

## GITHUB:

The screenshot shows the GitHub repository page for 'task\_final' by user 'LalitikumarS'. The repository is public and has 6 commits. The file list includes: public, src, .gitignore, Dockerfile, Jenkinsfile-docker, README.md, index.html.txt, package-lock.json, package.json, and tailwind.config.js. The right sidebar shows the repository's activity, including stars, forks, and releases. The 'Languages' section shows the following distribution: JavaScript 40.5%, HTML 31.6%, CSS 17.1%, and Dockerfile 10.8%.

File	Commit Message	Commit Time
public	Initialize project using Create React App	5 months ago
src	Initial commit	3 days ago
.gitignore	Initialize project using Create React App	5 months ago
Dockerfile	Add files via upload	3 days ago
Jenkinsfile-docker	Update Jenkinsfile-docker	yesterday
README.md	Add files via upload	3 days ago
index.html.txt	Add files via upload	3 days ago
package-lock.json	Initialize project using Create React App	5 months ago
package.json	Add files via upload	3 days ago
tailwind.config.js	Initial commit	3 days ago

## BUILD:

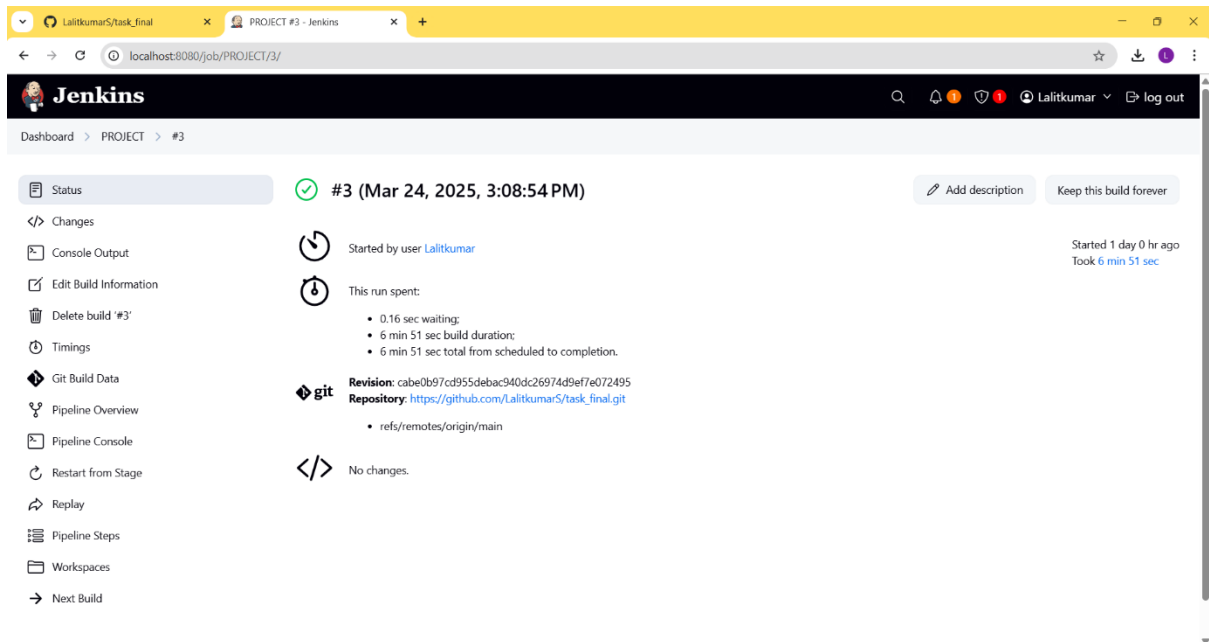
The screenshot shows the Jenkins dashboard for the 'PROJECT' pipeline. The pipeline is in a 'Success' state. The 'Stage View' shows the following stages and their durations:

