

BUILD AND RELEASE MANAGEMENT LAB FILE

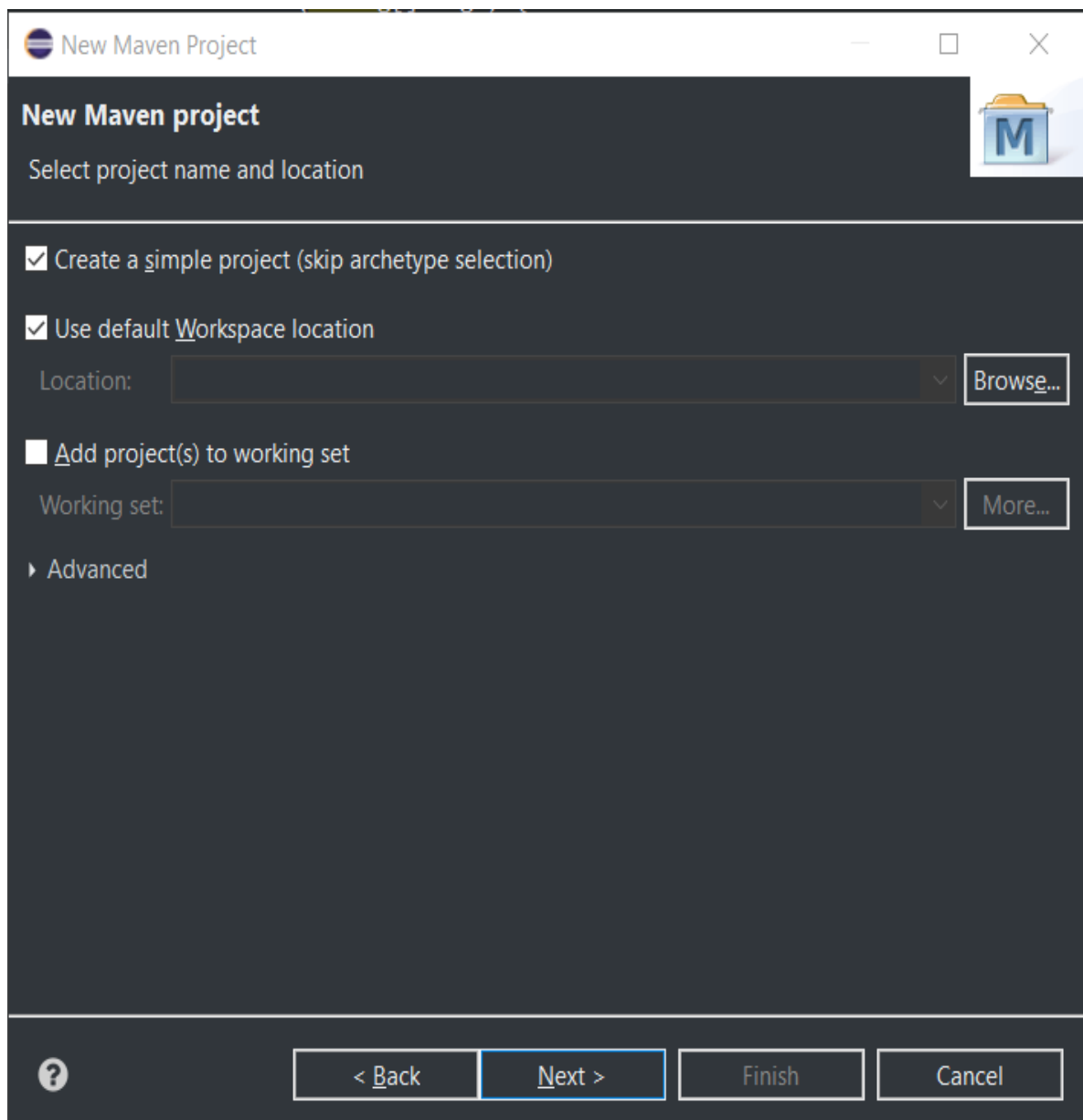
EXPERIMENT 5

AIM :

- 1.To create a Maven project and create a Java class in it.
- 2.Write a simple program in Java class.
- 3.Edit 'pom.xml' file to include Maven site plugin.
- 4.Run install command and then site command in the Maven project.

