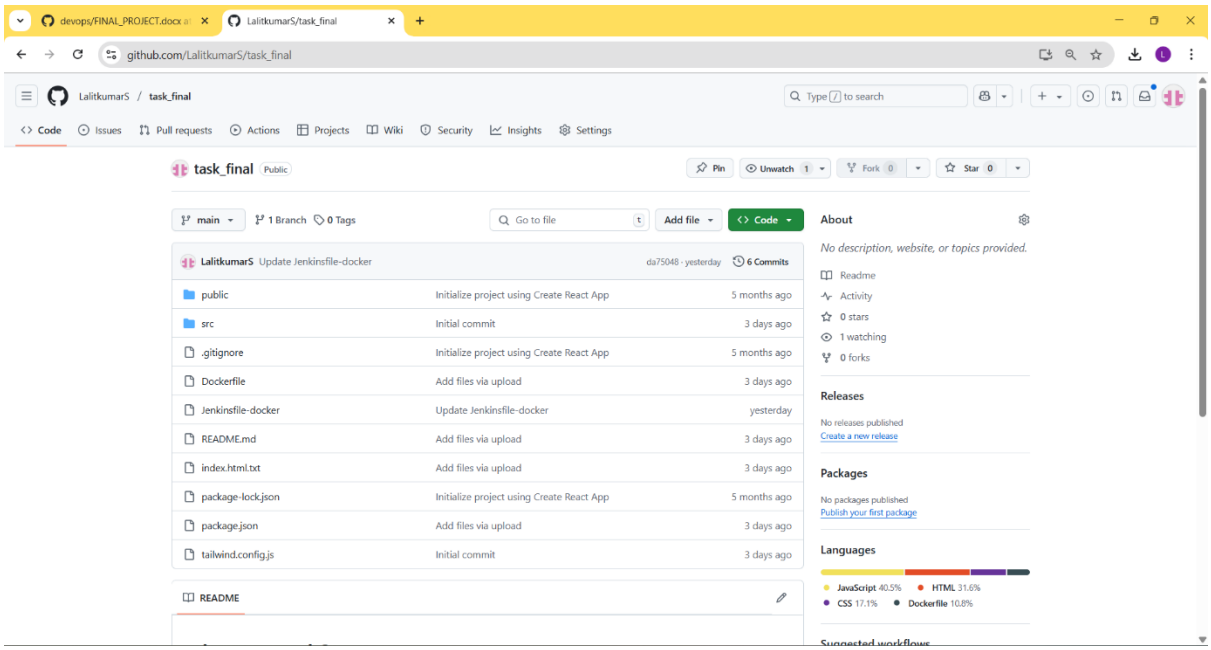
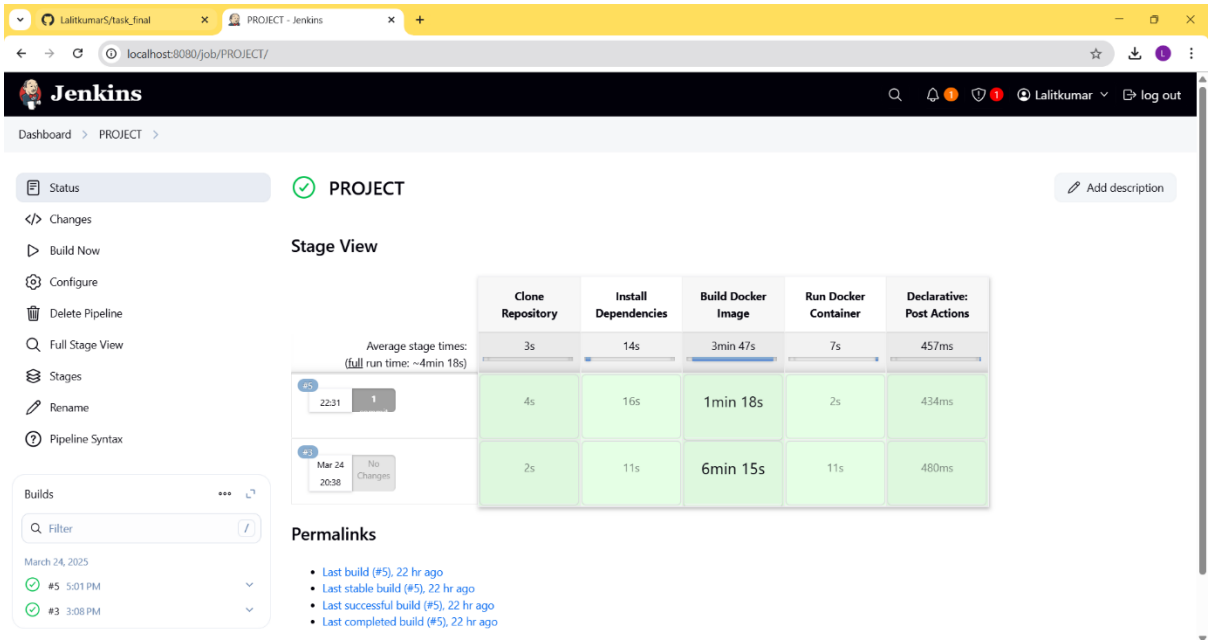