Stage	Clone Repository	Install Dependencies	Build Docker Image	Run Docker Container	Declarative: Post Actions
25	3s	14s	3min 47s	7s	457ms
2231	4s	16s	1min 18s	2s	434ms
25	2s	11s	6min 15s	11s	480ms

The 'Permalinks' section shows the following links:

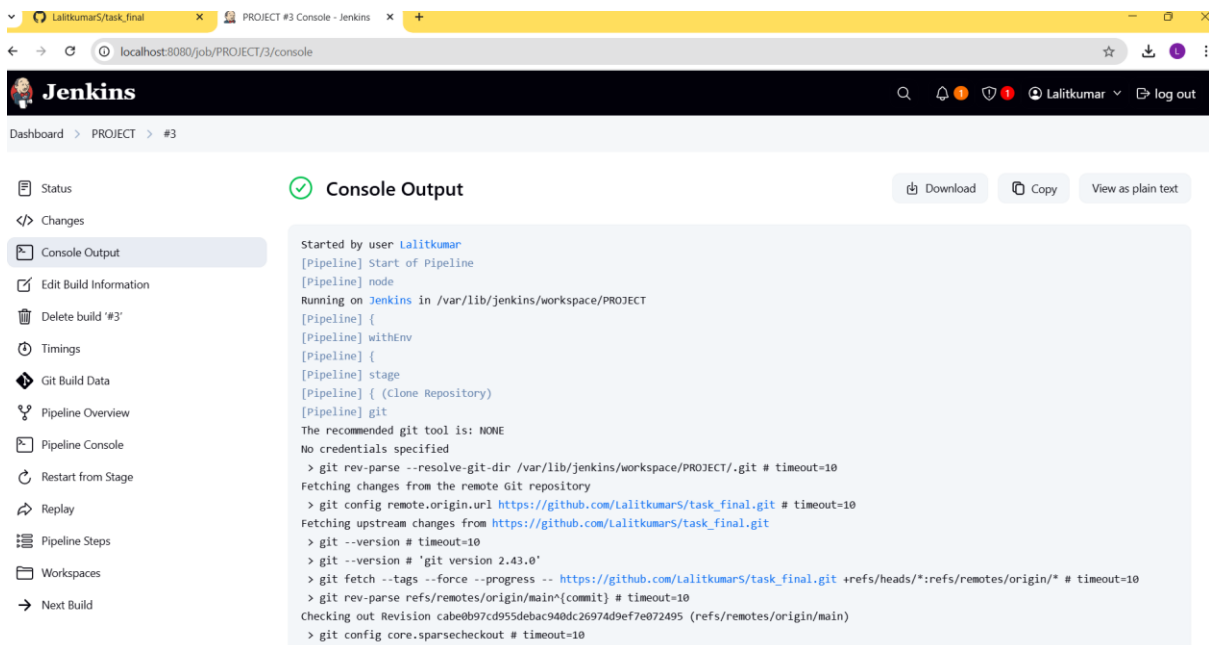
- Last build (#5), 22 hr ago
- Last stable build (#5), 22 hr ago
- Last successful build (#5), 22 hr ago
- Last completed build (#5), 22 hr ago

## STATUS:



The screenshot shows the Jenkins web interface for a build named "#3 (Mar 24, 2025, 3:08:54 PM)". The left sidebar contains a list of navigation links: Status, Changes, Console Output, Edit Build Information, Delete build '#3', Timings, Git Build Data, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, Workspaces, and Next Build. The main content area displays the build status as a green checkmark. It includes a "Started by user Lalitkumar" message and a "This run spent:" section with a list of durations: 0.16 sec waiting, 6 min 51 sec build duration, and 6 min 51 sec total from scheduled to completion. Below this, the "Revision" is shown as "cabe0b97cd955deba940dc26974d9ef7e072495" and the "Repository" as "https://github.com/LalitkumarS/task\_final.git". A "git" icon is present, and the "No changes" message is displayed. On the right, there are buttons for "Add description" and "Keep this build forever", along with a timestamp "Started 1 day 0 hr ago" and "Took 6 min 51 sec".

