

# CICD END-SEM TASK

R171218009





## Build a simple maven project using Jenkins dashboard

Create maven project:

```
D:\A_semester_5\CICD\CICD LAB\endsem_lab>mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=akansha-app -DarchetypeArtifactId=maven-archetype-quickstart -DarchetypeVersion=1.4 -DinteractiveMode=false
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] >>> maven-archetype-plugin:3.2.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< maven-archetype-plugin:3.2.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] --- maven-archetype-plugin:3.2.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO] Using following parameters for creating project from Archetype: maven-archetype-quickstart:1.4
[INFO] -----
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: akansha-app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: packageInPathFormat, Value: com/mycompany/app
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.mycompany.app
[INFO] Parameter: groupId, Value: com.mycompany.app
[INFO] Parameter: artifactId, Value: akansha-app
[INFO] Project created from Archetype in dir: D:\A_semester_5\CICD\CICD LAB\endsem_lab\akansha-app
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 31.657 s
[INFO] Finished at: 2020-12-04T11:26:19+05:30
[INFO] -----
```

Push to GitHub:

```
akkan@DESKTOP-0BA08N4 MINGW64 /d/A_semester_5/CICD/CICD LAB/endsem_lab/akansha-app (master)
$ git push -u origin master
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (16/16), 1.79 KiB | 261.00 KiB/s, done.
Total 16 (delta 0), reused 0 (delta 0)
To https://github.com/Akansha0/cicd-endsem-task.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

 AkanshaA0 commit 1			d0a0a53	2 minutes ago	 1 commits
	src	commit 1			2 minutes ago
	pom.xml	commit 1			2 minutes ago

## Start Jenkins:

```
D:\A_semester_5\CICD>java -jar jenkins.war --httpPort=8081
Running from: D:\A_semester_5\CICD\jenkins.war
webroot: $user.home/.jenkins
2020-12-04 06:07:38.990+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @2087ms
to org.eclipse.jetty.util.log.JavaUtilLog
2020-12-04 06:07:39.247+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2020-12-04 06:07:39.351+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2020-12-04 06:07:39.484+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.27.v20200227; built:
2020-02-27T18:37:21.340Z; git: a304fd9f351f337e7c0e2a7c28878dd536149c6c; jvm 1.8.0_261-b12
2020-12-04 06:07:41.408+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /,
did not find org.eclipse.jetty.jsp.JettyJspServlet
2020-12-04 06:07:41.510+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager work
rName=node0
```

## Create maven project on Jenkins and add git repo URL:


The screenshot shows the Jenkins configuration page for a new project, specifically the 'Source Code Management' tab. The 'Git' option is selected under 'Post-build Actions'. In the 'Repositories' section, the 'Repository URL' is set to 'https://github.com/Akansha0/cicd-endsem-task.git'. The 'Credentials' dropdown is set to '- none -', with an 'Add' button next to it. There are also 'Advanced...' and 'Add Repository' buttons at the bottom right of the repository configuration area.

## Console output:

```
Jenkins  ▶ endsem-task1  #1

[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ akansha-app ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.mycompany.app.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.025 s - in com.mycompany.app.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[JENKINS] Recording test results
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ akansha-app ---
[INFO] Building jar: C:\Users\akkan\.jenkins\workspace\endsem-task1\target\akansha-app-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ akansha-app ---
[INFO] Installing C:\Users\akkan\.jenkins\workspace\endsem-task1\target\akansha-app-1.0-SNAPSHOT.jar to C:\Users\akkan\.m2\repository\com\mycompany\app\akansha-app-1.0-SNAPSHOT\akansha-app-1.0-SNAPSHOT.jar
[INFO] Installing C:\Users\akkan\.jenkins\workspace\endsem-task1\pom.xml to C:\Users\akkan\.m2\repository\com\mycompany\app\akansha-app-1.0-SNAPSHOT\akansha-app-1.0-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 10.355 s
[INFO] Finished at: 2020-12-04T11:43:34+05:30
[INFO]
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\akkan\.jenkins\workspace\endsem-task1\pom.xml to com.mycompany.app\akansha-app-1.0-SNAPSHOT\akansha-app-1.0-SNAPSHOT.pom
[JENKINS] Archiving C:\Users\akkan\.jenkins\workspace\endsem-task1\target\akansha-app-1.0-SNAPSHOT.jar to com.mycompany.app\akansha-app-1.0-SNAPSHOT\akansha-app-1.0-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

## Jenkins workspace:

OS (C:) > Users > akkan > .jenkins > workspace > endsem-task1 > target				
	Name	Date modified	Type	Size
	classes	12/4/2020 11:43 AM	File folder	
	generated-sources	12/4/2020 11:43 AM	File folder	
	generated-test-sources	12/4/2020 11:43 AM	File folder	
	maven-archiver	12/4/2020 11:43 AM	File folder	
	maven-status	12/4/2020 11:43 AM	File folder	
	surefire-reports	12/4/2020 11:43 AM	File folder	
	test-classes	12/4/2020 11:43 AM	File folder	
	 akansha-app-1.0-SNAPSHOT	12/4/2020 11:43 AM	Executable Jar File	3 KB