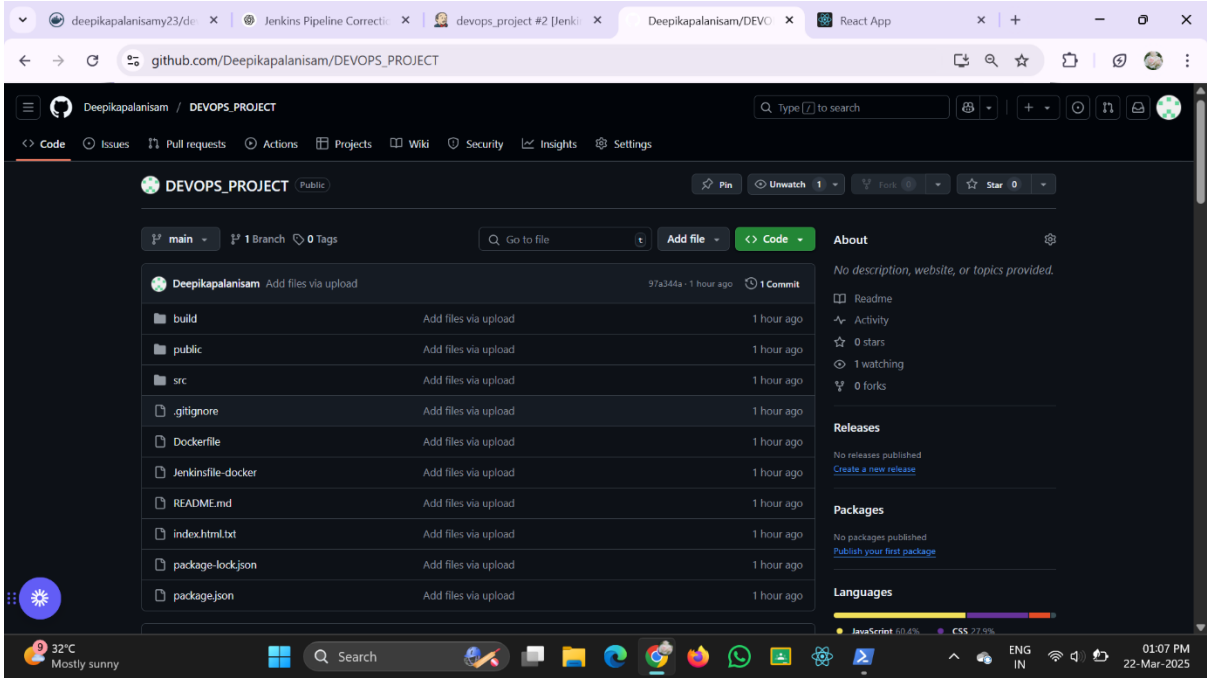
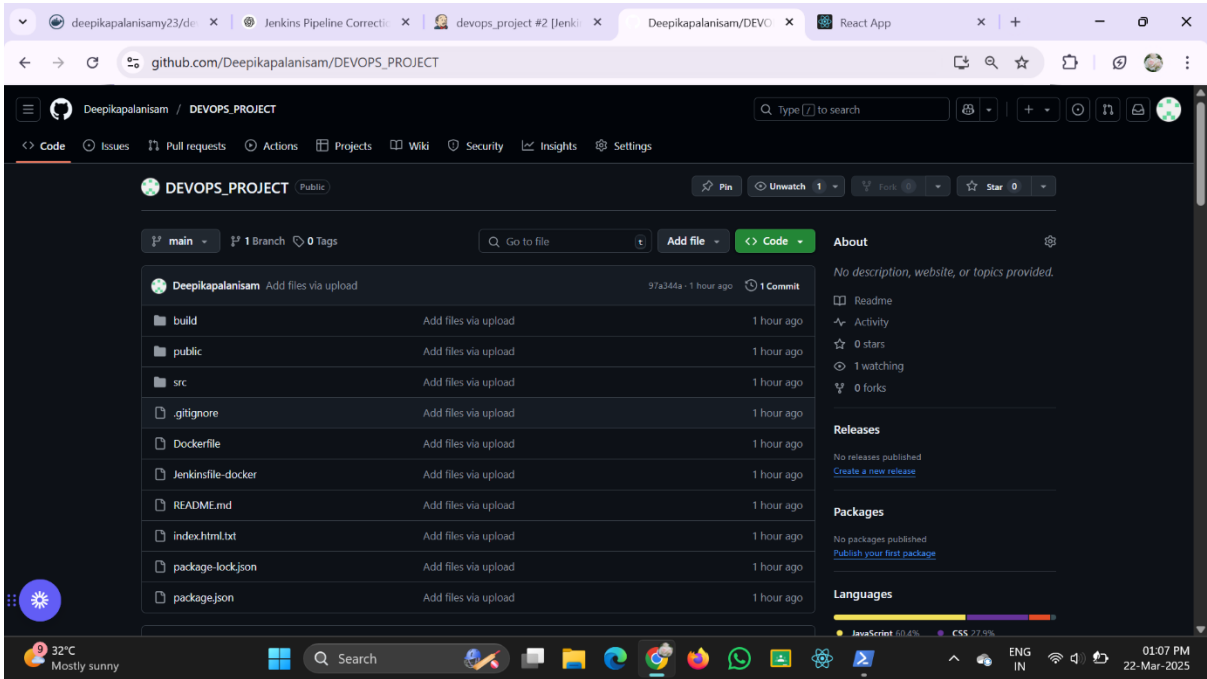


FINAL PROJECT-REACT COUNTER APPLICATION

Git Repository



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/DEVOPS_PROJECT.git'
```

$$\left. \begin{array}{l} \} \\ \} \\ \} \end{array} \right\}$$

```
stage('Install Node Dependencies') {
    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/devops_project"
```

```
def tag = "latest"

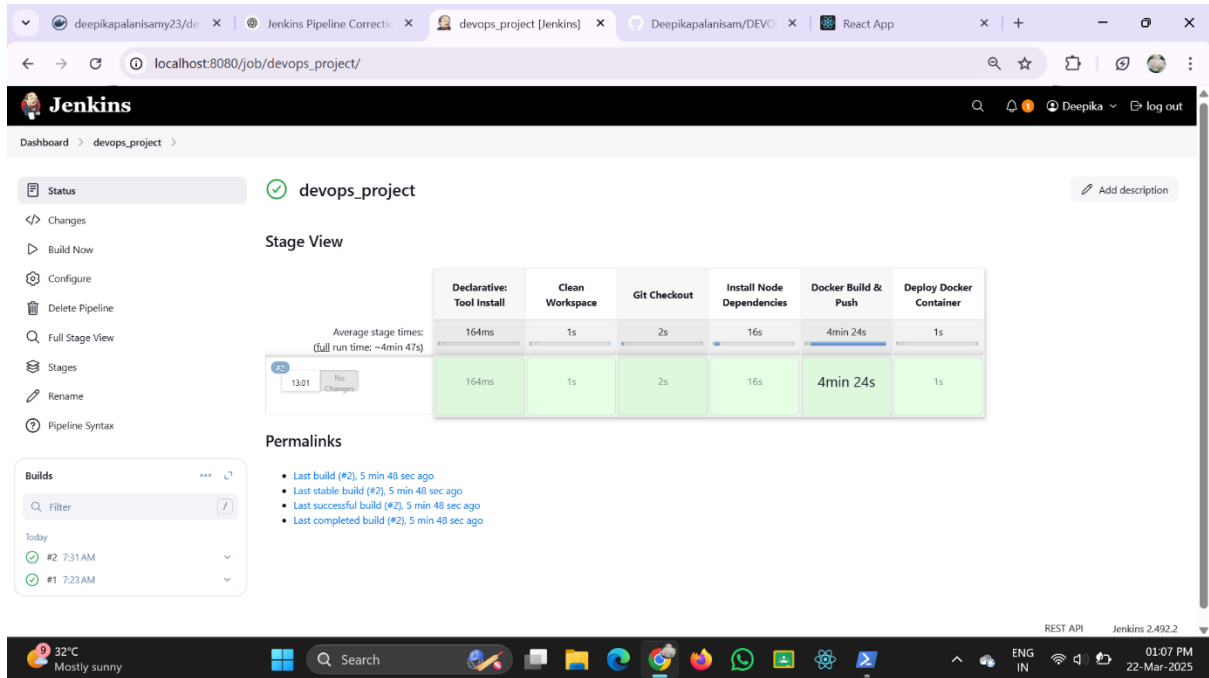
echo "Building Docker image..."
sh "docker build -t ${imageName}:${tag} ."

