

BUILD AND RELEASE MANAGEMENT LAB FILE

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COURSE : Btech CSE DevOps(Semester –4th) (B1)

Experiment 2

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OBJECTIVE

1. Create a Maven project and create a Java class in it. Write a simple program in Java class.
2. Push the project to a remote Github repository.
3. Configure a job in Jenkins to be performed on the project in Github repository.
4. Run the jobs on Jenkins and perform builds.

IMPLEMENTATION

- Create a Maven project.

New Maven Project

New Maven project

Configure project

Artifact

Group Id: golem

Artifact Id: Jenkintest

Version: 0.0.1-SNAPSHOT

Packaging: jar

Name:

Description:

Parent Project

Group Id:

Artifact Id:

Version:

Browse...

Clear

Advanced

?

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Finish

Cancel

- Add Java class to maven project.

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

- Created a simple program in java class with output.

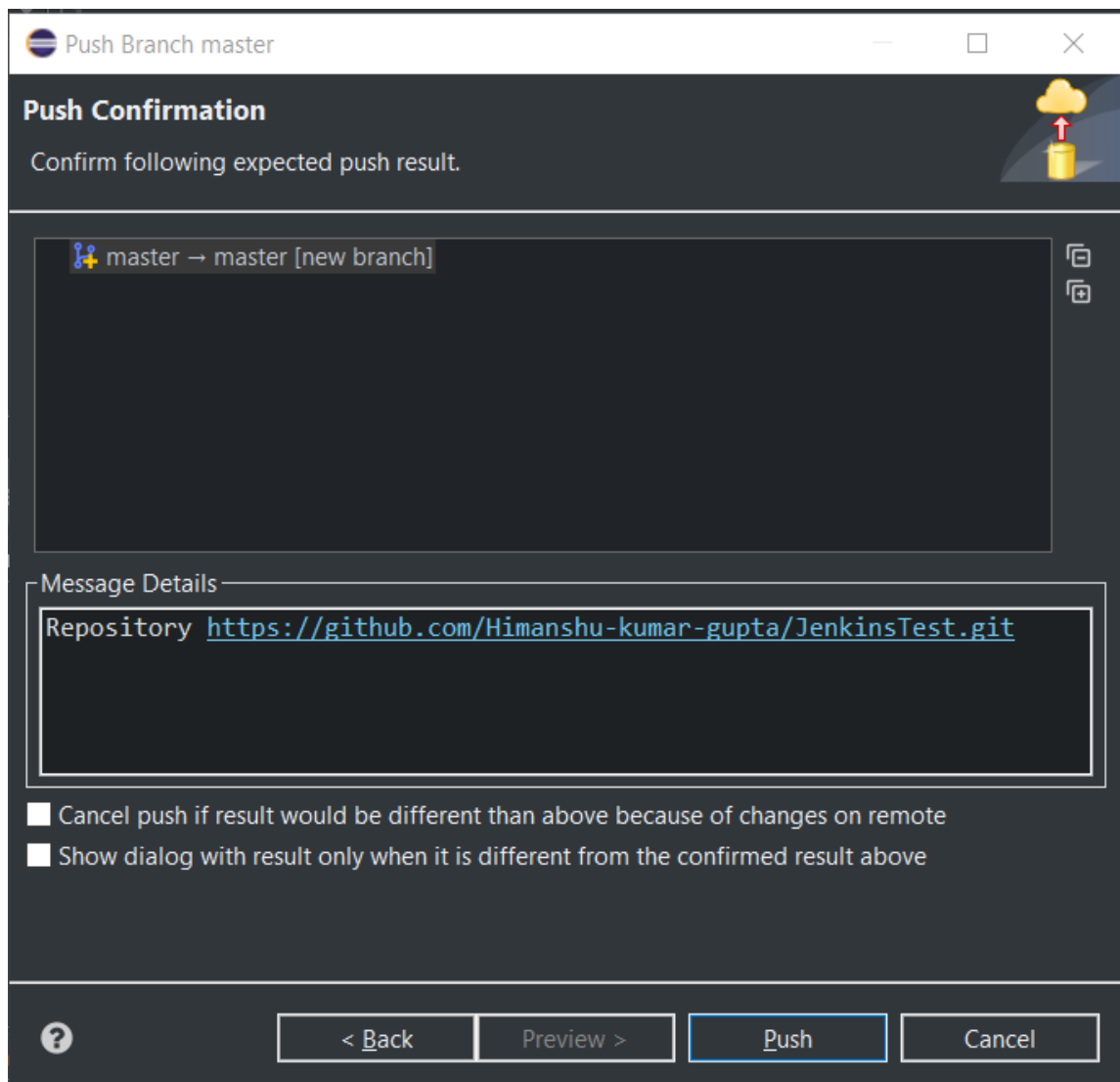
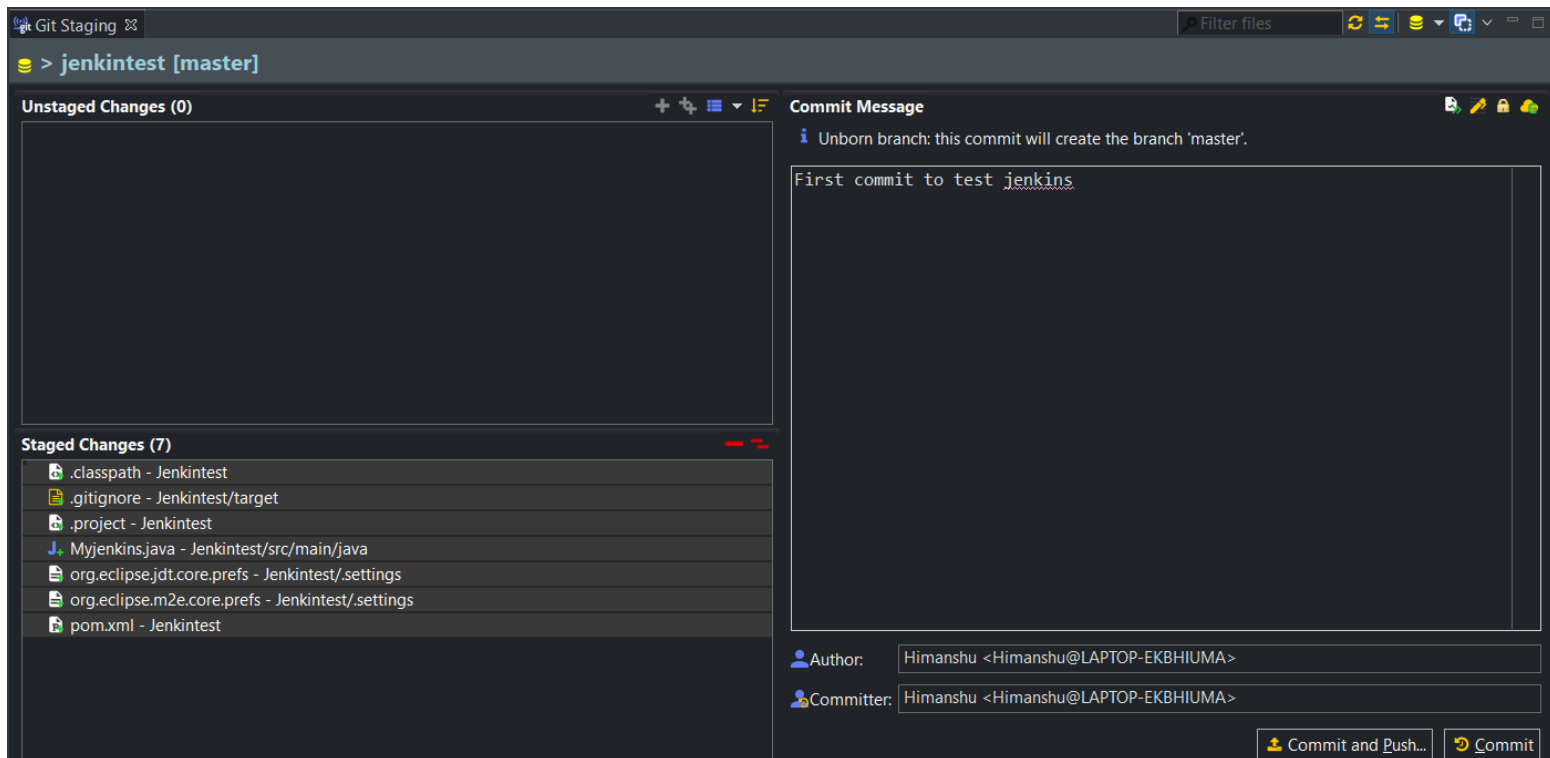
```
Myjenkins.java
1
2 public class Myjenkins {
3
4     public static void main(String[] args) {
5         System.out.println("This project is to test jenkins");
6     }
7 }
8
9 }
10
```

