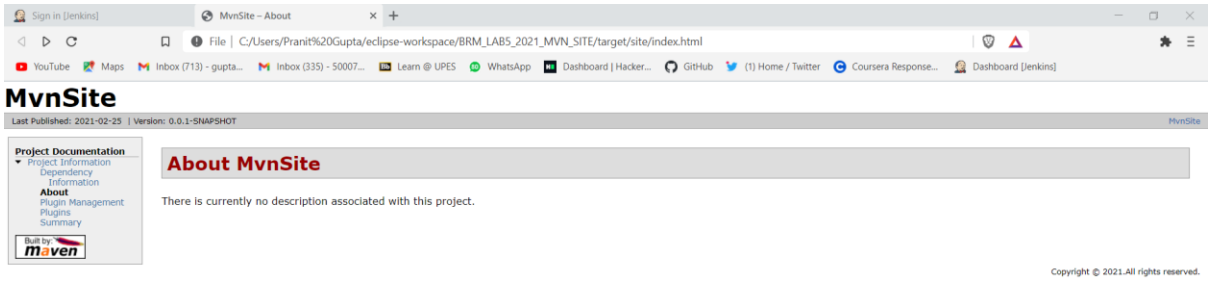
THEN OPEN THE TARGET FOLDER



NOW OPEN THE SITE FOLDER



THEN CLICK ON INDEX. HTML FOR VIEWING YOUR MVN SITE



PROJECT INFORMATION

Project Information

This document provides an overview of the various documents and links that are part of this project's general information. All of this content is automatically generated by Maven on behalf of the project.

Overview

Document	Description
Dependency Information	This document describes how to include this project as a dependency using various dependency management tools.
About	There is currently no description associated with this project.
Plugin Management	This document lists the plugins that are defined through pluginManagement.
Plugins	This document lists the build plugins and the report plugins used by this project.
Summary	This document lists other related information of this project

DEPENDENCY

Dependency Information

Apache Maven

```
<dependency>
  <groupId>document</groupId>
  <artifactId>MvnSite</artifactId>
  <version>0.0.1-SNAPSHOT</version>
</dependency>
```

Apache Buildr

```
'document:MvnSite:jar:0.0.1-SNAPSHOT'
```

Apache Ivy

```
<dependency org="document" name="MvnSite" rev="0.0.1-SNAPSHOT">
  <artifact name="MvnSite" type="jar" />
</dependency>
```

Groovy Grape

```
@Grapes(
@Grab(group='document', module='MvnSite', version='0.0.1-SNAPSHOT')
)
```

Gradle/Grails

```
compile 'document:MvnSite:0.0.1-SNAPSHOT'
```

Scala SBT

```
libraryDependencies += "document" % "MvnSite" % "0.0.1-SNAPSHOT"
```

Leiningen

```
[document/MvnSite "0.0.1-SNAPSHOT"]
```

ABOUT SITE

About MvnSite

There is currently no description associated with this project.

PLUGIN MANAGEMENT

Project Plugin Management

GroupId	ArtifactId	Version
org.apache.maven.plugins	maven-antrun-plugin	1.3
org.apache.maven.plugins	maven-assembly-plugin	2.2-beta-5
org.apache.maven.plugins	maven-dependency-plugin	2.8
org.apache.maven.plugins	maven-release-plugin	2.5.3
org.apache.maven.plugins	maven-site-plugin	3.7.1

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PUGINS

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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PEOJECT SUMMARY

Project Summary

Project Information

Field	Value
Name	MvnSite
Description	-
Homepage	-

Project Organization

This project does not belong to an organization.

Build Information

Field	Value
GroupId	document
ArtifactId	MvnSite
Version	0.0.1-SNAPSHOT
Type	jar
Java Version	1.8

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