echo "Pushing Docker image..."
sh "docker push ${imageName}:${tag}"
}
}
}
}

stage('Deploy Docker Container') {
  steps {
    script {
      echo "Stopping and removing any existing container..."
      sh "docker stop counter || true"
      sh "docker rm counter || true"

      echo "Running new container..."
      sh "docker run -d --name counter -p 3002:3000
deepikapalanisamy23/devops_project:latest"
    }
  }
}
```

Pipeline Build

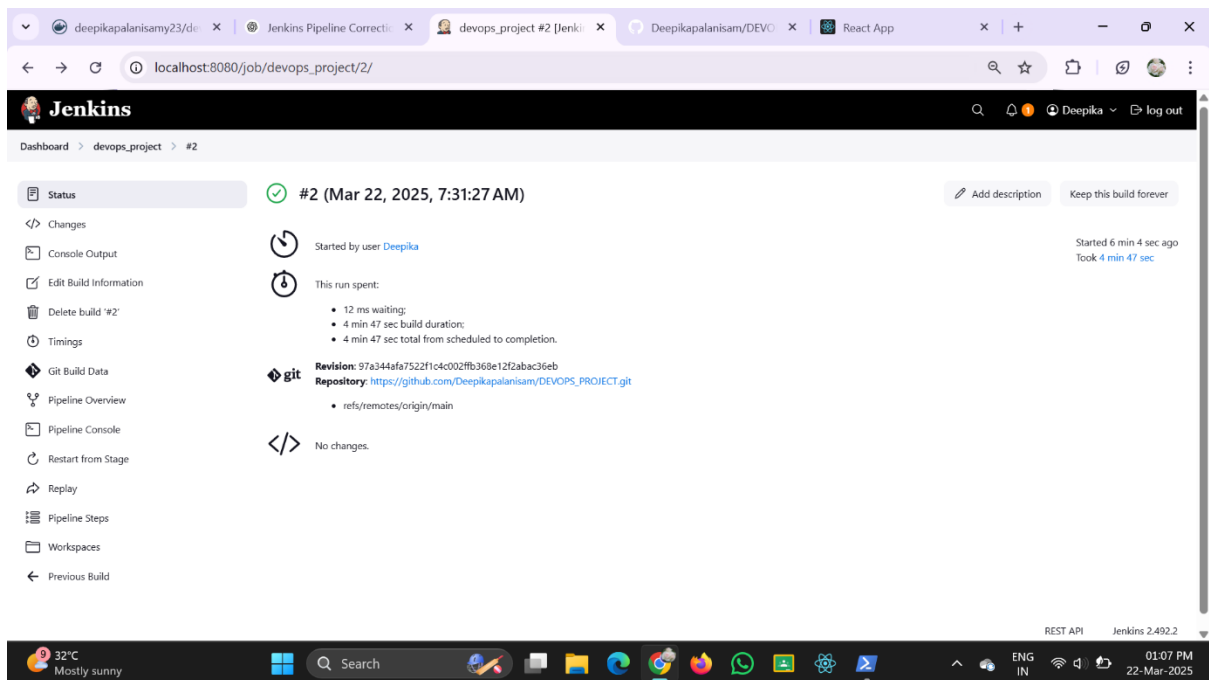


The screenshot shows the Jenkins web interface for a pipeline named 'devops_project'. The browser address bar indicates the URL is 'localhost:8080/job/devops_project/'. The Jenkins dashboard on the left includes links for Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Stages, Rename, and Pipeline Syntax. The main area displays the 'Stage View' for the pipeline, showing a table of stages and their durations. The stages are: Declarative: Tool Install (164ms), Clean Workspace (1s), Git Checkout (2s), Install Node Dependencies (16s), Docker Build & Push (4min 24s), and Deploy Docker Container (1s). The average stage time is 13.01s, and the full run time is approximately 4 minutes and 47 seconds. Below the stage view, there are permalinks for the last build (#2), last stable build (#2), last successful build (#2), and last completed build (#2), all of which occurred 5 minutes and 48 seconds ago. The bottom of the screenshot shows a Windows taskbar with a weather widget indicating 32°C and mostly sunny, and a system clock showing 01:07 PM on 22-Mar-2025.

Stage	Declarative: Tool Install	Clean Workspace	Git Checkout	Install Node Dependencies	Docker Build & Push	Deploy Docker Container
