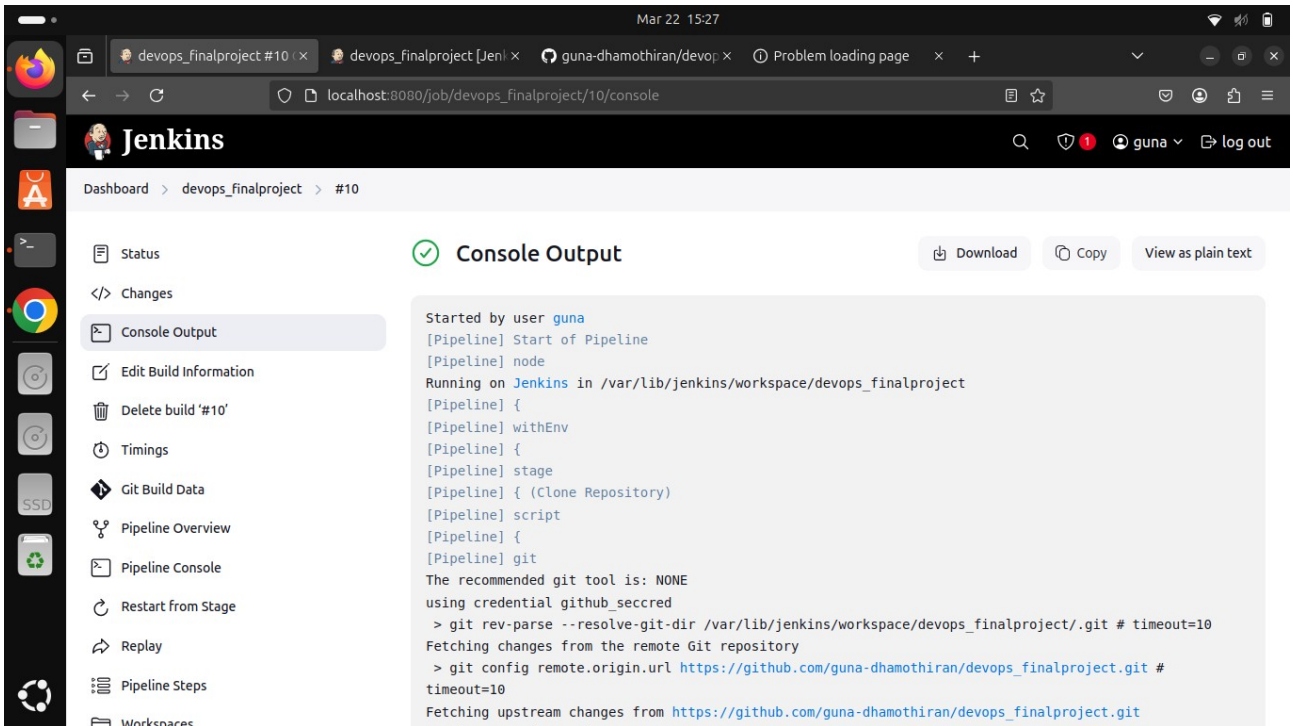


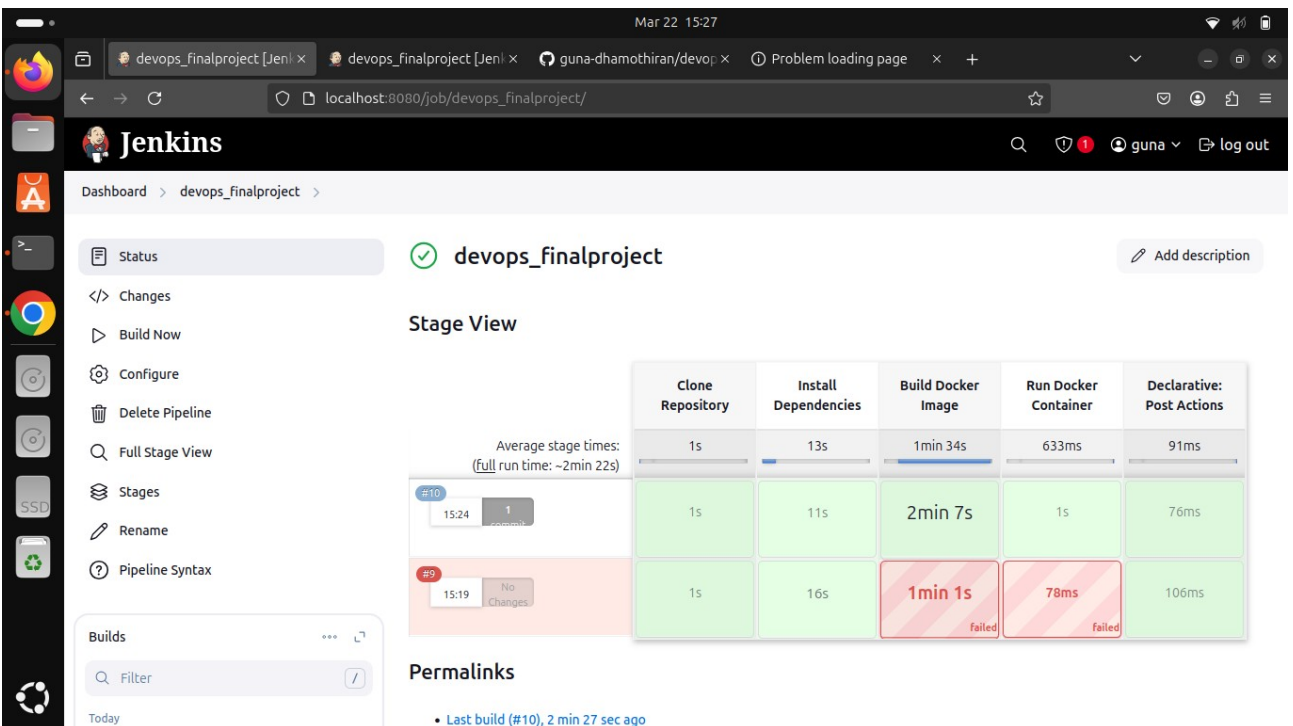
Devops_Final_project

Github link: https://github.com/guna-dhamothiran/guna_devopstask



The screenshot shows the Jenkins web interface for build #10 of the 'devops_finalproject'. The 'Console Output' tab is selected, displaying the execution log. The log shows the pipeline starting with a 'node' step, followed by a 'stage' step that clones the repository from GitHub. The output includes the command to fetch changes and the URL of the repository.

```
Started by user guna
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/devops_finalproject
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clone Repository)
[Pipeline] script
[Pipeline] {
[Pipeline] git
The recommended git tool is: NONE
using credential github_secured
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/devops_finalproject/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/guna-dhamothiran/devops_finalproject.git #
timeout=10
Fetching upstream changes from https://github.com/guna-dhamothiran/devops_finalproject.git
```

