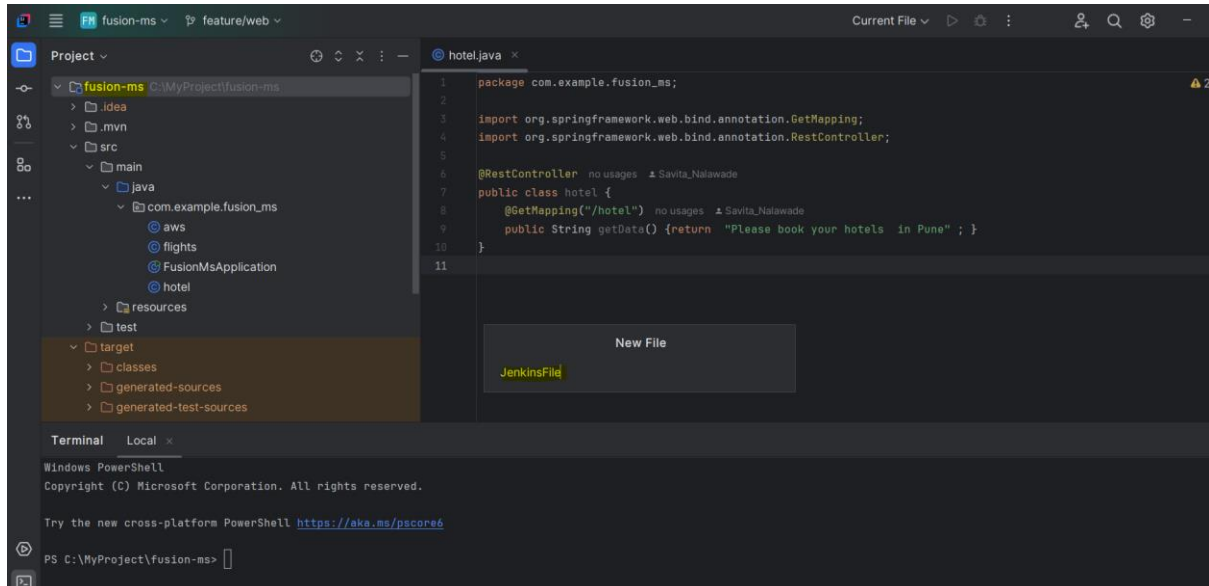
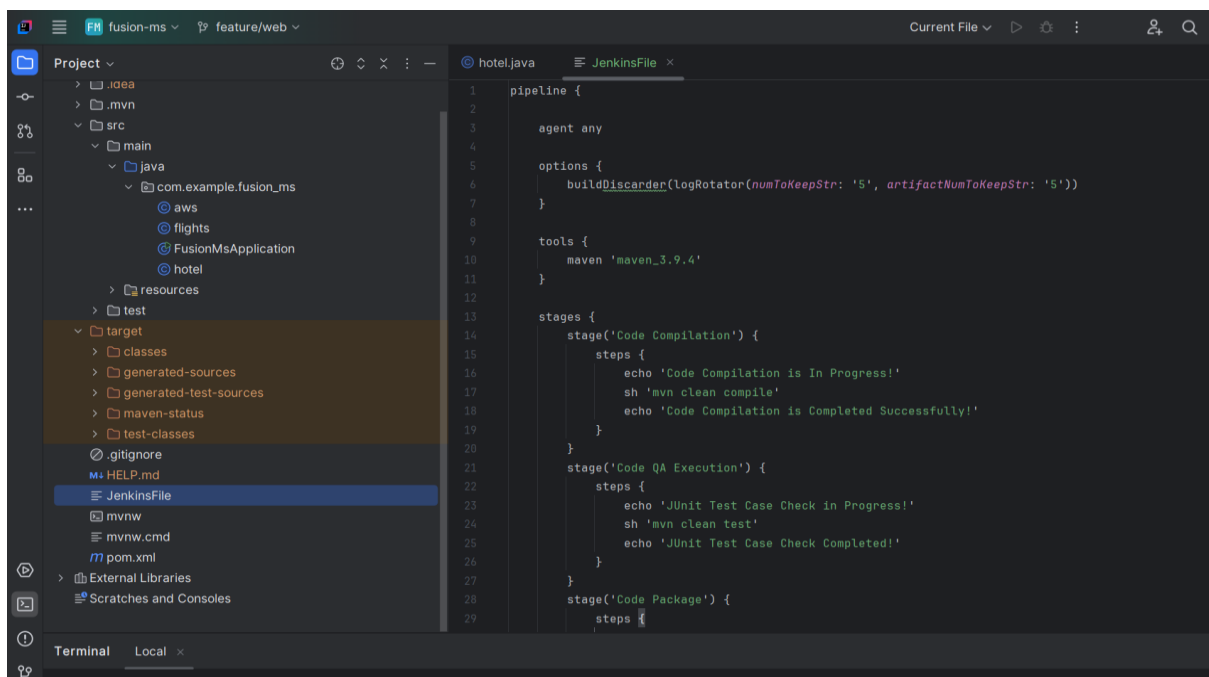


