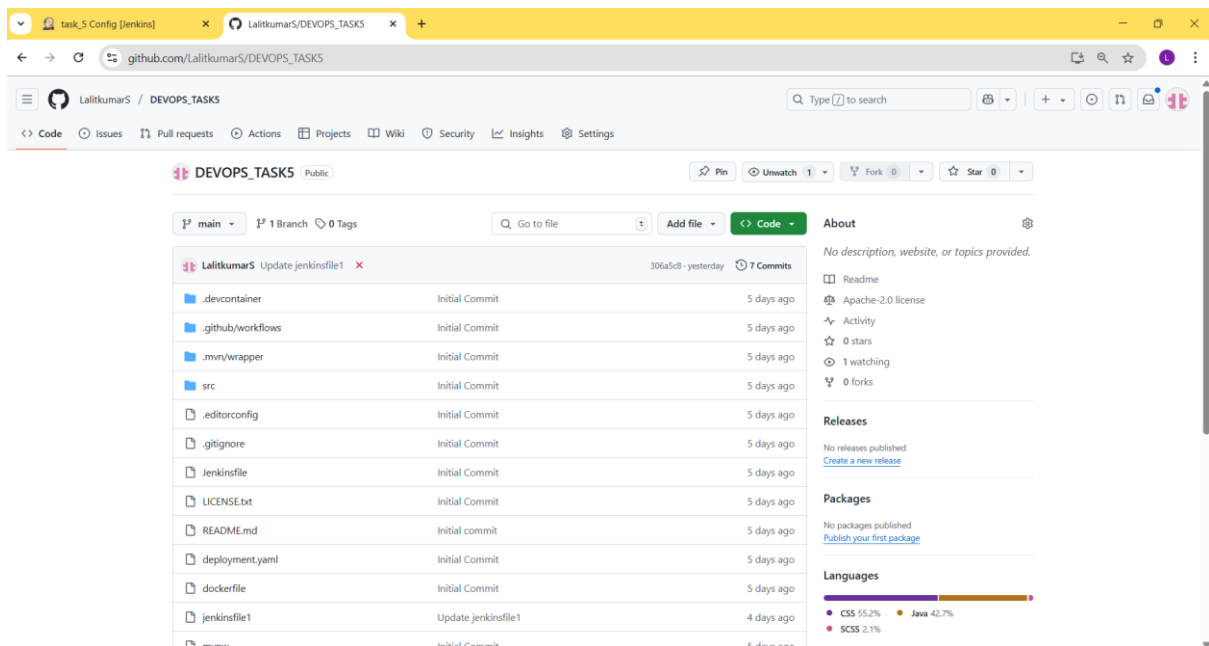Github Clone:

Add the tool:

Name: Maven 3.9.6

Maven path :/opt/maven

After Build add the scripted Pipeline:

```
pipeline {

  agent any


  environment {

    DOCKER_IMAGE = "lalitkumars/maven_task"

    DOCKER_TAG = "latest"

    DOCKER_CREDENTIALS_ID = "docker"

    GITHUB_CREDENTIALS_ID = "github_seccred"

    KUBECONFIG = "/var/lib/jenkins/.kube/config"

  }
```

```
stages {

    stage('Checkout Code') {

        steps {

            git branch: 'main', credentialsId: 'github_seccred', url:
'https://github.com/LalitkumarS/DEVOPS_TASK5'

        }

    }


    stage('Build Application') {

        steps {

            script {

                sh '${MAVEN_HOME}/bin/mvn clean package -DskipTests'

            }

        }

    }


    stage('Run Maven Tests') {

        steps {

            script {

                try {

                    sh 'mvn test'

                } catch (Exception e) {

                    echo "Tests failed, but proceeding..."

                }

            }

        }
```

```
        }

        stage('Build Docker Image') {

            steps {

                script {

                    sh "docker build -t ${DOCKER_IMAGE}:${DOCKER_TAG} ."

                }

            }

        }


        stage('Push Docker Image') {

            steps {

                withDockerRegistry([credentialsId: DOCKER_CREDENTIALS_ID, url: '']) {

                    sh "docker push ${DOCKER_IMAGE}:${DOCKER_TAG}"

                }

            }

        }


        // stage('Deploy to Kubernetes') {

        //     steps {

        //         script {

        //             sh '''

        //                 chmod +x scripts/deploy.sh

        //                 ./scripts/deploy.sh

        //             '''

        //         }
```

```
    //    }

    // }

  }


  post {

    success {

      echo "Deployment Successful!"

    }

    failure {

      echo "Deployment Failed!"

    }

  }

}
```

```
4b7c01ed0534: Waiting
49cb1bc2daeb: Layer already exists
6fbdf02a6a33: Layer already exists
5f70bf18a086: Layer already exists
f844dcf94898: Layer already exists
39cf0ac89a5a: Layer already exists
4e5b554b7345: Layer already exists
3359bc3d7a6a: Layer already exists
4b7c01ed0534: Layer already exists
4428bce3421c: Pushed
latest: digest: sha256:a5e70a63ffb88b011928bd5f6ed6ca2a4b04f64ea08980c6da1769fac05b2e1a size: 2413
[Pipeline] }
[Pipeline] // withDockerRegistry
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Deployment Successful!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

REST API   Jenkins 2.492.2

Jenkins   🔍   ⊘❶   ⊙ Lalitkumar ∨   ⤷ log out

Dashboard > task_5 > #7

🗐 Status
</> Changes
⌨ Console Output
☑ Edit Build Information
🗑 Delete build '#7'
⏱ Timings
◈ Git Build Data
⅄ Pipeline Overview
⌨ Pipeline Console
↻ Restart from Stage
↪ Replay
☰ Pipeline Steps
🗀 Workspaces

✓ **#7 (Mar 26, 2025, 3:40:22 PM)**   ✎ Add description   Keep this build forever

⏱ Started by user Lalitkumar   Started 22 min ago
                                                           Took 3 min 0 sec

⏲ This run spent:
   • 96 ms waiting;
   • 3 min 0 sec build duration;
   • 3 min 0 sec total from scheduled to completion.

◈ git   **Revision:** 306a5c88a62d1948d7eb6fee0c9dff8ec72c9164
        Repository: https://github.com/LalitkumarS/DEVOPS_TASK5
        • refs/remotes/origin/main

</> No changes.

REST API   Jenkins 2.492.2

TERMINAL:

OUTPUT: