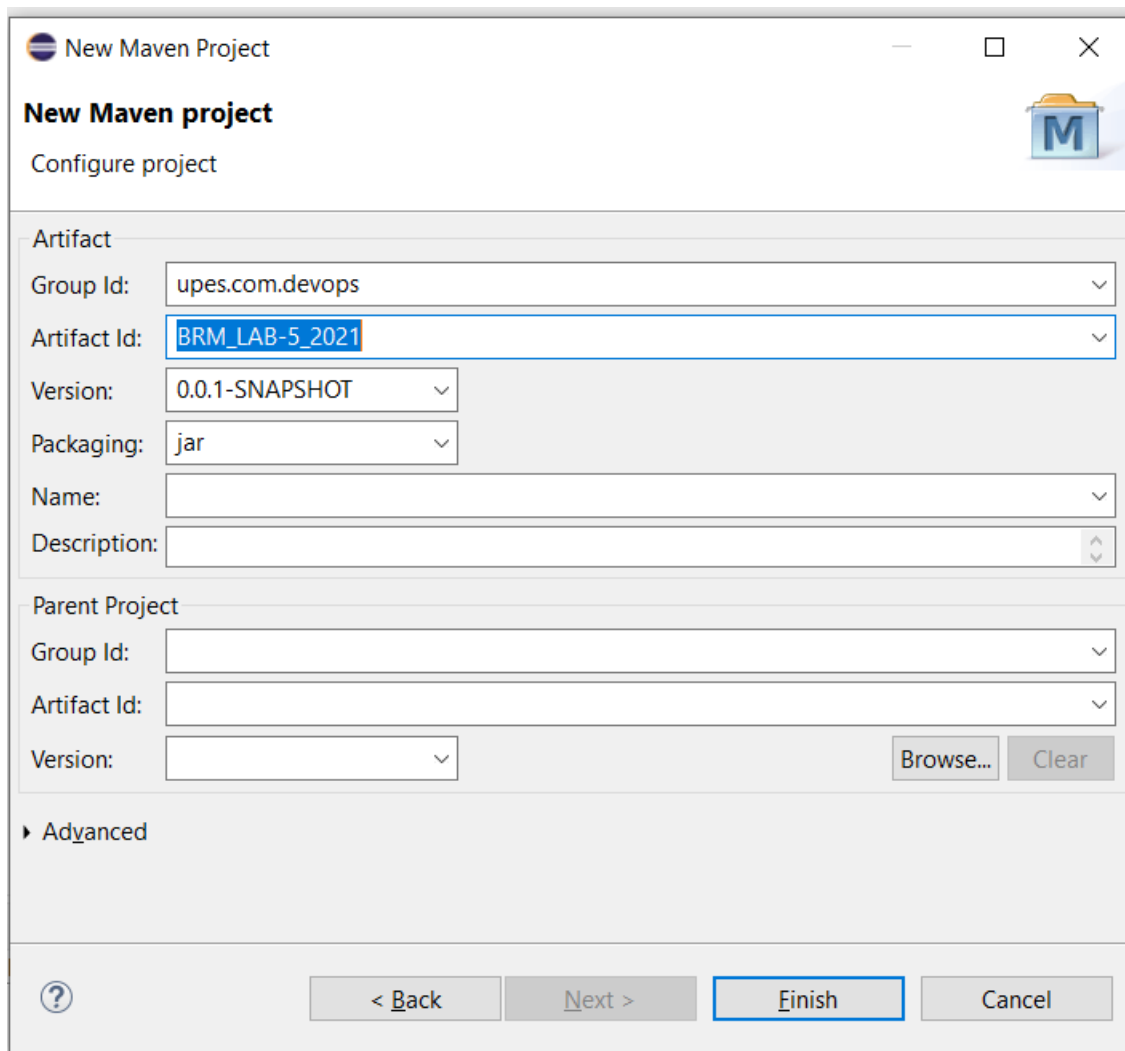


## EXPERIMENT 5

### 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

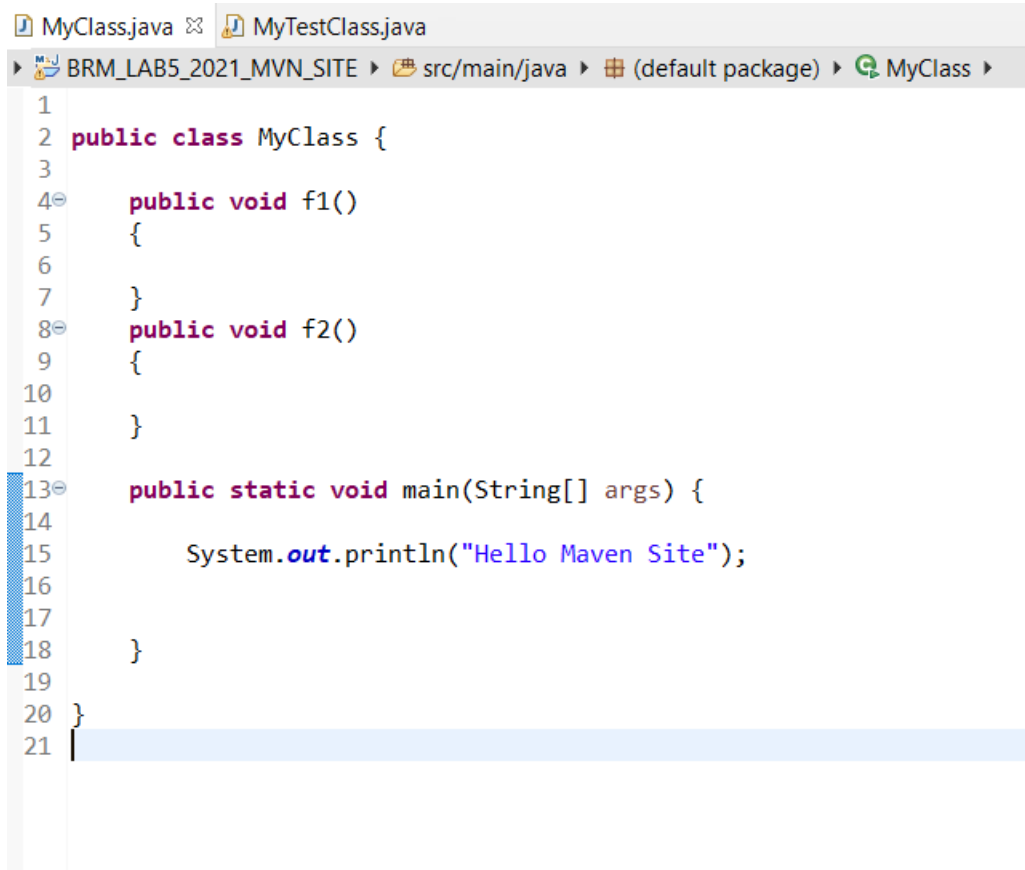


The screenshot shows the 'New Maven Project' dialog box in Eclipse. The title bar reads 'New Maven Project'. Below the title bar, the text 'New Maven project' is displayed, followed by 'Configure project'. A Maven logo is visible in the top right corner. The dialog is divided into several sections:

- Artifact**:
  - Group Id:
  - Artifact Id:
  - Version:
  - Packaging:
  - Name:
  - Description:
- Parent Project**:
  - Group Id:
  - Artifact Id:
  - Version:
  -
- Advanced**: (indicated by a right-pointing triangle icon)

At the bottom of the dialog, there are four buttons: a help icon (question mark), '< Back', 'Next >', and 'Finish' (highlighted with a blue border). A 'Cancel' button is also present on the right.

## CREATE A CLASS WITH FOLLOWING CODE IN MAVEN PROJECT



The screenshot shows an IDE window with two tabs: 'MyClass.java' and 'MyTestClass.java'. The 'MyClass.java' tab is active. The breadcrumb navigation at the top indicates the file path: 'BRM\_LAB5\_2021\_MVN\_SITE' > 'src/main/java' > '(default package)' > 'MyClass'. The code in the editor is as follows:

```
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

```
1<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">
2  <modelVersion>4.0.0</modelVersion>
3  <groupId>document</groupId>
4  <artifactId>MvnSite</artifactId>
5  <version>0.0.1-SNAPSHOT</version>
6  <properties>
7    <maven.compiler.source>1.8</maven.compiler.source>
8    <maven.compiler.target>1.8</maven.compiler.target>
9  </properties>
10 <build>
11   <pluginManagement>
12     <plugins>
13       <plugin>
14         <groupId>org.apache.maven.plugins</groupId>
15         <artifactId>maven-site-plugin</artifactId>
16         <version>3.7.1</version>
17       </plugin>
18     </plugins>
19   </pluginManagement>
20 </build>
21 </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