1) Create one normal file(Jenkinsfile) in existed (Fusion_ms) project



2) Enter code



3) Created one new branch from dev (feature/pipe) and push this file to github

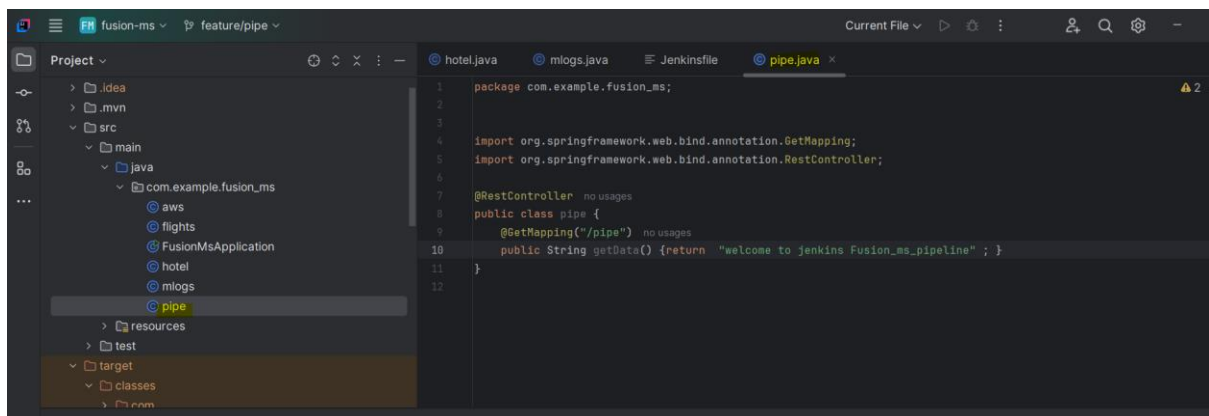
```
Terminal Local x + v
PS C:\MyProject\fusion-ms> git checkout dev
error: Your local changes to the following files would be overwritten by checkout:
    Jenkinsfile
Please commit your changes or stash them before you switch branches.
Aborting
PS C:\MyProject\fusion-ms> git checkout -b feature/pipe
Switched to a new branch 'feature/pipe'
On branch feature/pipe
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Jenkinsfile
        new file:   src/main/java/com/example/fusion_ms/pipe.java

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Jenkinsfile
        modified:   src/main/java/com/example/fusion_ms/pipe.java

PS C:\MyProject\fusion-ms> mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] ----- com.example:fusion-ms -----
[INFO] Building fusion-ms 0.0.1-SNAPSHOT

fusion-ms > src > main > java > com > example > fusion_ms > pipe > getData
```

