DAY 2 -- JENKINS PIPELINE
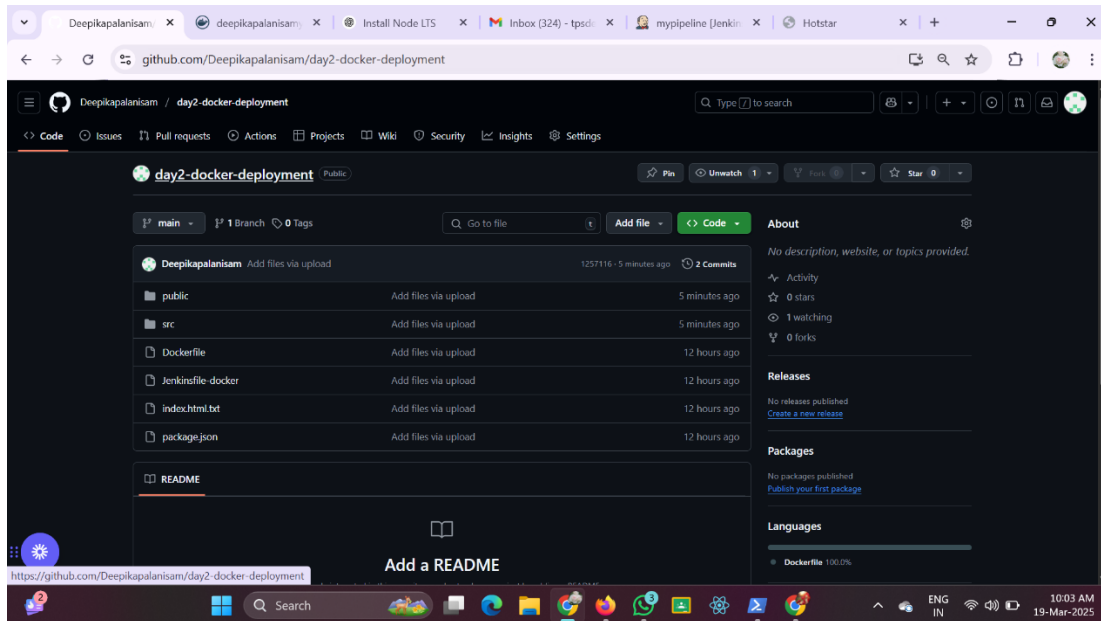

Fig 1 Github repository
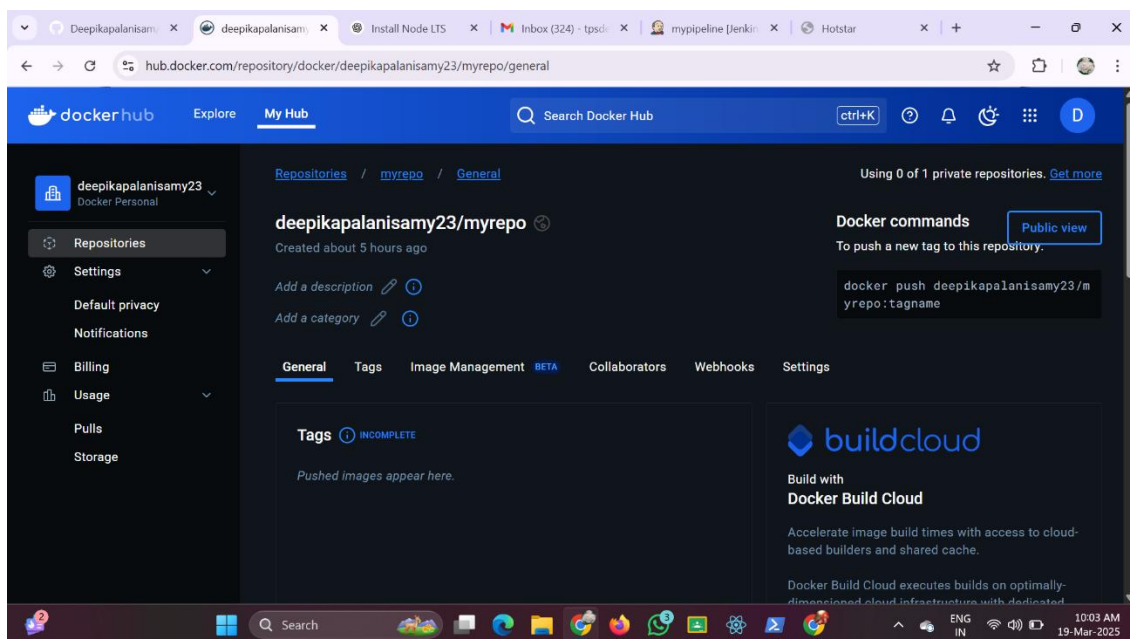

Fig 2 Docker Repository

PIPELINE SCRIPT

```
pipeline {

  agent any

  tools {

    jdk 'jdk17'

    nodejs 'node20'

  }


  stages {

    stage('Clean Workspace') {

      steps {

        script {

          echo "Cleaning workspace..."

          deleteDir()

        }

      }

    }


    stage('Git Checkout') {

      steps {

        script {

          git branch: 'main',

            credentialsId: 'github_seccred',