SOLUTION :

- Create a Maven project.



New Maven Project

New Maven project

Configure project

Artifact

Group Id: document

Artifact Id: MvnSite

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name:

Description:

Parent Project

Group Id:

Artifact Id:

Version:

Browse... Clear

Advanced

? < Back Next > Finish Cancel

- Create a Java class in it.

New Java Class

Java Class

⚠ The use of the default package is discouraged.

Source folder:

Package:

☐ Enclosing type:

Name:

Modifiers: ☐ public ☒ package ☐ private ☐ protected
☐ abstract ☐ final ☐ static

Superclass:

Interfaces:

Which method stubs would you like to create?

☒ public static void main(String[] args)

☐ Constructors from superclass

☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

- Program in Java class with output.

```
J TestSiteGoal.java
1 public class TestSiteGoal {
2
3     public static void goal()
4     {
5         System.out.println("Print site goal");
6     }
7
8     public static void main(String[] args) {
9         System.out.println("This is to test mvn site");
10        goal();
11    }
12
13 }
14
```

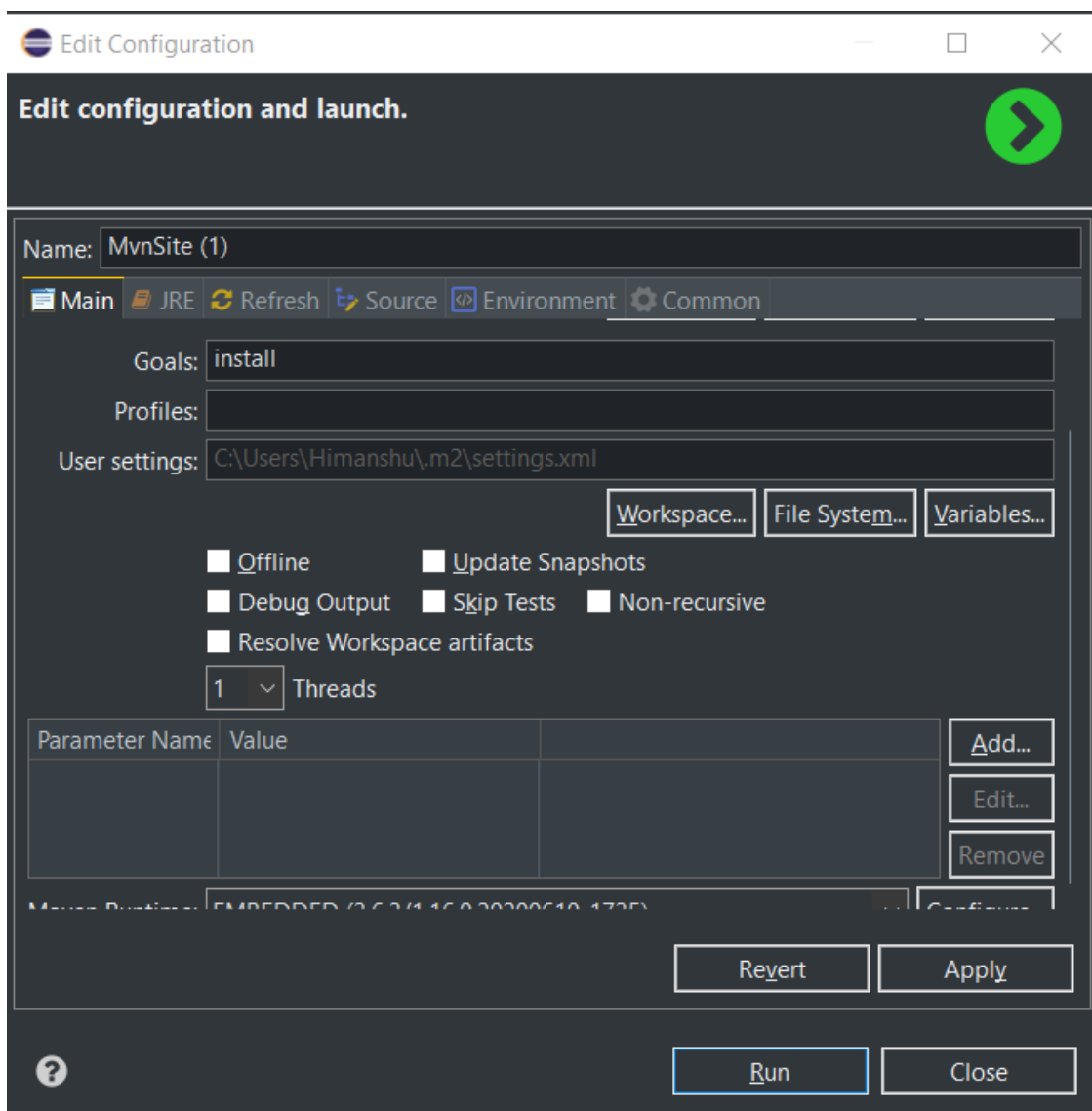
Console

```
<terminated> TestSiteGoal [Java Application] C:\Program Files (x86)\eclipse\plugins\o
This is to test mvn site
Print site goal
```