Average stage times: (full run time: ~4min 47s)	164ms	1s	2s	16s	4min 24s	1s

Permalinks

- Last build (#2), 5 min 48 sec ago
- Last stable build (#2), 5 min 48 sec ago
- Last successful build (#2), 5 min 48 sec ago
- Last completed build (#2), 5 min 48 sec ago



The screenshot shows the Jenkins web interface for a specific build of the pipeline, labeled '#2 (Mar 22, 2025, 7:31:27 AM)'. The browser address bar indicates the URL is 'localhost:8080/job/devops_project/2/'. The Jenkins dashboard on the left includes links for Status, Changes, Console Output, Edit Build Information, Delete build '#2', Timings, Git Build Data, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, Workspaces, and Previous Build. The main area displays the build details for build #2, including the status (successful), the user who started the build (Deepika), and the revision (97a344afa7522f1c4c002fb368e12f2abac36eb). The repository is listed as 'https://github.com/Deepikapalanisam/DEVOPS_PROJECT.git'. The build took 4 minutes and 47 seconds to complete. The bottom of the screenshot shows a Windows taskbar with a weather widget indicating 32°C and mostly sunny, and a system clock showing 01:07 PM on 22-Mar-2025.

#2 (Mar 22, 2025, 7:31:27 AM)

Started by user Deepika

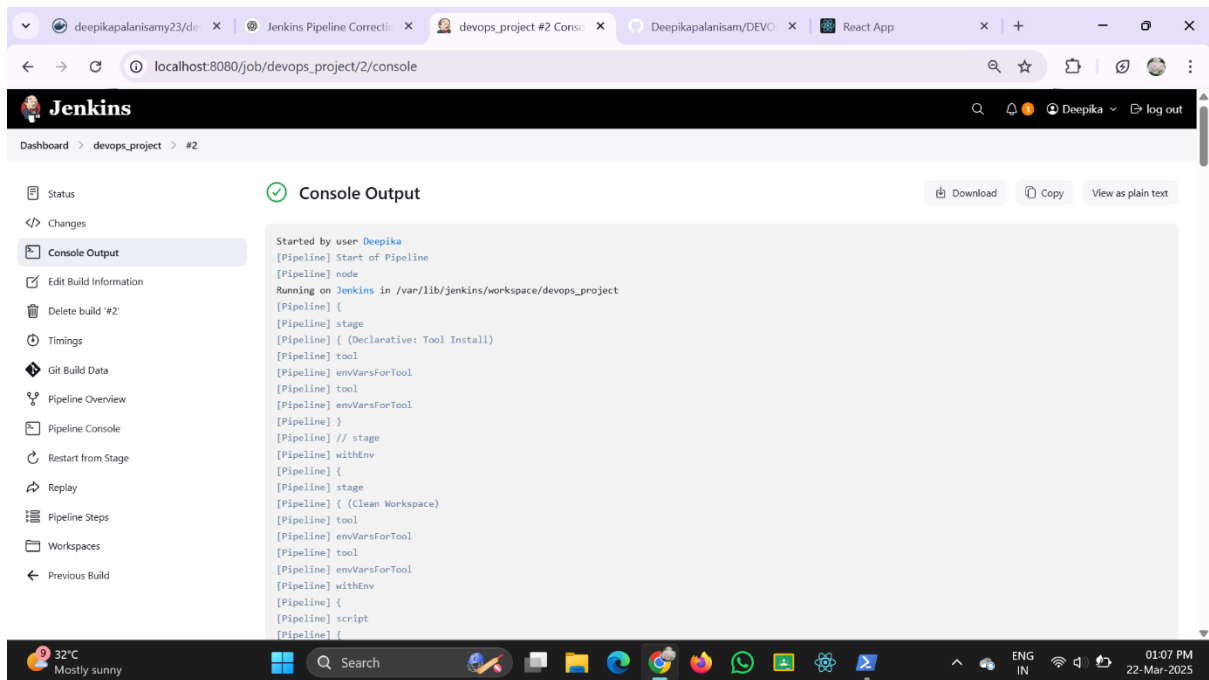
This run spent:

- 12 ms waiting;
- 4 min 47 sec build duration;
- 4 min 47 sec total from scheduled to completion.

Revision: 97a344afa7522f1c4c002fb368e12f2abac36eb
Repository: https://github.com/Deepikapalanisam/DEVOPS_PROJECT.git
refs/remotes/origin/main

No changes.

Console Output

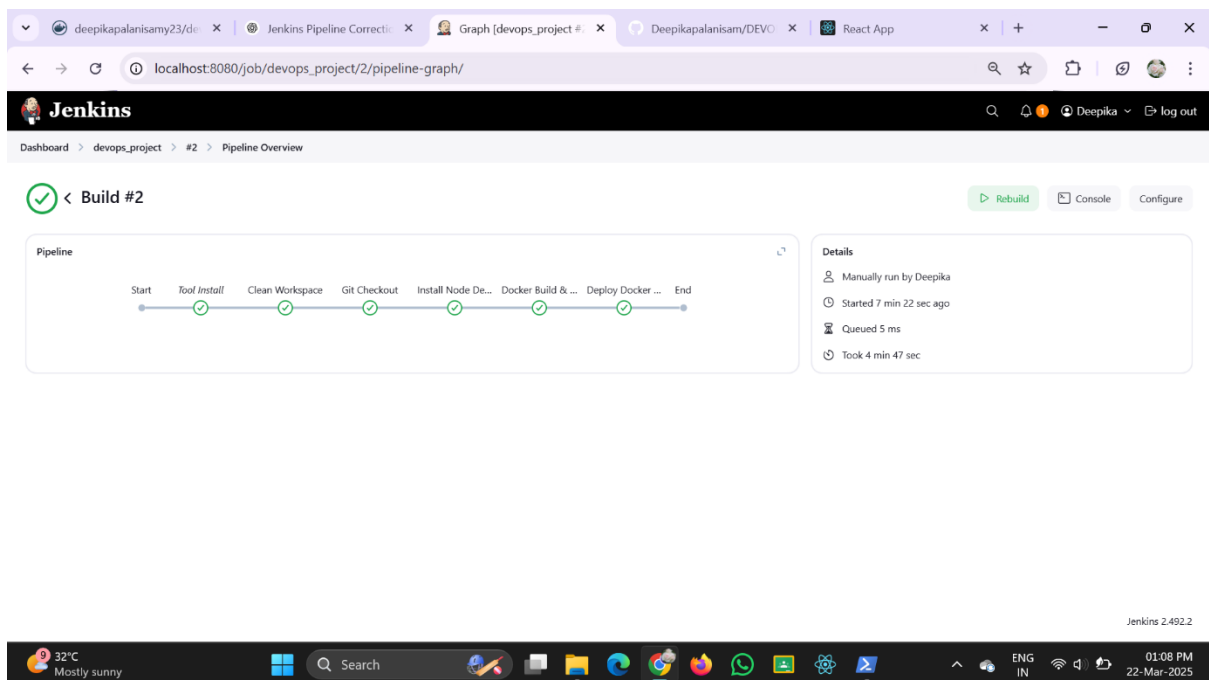