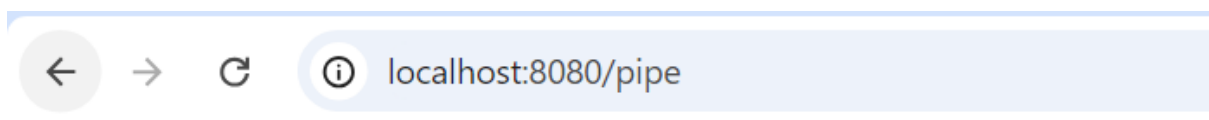
4) Create one class with same name and write some code



The screenshot shows an IDE with the project structure on the left and the code for the 'pipe' class on the right. The project structure includes a 'src/main/java/com/example/fusion_ms' directory with files like 'aws', 'flights', 'FusionMsApplication', 'hotel', 'mlogs', and 'pipe'. The 'pipe' class is highlighted in the project structure. The code for the 'pipe' class is as follows:

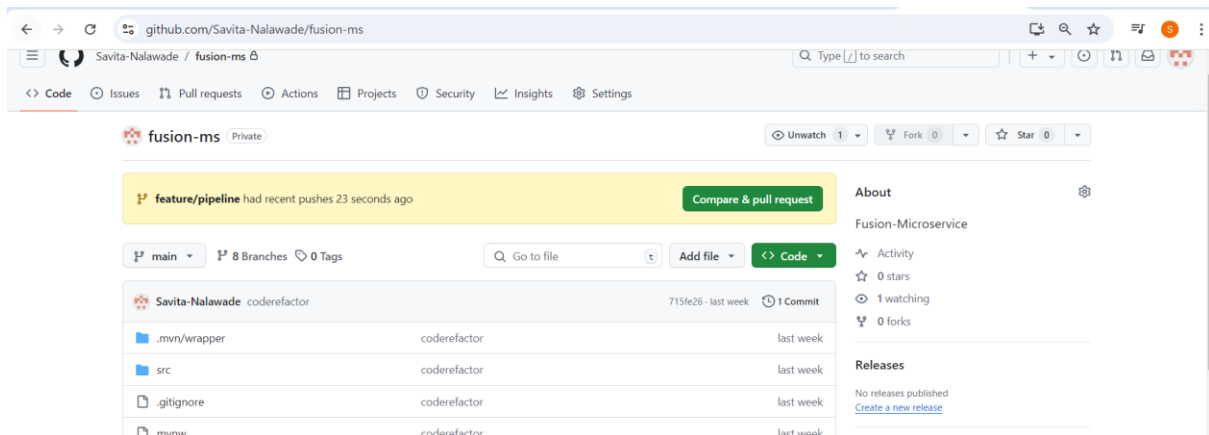
```
1 package com.example.fusion_ms;
2
3
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.RestController;
6
7 @RestController
8 public class pipe {
9     @GetMapping("/pipe")
10    public String getData() {return "welcome to jenkins Fusion_ms_pipeline" ; }
11 }
12
```