- Editing 'pom.xml' to add Maven site plugin.

```
TestSiteGoal.java  MvnSite/pom.xml ✕
1 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="h
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>
```

- Running the **install** command for the Maven project.



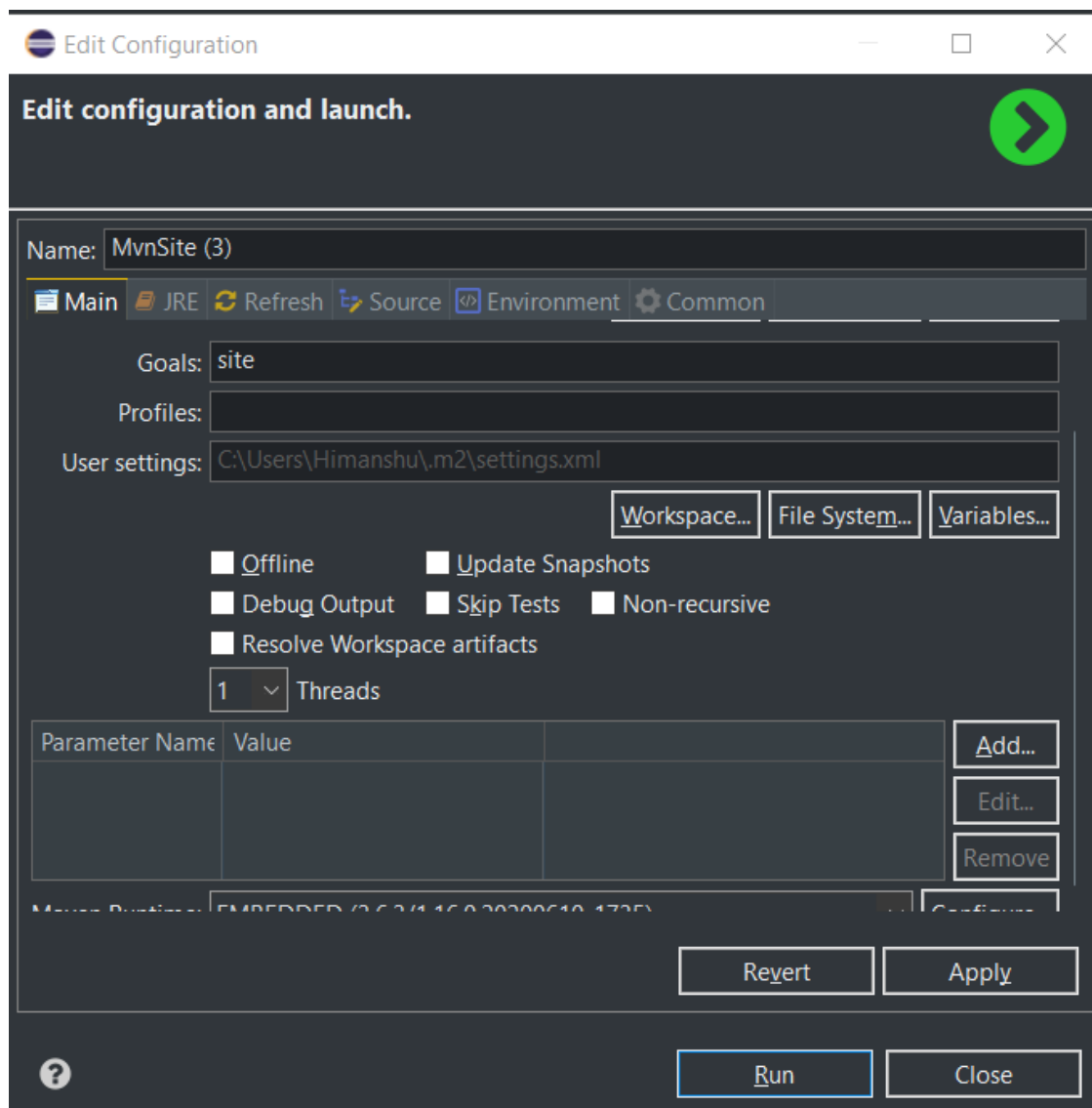
```

Console
<terminated> MvnSite (1) [Maven Build] C:\Program Files (x86)\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.1.v20201027-0507\jre

[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ MvnSite ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to C:\Users\Himanshu\eclipse-workspace\MvnSite\target\classes
[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\Himanshu\eclipse-workspace\MvnSite\target\MvnSite-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ MvnSite ---
[INFO] Installing C:\Users\Himanshu\eclipse-workspace\MvnSite\target\MvnSite-0.0.1-SNAPSHOT.jar to C:\Users\Himanshu\
[INFO] Installing C:\Users\Himanshu\eclipse-workspace\MvnSite\pom.xml to C:\Users\Himanshu\.m2\repository\document\Mv
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.196 s
[INFO] Finished at: 2021-02-25T10:06:07+05:30
[INFO] -----