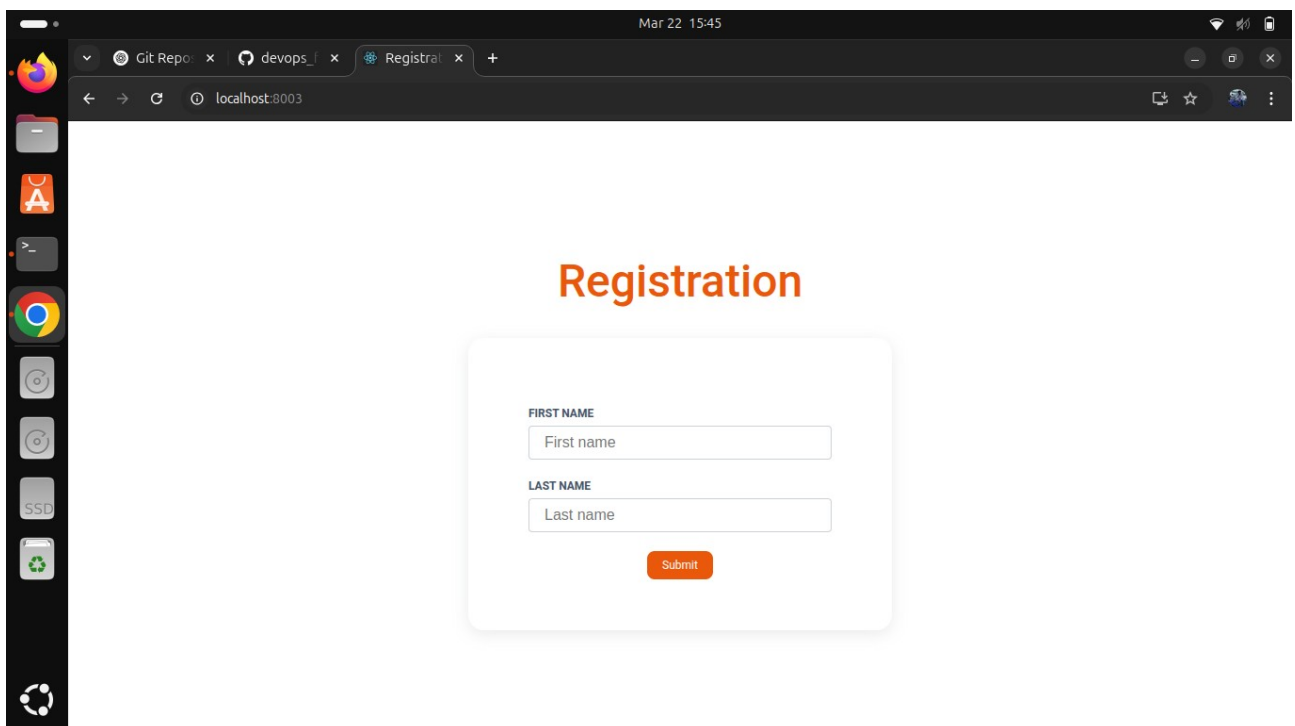
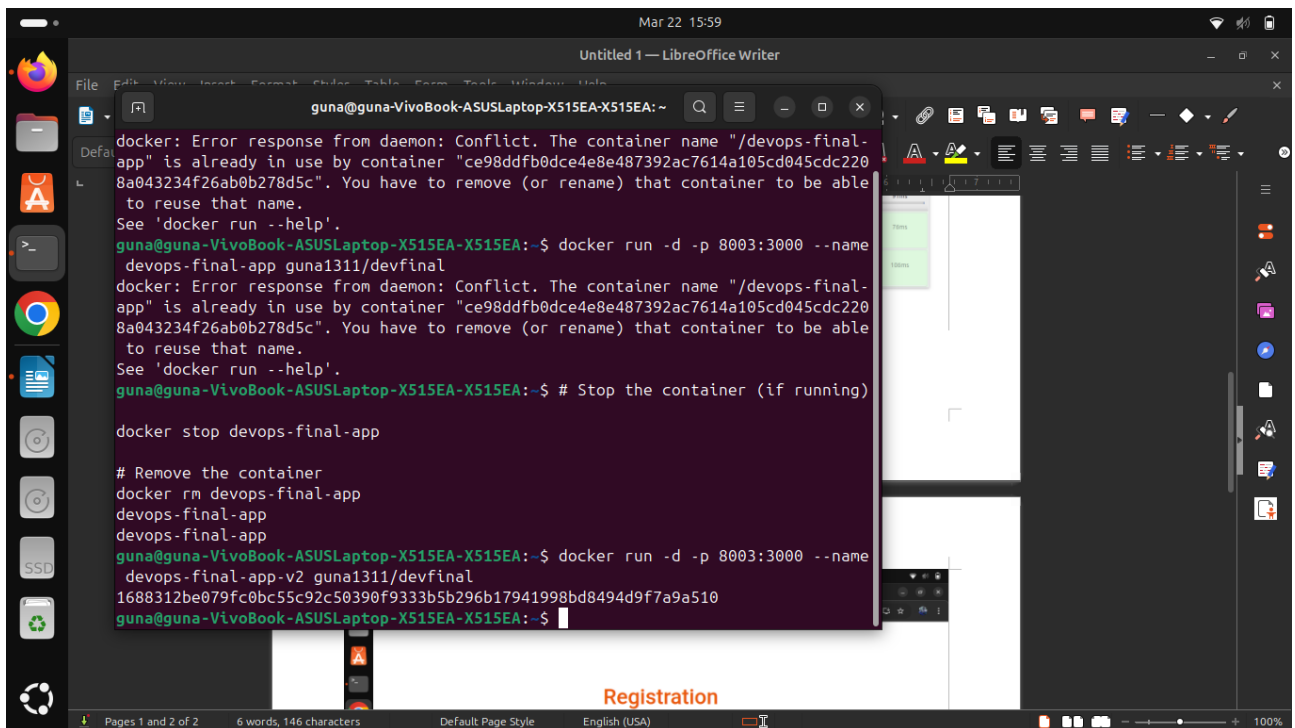