## CONSOLE OUTPUT:



The screenshot shows the Jenkins web interface for the console output of build "#3". The left sidebar is identical to the previous screenshot. The main content area displays the console output with a green checkmark and the title "Console Output". There are buttons for "Download", "Copy", and "View as plain text". The console output text is as follows:

```
started by user Lalitkumar
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/PROJECT
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clone Repository)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/PROJECT/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/LalitkumarS/task_final.git # timeout=10
Fetching upstream changes from https://github.com/LalitkumarS/task_final.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/LalitkumarS/task_final.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision cabe0b97cd955deba940dc26974d9ef7e072495 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
```

## **DOCKERFILE:**

**# Use Node.js Alpine base image**

**FROM node:alpine**

**# Create and set the working directory inside the container**

**WORKDIR /app**

**# Copy package.json and package-lock.json to the working directory**

**COPY package.json package-lock.json /app/**

**# Install dependencies**

**RUN npm install**

**# Copy the entire codebase to the working directory**

**COPY . /app/**

**# Expose the port your app runs on (replace <PORT\_NUMBER> with your app's actual port)**

**EXPOSE 6420**

**# Define the command to start your application (replace "start" with the actual command to start your app)**

**CMD ["npm", "start"]**

**JENKINS FILE:**

```
pipeline {
    agent any

    environment {
        IMAGE_NAME = "lalitkumars/final_task"
        CONTAINER_NAME = "devops-react-app"
        PORT = "6420"
    }

    stages {
        stage('Clone Repository') {
            steps {
                git branch: 'main', url: 'https://github.com/LalitkumarS/task_final.git'
            }
        }

        stage('Install Dependencies') {
            steps {
                script {
                    sh 'node --version'
                    sh 'npm install'
                }
            }
        }

        stage('Build Docker Image') {
            steps {
                script {
                    sh 'docker --version'
```

```

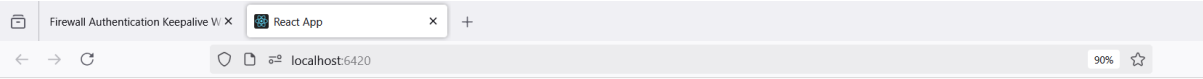
        sh 'docker build -t $IMAGE_NAME .'
    }
}

stage('Run Docker Container') {
    steps {
        script {
            sh '''
                docker stop $CONTAINER_NAME || true
                docker rm $CONTAINER_NAME || true
                lsof -i:$PORT || true
                docker run -d --name $CONTAINER_NAME -p $PORT:80 $IMAGE_NAME
            '''
        }
    }
}

post {
    success {
        echo '🚀 Deployment successful! Visit http://localhost:6420'
    }
    failure {
        echo '❌ Deployment failed. Check logs.'
    }
}
}

```

PROJECT OUTPUT:

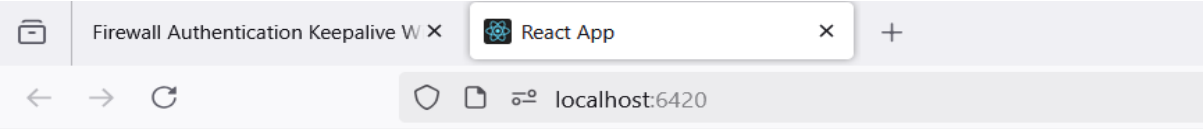


🌟 To-Do List 🌟

Dark Mode

Enter a new task... Add

No tasks yet. Add some!



🌟 To-Do List 🌟

Dark Mode

Enter a new task... Add

- TO GROW TREES X
- WAKE UP EARLY X
- WORK HARD X

Clear All Tasks



🌟 To-Do List 🌟

Dark Mode

Enter a new task... Add

- WAKE UP EARLY X

Clear All Tasks