```

- Running the **site** command for the Maven project.



```

Console
<terminated> MvnSite (10) [Maven Build] C:\Program Files (x86)\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x
[INFO] Generating "Plugin Management" report    --- maven-project-info-reports-plugin:3.1.1:pl
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-a
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-p
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/9
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/9/
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-a
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-p
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-d
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-r
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/release/maven-r
[INFO] Generating "Plugins" report    --- maven-project-info-reports-plugin:3.1.1:pl
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-d
[INFO] Generating "Summary" report    --- maven-project-info-reports-plugin:3.1.1:su
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 11.608 s
[INFO] Finished at: 2021-02-25T10:15:53+05:30
[INFO] -----

```

- The **.html** files generated in site folder.

r (C:) > Users > Himanshu > eclipse-workspace > MvnSite > target > site

Name	Date modified	Type	Size
css	25-02-2021 10:15	File folder	
images	25-02-2021 10:15	File folder	
dependency-info	25-02-2021 10:15	Brave HTML Docu...	5 KB
index	25-02-2021 10:15	Brave HTML Docu...	3 KB
plugin-management	25-02-2021 10:15	Brave HTML Docu...	4 KB
plugins	25-02-2021 10:15	Brave HTML Docu...	5 KB
project-info	25-02-2021 10:15	Brave HTML Docu...	4 KB
summary	25-02-2021 10:15	Brave HTML Docu...	4 KB

- The webpage generated in **.html** files.

Project Documentation

▼ Project Information

Dependency Information

About

Plugin Management









Plugins

Summary

Built by:



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 Documentation

▼ Project Information

Dependency Information


About

Plugin Management

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Summary

Built by:



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')
)
```

Project Documentation

Project Information

Dependency Information


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Plugins

Summary

Built by:



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