5) check output of pipe file

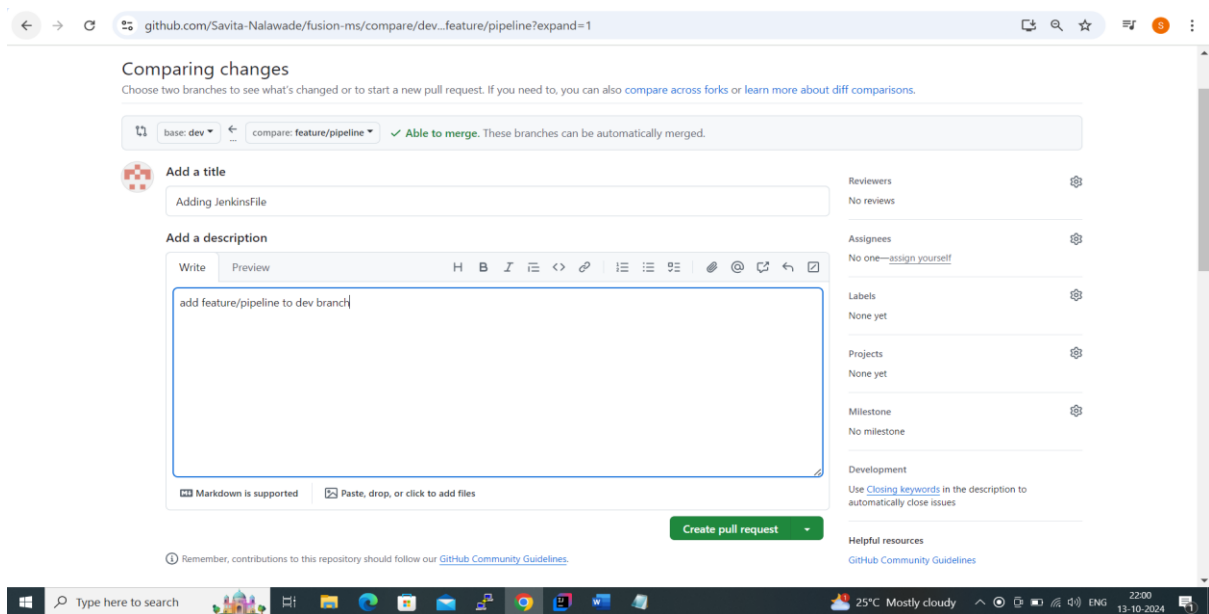


welcome to jenkins pipelines

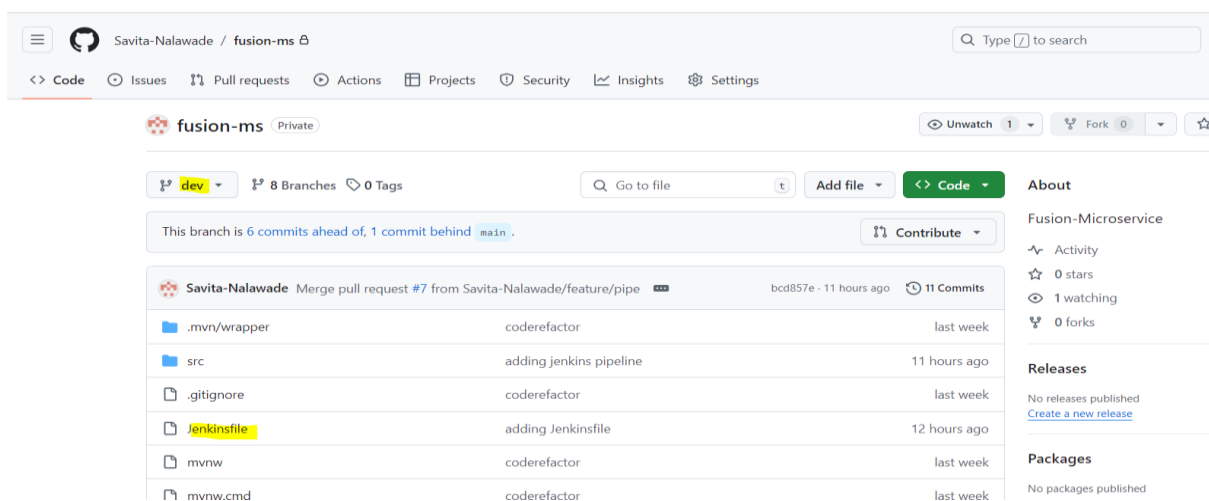
6) compare and pull request to dev branch