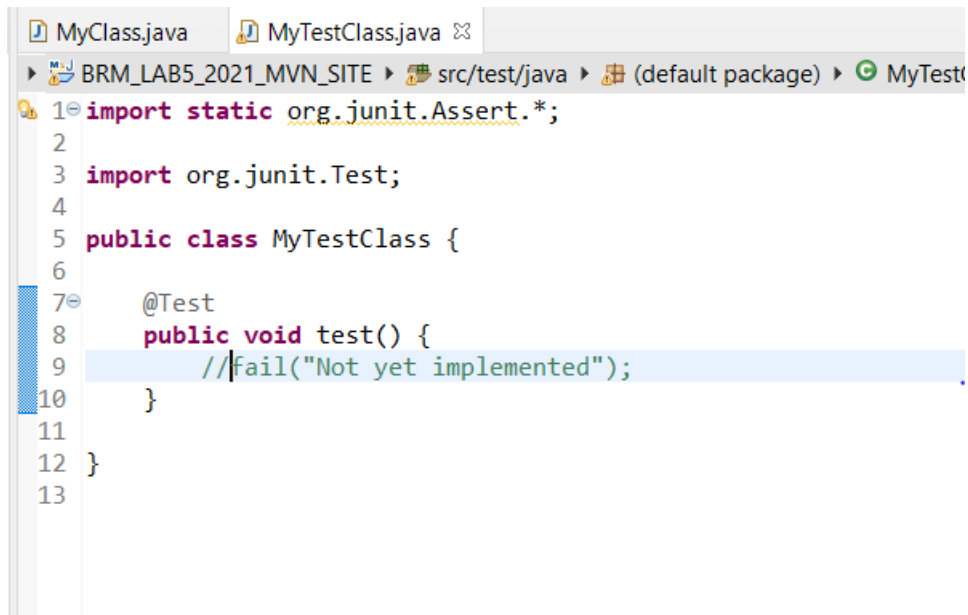
```
[INFO] Scanning for projects...
[INFO]
[INFO] -----< document:MvnSite >-----
[INFO] Building MvnSite 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ MvnSite ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered 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 Gupta\
[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/s)
[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 15
[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]
-----
```

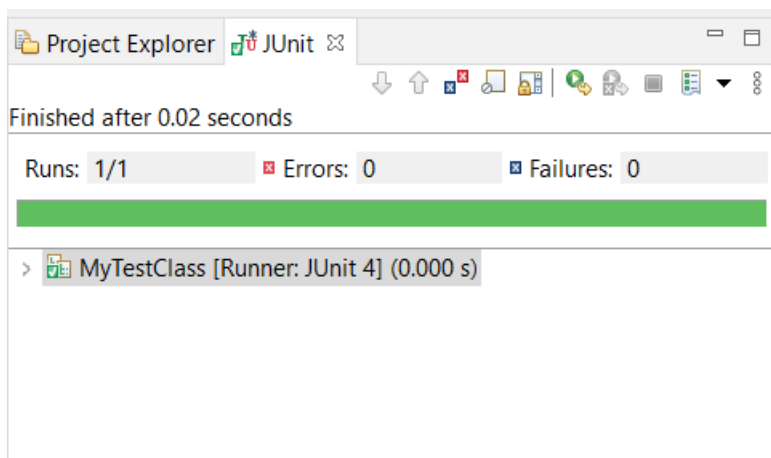
## ADD JUNIT TESTING CODE AND TEST THE TESTING

### JUNIT TESTING CODE



```
1 import static org.junit.Assert.*;
2
3 import org.junit.Test;
4
5 public class MyTestClass {
6
7     @Test
8     public void test() {
9         //fail("Not yet implemented");
10    }
11
12 }
13
```