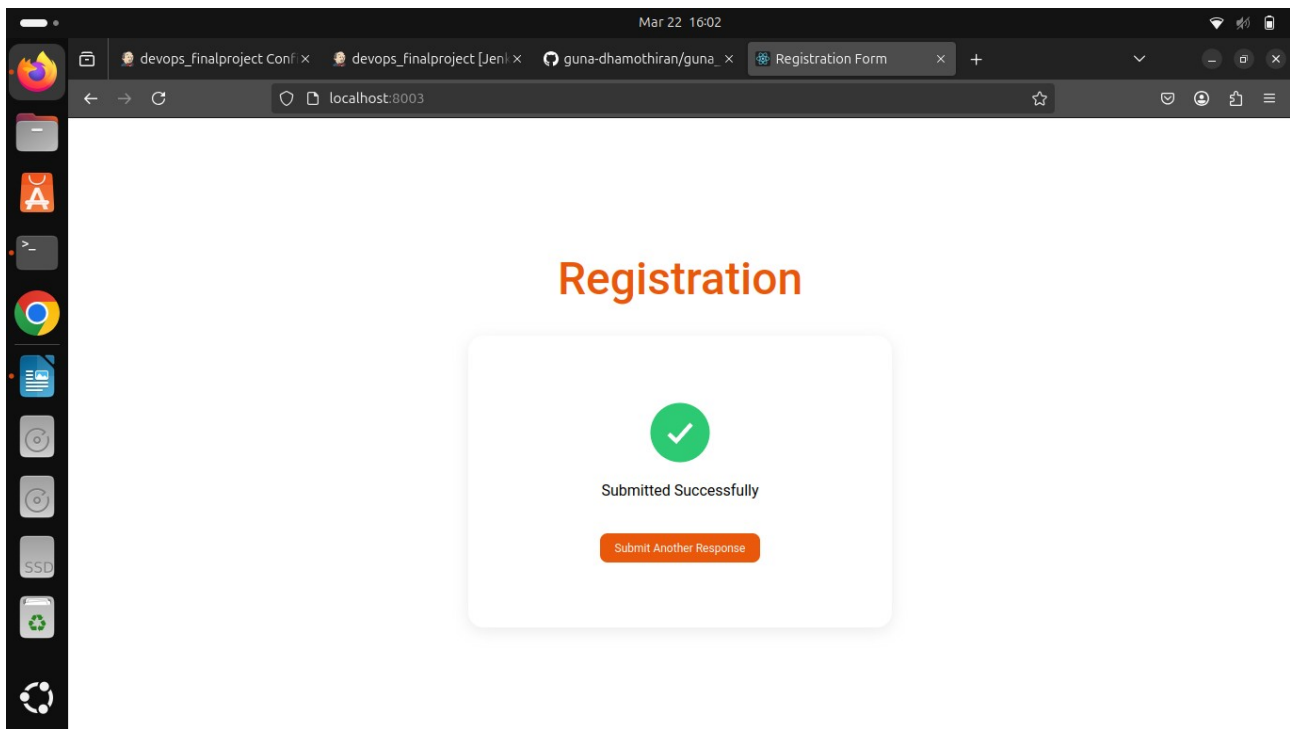
The screenshot shows the Jenkins web interface for the 'devops_finalproject' pipeline. The 'Stage View' is displayed, showing a table of stage execution times. The table has five columns: Clone Repository, Install Dependencies, Build Docker Image, Run Docker Container, and Declarative: Post Actions. The first row shows the average stage times, and the second row shows the actual execution times for build #10. The third row shows the execution times for build #9, which failed in the 'Build Docker Image' and 'Run Docker Container' stages.

	Clone Repository	Install Dependencies	Build Docker Image	Run Docker Container	Declarative: Post Actions
Average stage times: (full run time: ~2min 22s)	1s	13s	1min 34s	633ms	91ms
#10 15:24 1	1s	11s	2min 7s	1s	76ms
#9 15:19 No Changes	1s	16s	1min 1s failed	78ms failed	106ms

Permalinks

- Last build (#10), 2 min 27 sec ago





Dockerfile:

```
# Dockerfile
FROM node:18

# Set working directory
WORKDIR /app

# Copy package.json and package-lock.json
COPY package*.json ./

# Install dependencies
RUN npm install

# Copy all project files
COPY . .

# Use OpenSSL Legacy Provider to fix build issues
ENV NODE_OPTIONS=--openssl-legacy-provider

# Build the application
RUN npm run build

# Expose port and run application
EXPOSE 8003
CMD ["npm", "start"]
```

jenkins file:

```
pipeline {
```

agent any

```
environment {
  IMAGE_NAME = "guna1311/devfinal"
  CONTAINER_NAME = "devops-react-app"
  PORT = "5003"
}

stages {
  stage('Clone Repository') {
    steps {
      git 'https://github.com/guna-dhamothiran/devops_finalproject.git'
    }
  }

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

  stage('Build Docker Image') {
    steps {
      script {
        sh 'docker build -t $IMAGE_NAME .'
      }
    }
  }

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

post {
  success {
    echo '🎉 Deployment successful! Visit http://localhost:5003'
  }
  failure {
    echo '❌ Deployment failed. Check logs.'
  }
}
```