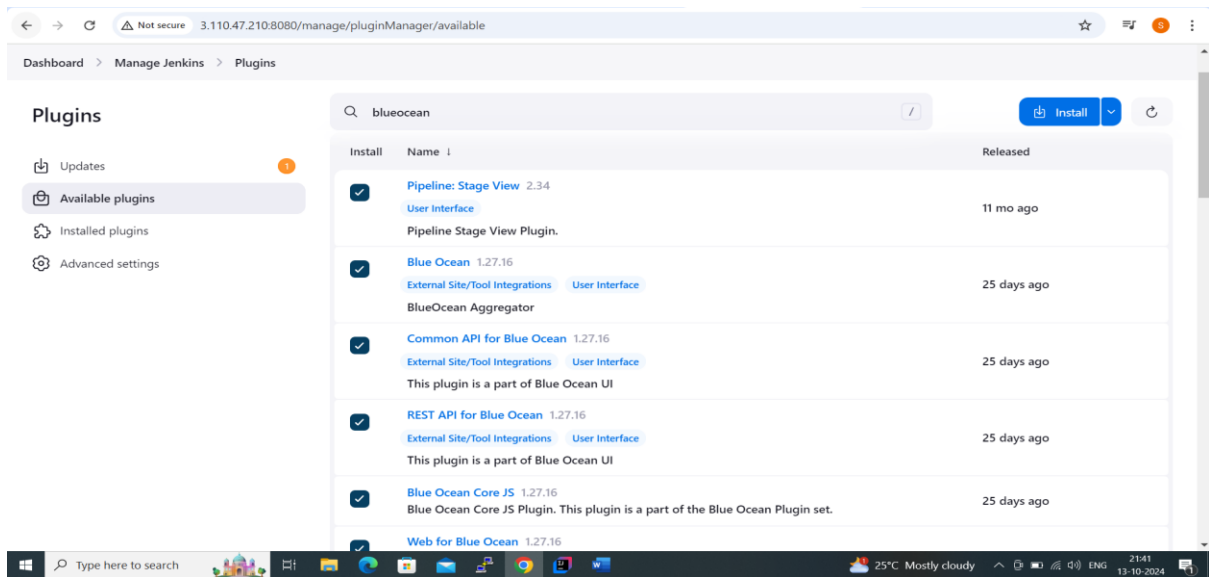
7) Merge branch



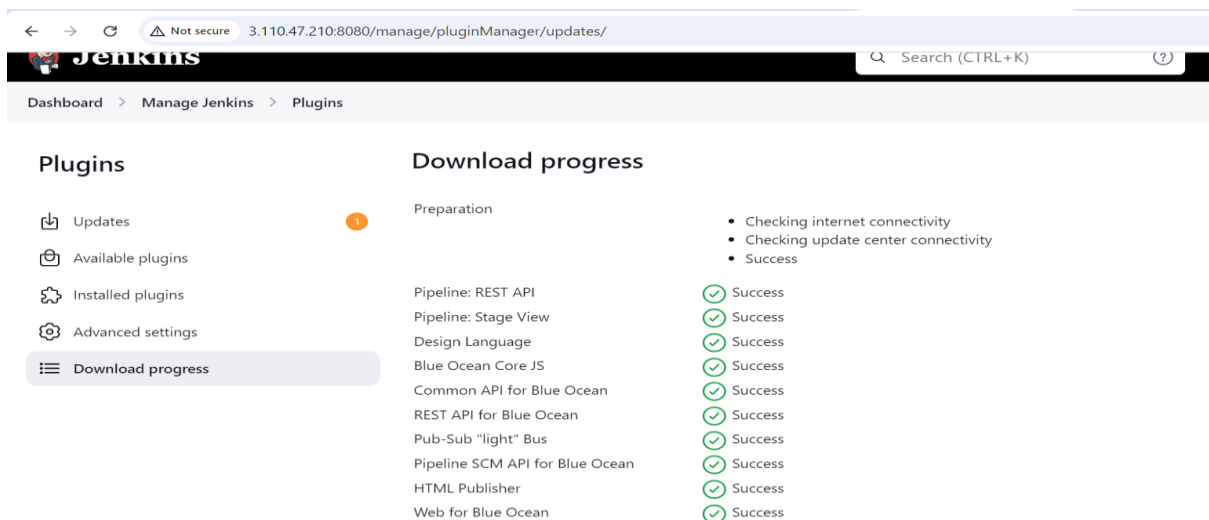
8) Now we can see jenkinsfile in dev branch