            url: 'https://github.com/Deepikapalanisam/day2-docker-deployment.git'

        }

      }

    }

    stage('Install Node') {

      steps {

        script {

          sh '''
```

```
                    if [ -f package.json ]; then

                        echo "package.json found. Running npm install..."

                        npm install

                    else

                        echo "ERROR: package.json is missing. Skipping npm install."

                        exit 1

                    fi

                    '''

            }
        }
    }


    stage('Docker Build & Push') {

        steps {

            script {

                withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {

                    def imageName = "deepikapalanisamy23/myrepo"

                    def tag = "latest"


                    sh "docker build -t ${imageName} ."

                    sh "docker tag ${imageName} ${imageName}:${tag}"

                    sh "docker push ${imageName}:${tag}"

                }

            }

        }

    }

    stage('Deploy Docker Container') {

        steps {

            script {

                sh "docker stop jusjes_container || true"

                sh "docker rm jusjes_container || true"
```

```
                    sh "docker run -d --name jusjes_container -p 3001:3000
deepikapalanisamy23/myrepo:latest"

                }

            }

        }

    }
```
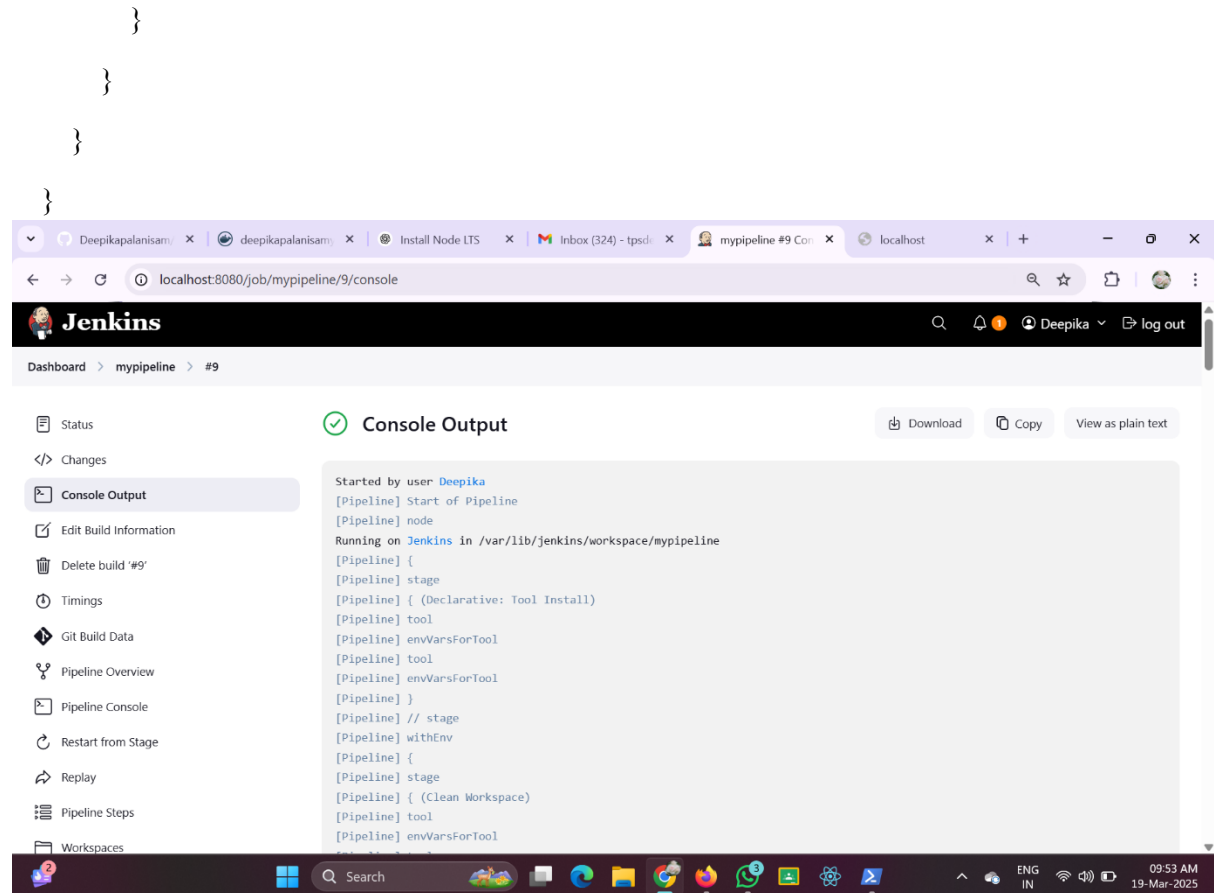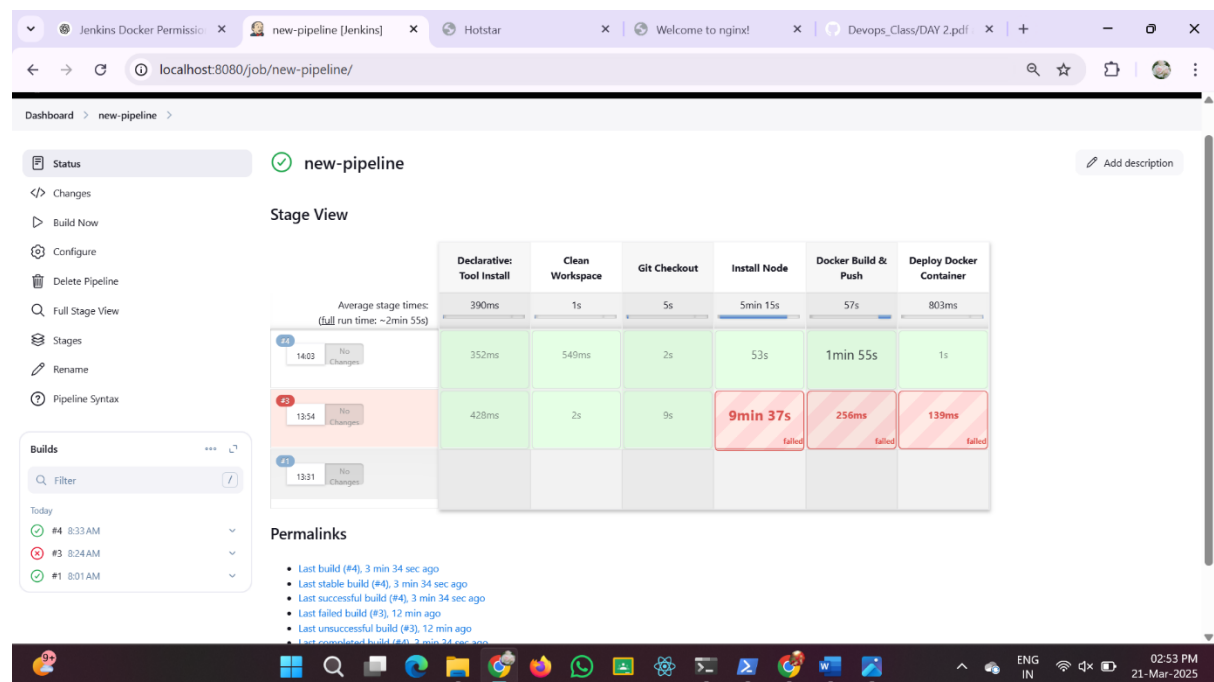
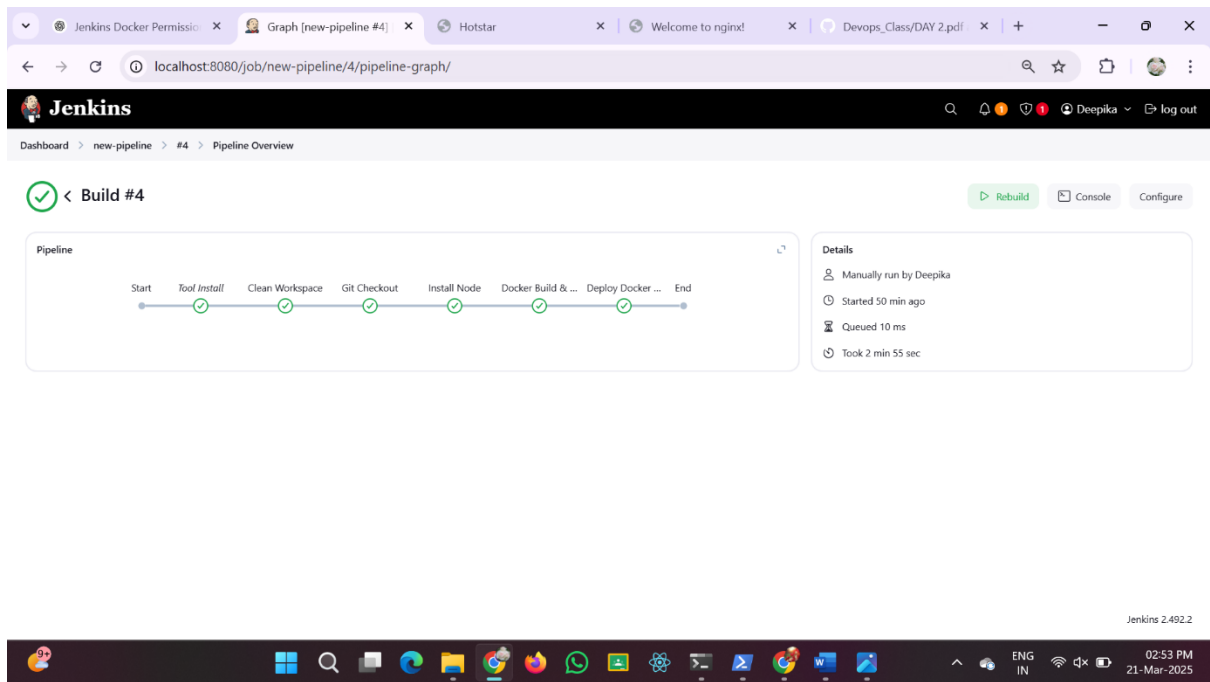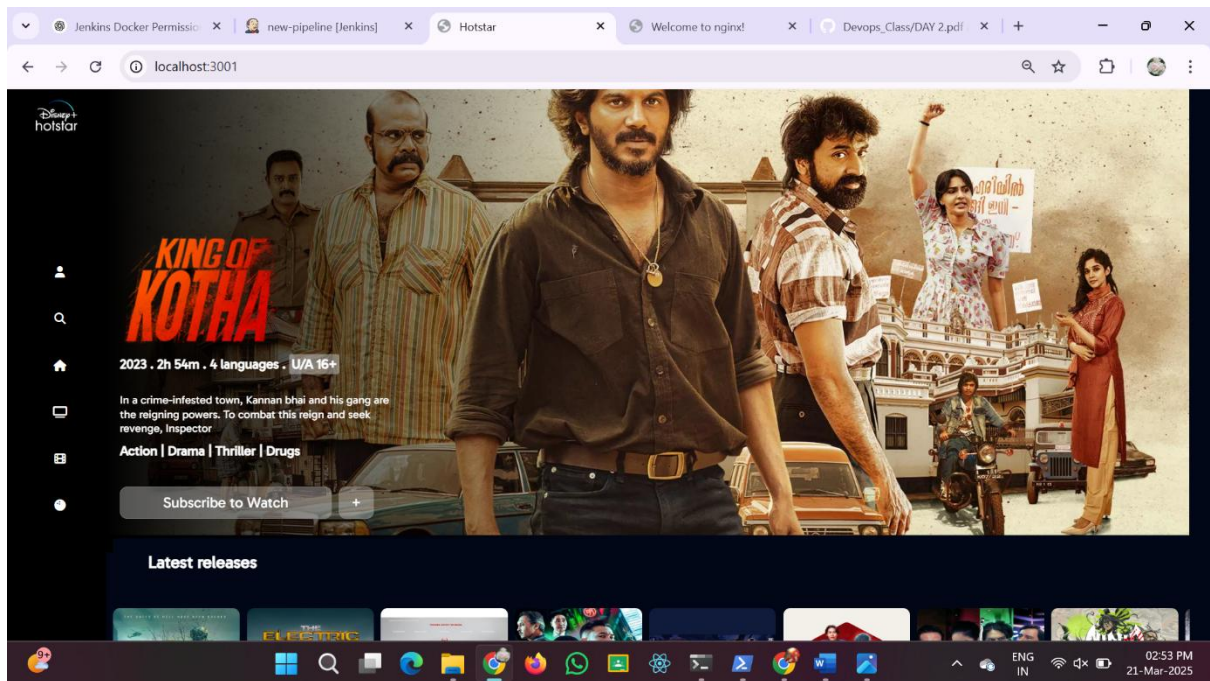

Fig 3 Console output

Fig 4 Pipeline stage view

Fig 5 Pipeline overview

Fig 6 Final Output(localhost:3001)