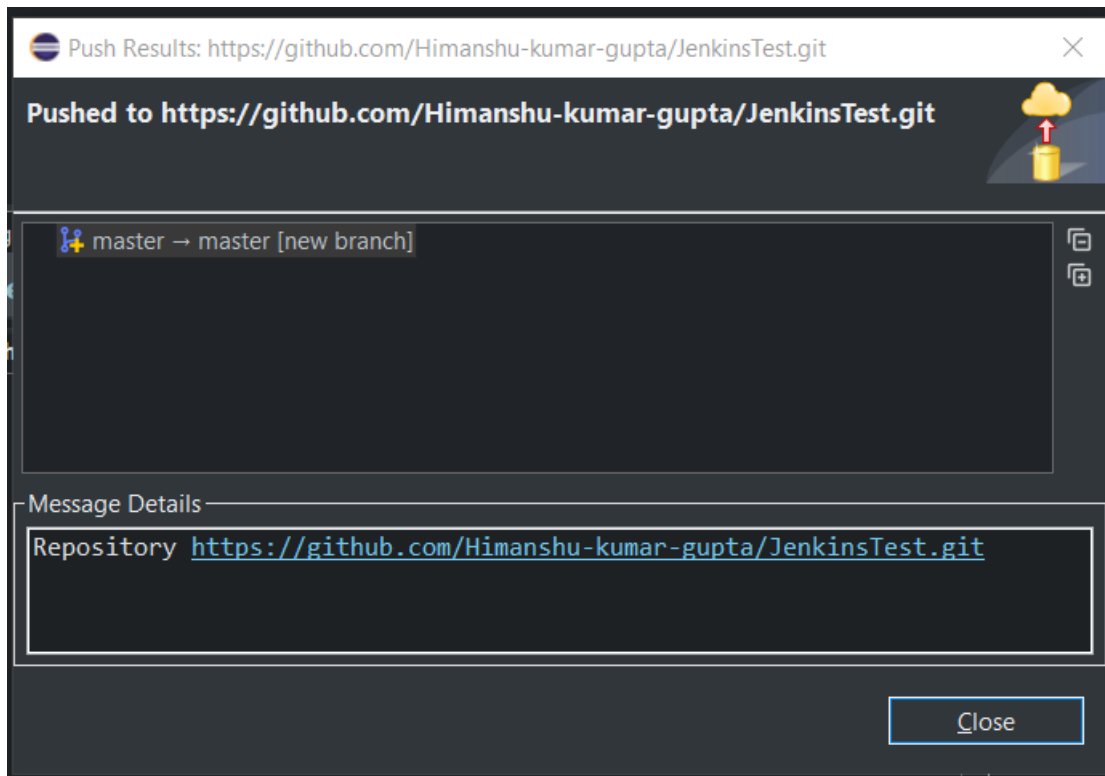
Console

<terminated> Myjenkins [Java Application] C:\Program Files (x86)\eclipse\plugins\org.eclipse.

This project is to test jenkins

- Commit and push the project to a remote Github repository.





- Add git repo url in a jenkins job.

Source Code Management

☐ None
☒ Git

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Additional Behaviours

- Build using compile command in maven project in jenkins job.

Pre Steps

Add pre-build step ▾

Build

Root POM ?

Goals and options ?

Advanced...

Post Steps

☐ Run only if build succeeds
 ☐ Run only if build succeeds or is unstable
 ☒ Run regardless of build result

Should the post-build steps run only for successful builds, etc.

Add post-build step ▾

Build Settings

☐ E-mail Notification

Save Apply

- Output after running the job.

```
C:\Windows\system32\config\systemprofile\AppData\Local\Jenkins\.jenkins\plugins\maven-plugin\WEB-INF\lib\maven3-interce
<===[JENKINS REMOTING CAPACITY]===>channel started
Executing Maven: -B -f C:\Users\Himanshu\git\jenkintest\Jenkintest\pom.xml compile
[INFO] Scanning for projects...
[INFO]
[INFO] -----< golem:Jenkintest >-----
[INFO] Building Jenkintest 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ Jenkintest ---
[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) @ Jenkintest ---
[INFO] Nothing to compile - all classes are up to date
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.133 s
[INFO] Finished at: 2021-02-16T00:27:10+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving C:\Users\Himanshu\git\jenkintest\Jenkintest\pom.xml to golem/Jenkintest/0.0.1-SNAPSHOT/Jenkintest-0.0.1-SNAPSHOT.pom
channel stopped
Finished: SUCCESS
```