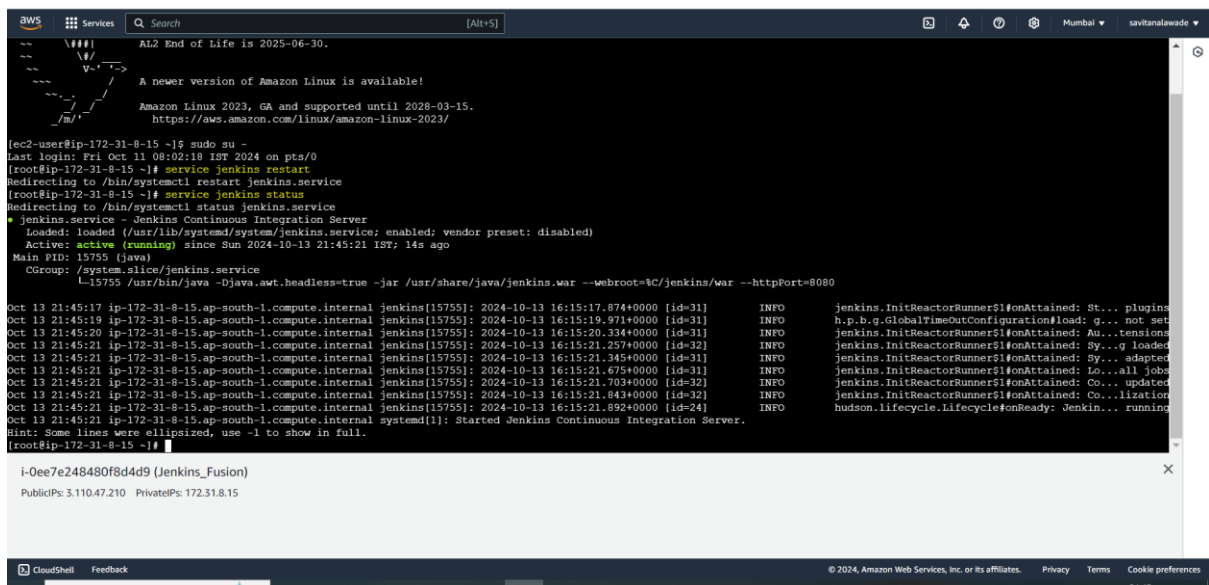
9) Goto Jenkins and try to install some plugins which are related to pipelines



10) Successfully installed Plugins



11) Restart Jenkins



12) Create one Pipeline job

Dashboard > All > New Item

New Item

Enter an item name

Fusion_ms_Pipeline

Select an item type

- Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

13) Select below highlighted to push/download code from github to jenkins

Dashboard > Fusion_ms_Pipeline > Configuration

Configure

- General
- Advanced Project Options
- Pipeline

☐ Build whenever a snapshot dependency is built

☐ Enable Artifactory trigger

☒ GitHub hook trigger for GITScm polling

☐ Poll SCM

☐ Quiet period

☐ Trigger builds remotely (e.g., from scripts)

Advanced Project Options

Advanced

Pipeline

Definition

Pipeline script from SCM

Save Apply

14) Enter github url and add creds if repository is private

Dashboard > Fusion_ms_Pipeline > Configuration

Configure

- General
- Advanced Project Options
- Pipeline

Repository URL

https://github.com/Savita-Nalawade/Fusion_ms.git

Credentials

Savita-Nalawade/mh

+ Add

Advanced

Add Repository

Branches to build

Branch Specifier (blank for 'any')

