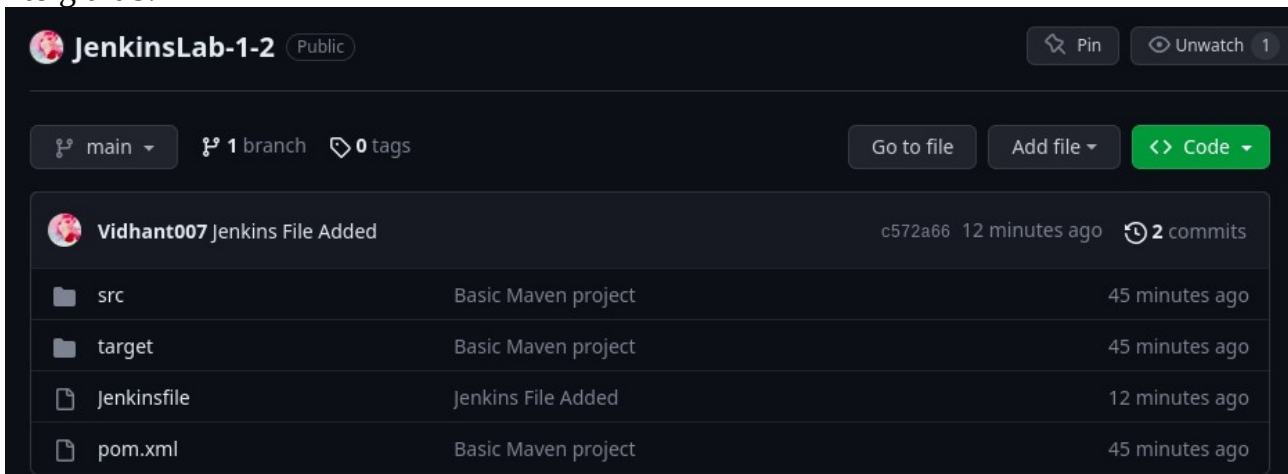


Experiment -2 (Creating a Jenkins Pipeline with a Jenkins File)

Objective: Create a Jenkins pipeline using a jenkinsfile that builds a simple project, runs tests, and deploys the project to a designed environment.

1. Create a simple maven Project (the same one used in Experiment -1) and push the project to github.



2. Create a Jenkins file and push it to github repo (in the root dir)

Note : the following jenkins file includes stages associated with maven project


```
pipeline {
  agent any
  tools {
    maven 'MAVEN_HOME'
  }
  stages {
    stage('Stage 1 : Clean Stage'){
      steps{
        sh 'mvn clean'
      }
    }
    stage('Stage 2 : test Stage'){
      steps{
        sh 'mvn test'
      }
    }
    stage('Stage 3 : Install stage'){
      steps{
        sh 'mvn install'
      }
    }
    stage('Stage Final : Build Sucess'){
      steps{
        echo 'Build Sucessfull'
      }
    }
  }
}
```


3. Create a Jenkins Pipeline


Enter an item name

CICD-lab2

» Required field

 **Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM used for something other than software build.

 **Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduce

 **Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for b workflows) and/or organizing complex activities that do not easily fit in free-style job t

CONFIGURATION :

4. Select the Github CheckBox and provide the github repo Link

☒ **GitHub project**

Project url ?

https://github.com/Vidhant007/JenkinsLab-1-2/

Advanced ▾

5. Select build Trigger

☒ **Poll SCM** ?

Schedule ?

6. Select pipeline Script from SCM (git) and provide Github repo url.

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/Vidhant007/JenkinsLab-1-2

7. Provide the Jenkinsfile path (path in the repo) in the Script Path.

Script Path ?

Jenkinsfile

☒ **Lightweight checkout** ?

8. Now if we make any changes to the Github repo and push it , it will trigger a new pipeline build.

Stage View



Permalinks