The screenshot shows the Jenkins web interface at localhost:8080/job/devops_project/2/console. The left sidebar contains navigation links: Status, Changes, Console Output (selected), Edit Build Information, Delete build '#2', Timings, Git Build Data, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, Workspaces, and Previous Build. The main area displays the console output for Build #2, which is a declarative pipeline. The output text is as follows:

```
Started by user Deepika
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/devops_project
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clean Workspace)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] script
[Pipeline] }
```

At the bottom of the console output area, there are buttons for Download, Copy, and View as plain text. The bottom of the browser window shows a Windows taskbar with the date 22-Mar-2025 and time 01:07 PM.

Pipeline overview



The screenshot shows the Jenkins Pipeline Overview for Build #2 at localhost:8080/job/devops_project/2/pipeline-graph/. The left sidebar is the same as in the previous screenshot. The main area displays a visual representation of the pipeline stages. The stages are: Start, Tool Install, Clean Workspace, Git Checkout, Install Node De..., Docker Build & ..., and Deploy Docker ... End. All stages are marked with a green checkmark, indicating they completed successfully. To the right of the pipeline graph is a 'Details' box containing the following information:

- Manually run by Deepika
- Started 7 min 22 sec ago
- Queued 5 ms
- Took 4 min 47 sec

At the top right of the main area, there are buttons for Rebuild, Console, and Configure. The bottom of the browser window shows a Windows taskbar with the date 22-Mar-2025 and time 01:08 PM.

Output