*/dev

Add Branch

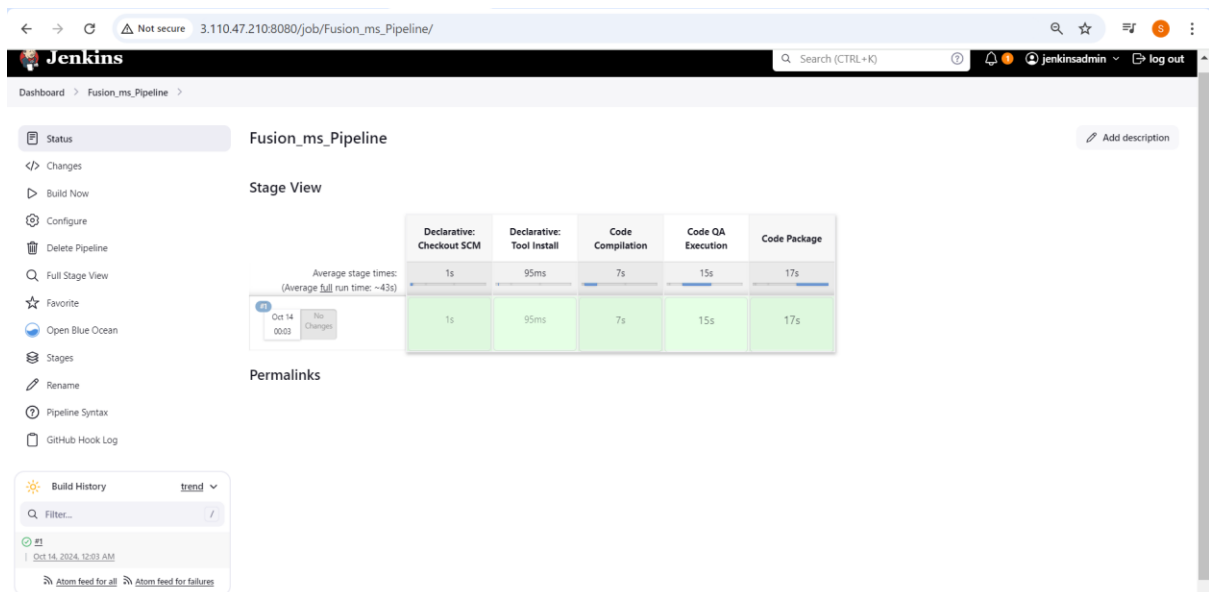
Repository browser

(Auto)

Additional Behaviours

Save Apply

15) do some changes in code and push code in dev branch



Dashboard > Fusion_ms_Pipeline > #1

Console Output

```
Started by user jenkinsadmin
Obtained Jenkinsfile from git https://github.com/Savita-Malawade/fusion-ms.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Fusion_ms_Pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
The recommended git tool is: NONE
using credential Savita-Malawade
Cloning the remote git repository
Cloning repository https://github.com/Savita-Malawade/fusion-ms.git
> /usr/bin/git init /var/lib/jenkins/workspace/Fusion_ms_Pipeline # timeout=10
Fetching upstream changes from https://github.com/Savita-Malawade/fusion-ms.git
> /usr/bin/git --version # timeout=10
> git --version # "git version 2.48.1"
using GIT_ASKPASS to set credentials
> /usr/bin/git fetch --tags --force --progress -- https://github.com/Savita-Malawade/fusion-ms.git # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/Savita-Malawade/fusion-ms.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse origin/dev^{commit} # timeout=10
Checking out Revision bcd857e8a3f9e2576078061f9557e03180f120b5 (origin/dev)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f bcd857e8a3f9e2576078061f9557e03180f120b5 # timeout=10
Commit message: "Merge pull request #7 from Savita-Malawade/feature/pipe"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] f
```

23°C Mostly cloudy 00:06 16-10-2024

Thank You!!!!