### JUNIT TESTING RESULT



Project Explorer JUnit

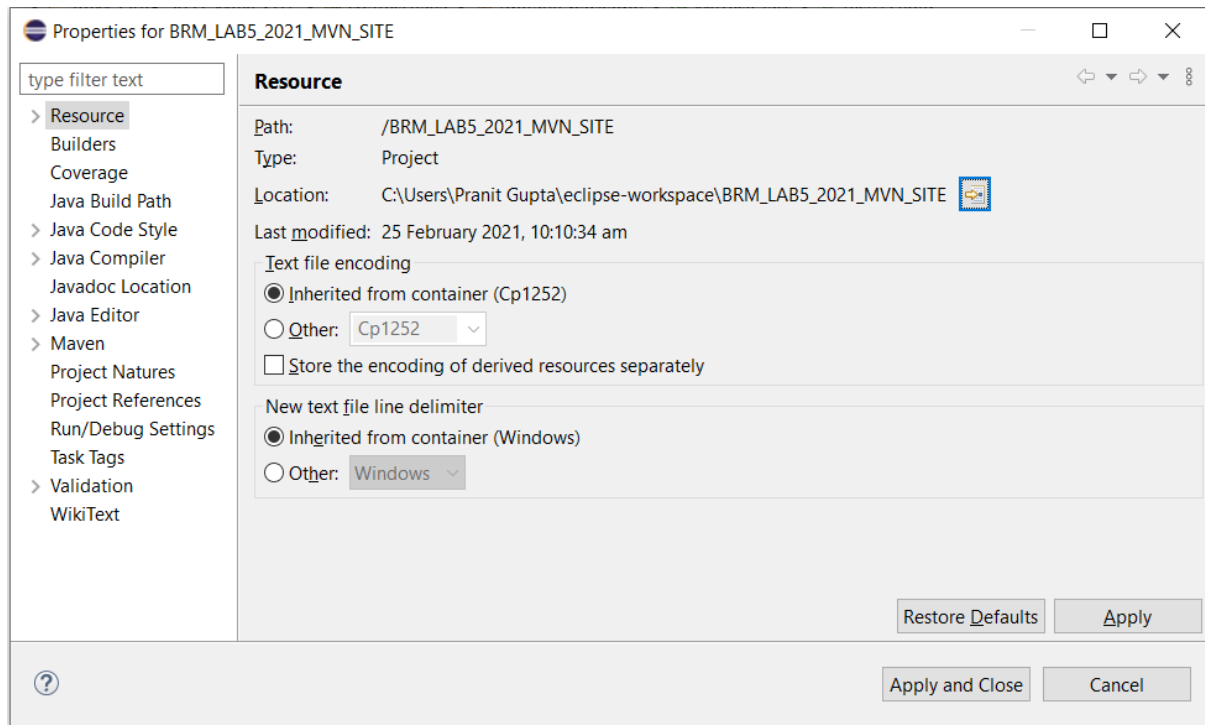
Finished after 0.02 seconds

Runs: 1/1    Errors: 0    Failures: 0

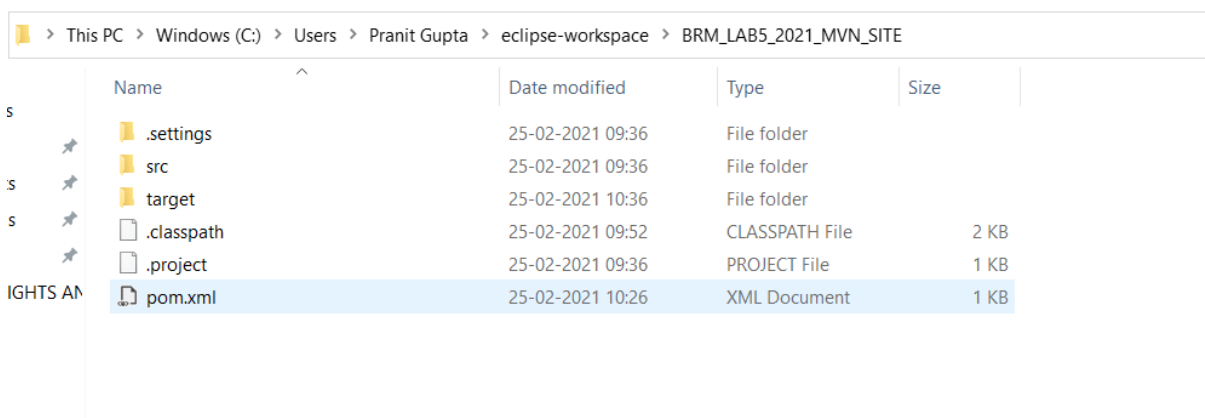
> MyTestClass [Runner: JUnit 4] (0.000 s)

## **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**

File Explorer path: This PC > Windows (C:) > Users > Pranit Gupta > eclipse-workspace > BRM\_LAB5\_2021\_MVN\_SITE > target

Name	Date modified	Type	Size
classes	25-02-2021 10:23	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 10:26	File folder	
maven-status	25-02-2021 09:56	File folder	
site	25-02-2021 10:36	File folder	
test-classes	25-02-2021 10:05	File folder	
MvnSite-0.0.1-SNAPSHOT	25-02-2021 10:26	Executable Jar File	2 KB

## **NOW OPEN THE SITE FOLDER**

File Explorer path: This PC > Windows (C:) > Users > Pranit Gupta > eclipse-workspace > BRM\_LAB5\_2021\_MVN\_SITE > target > site

Name	Date modified	Type	Size
css	25-02-2021 10:36	File folder	
images	25-02-2021 10:36	File folder	
dependency-info	25-02-2021 10:36	Chrome HTML Do...	5 KB
index	25-02-2021 10:36	Chrome HTML Do...	3 KB
plugin-management	25-02-2021 10:36	Chrome HTML Do...	4 KB
plugins	25-02-2021 10:36	Chrome HTML Do...	5 KB
project-info	25-02-2021 10:36	Chrome HTML Do...	4 KB
summary	25-02-2021 10:36	Chrome HTML Do...	4 KB

## **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
<a href="#">Dependency Information</a>	This document describes how to include this project as a dependency using various dependency management tools.
<a href="#">About</a>	There is currently no description associated with this project.
<a href="#">Plugin Management</a>	This document lists the plugins that are defined through pluginManagement.
<a href="#">Plugins</a>	This document lists the build plugins and the report plugins used by this project.
<a href="#">Summary</a>	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 Builder

```
'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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## PROJECT 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.