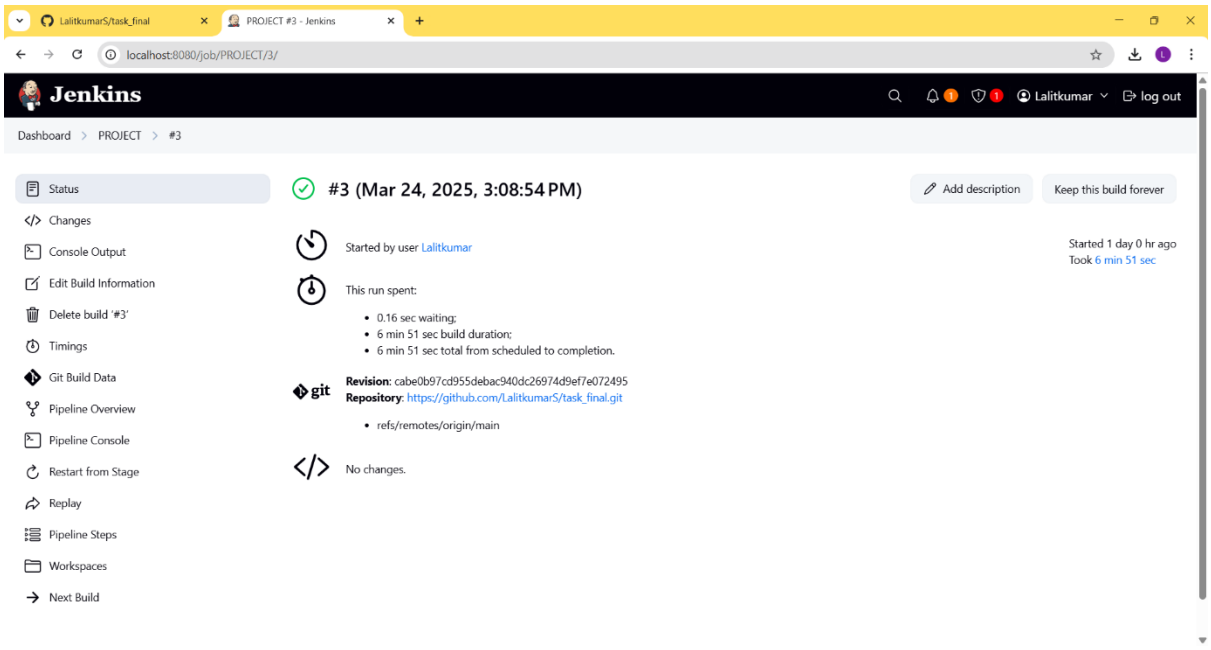
GITHUB:



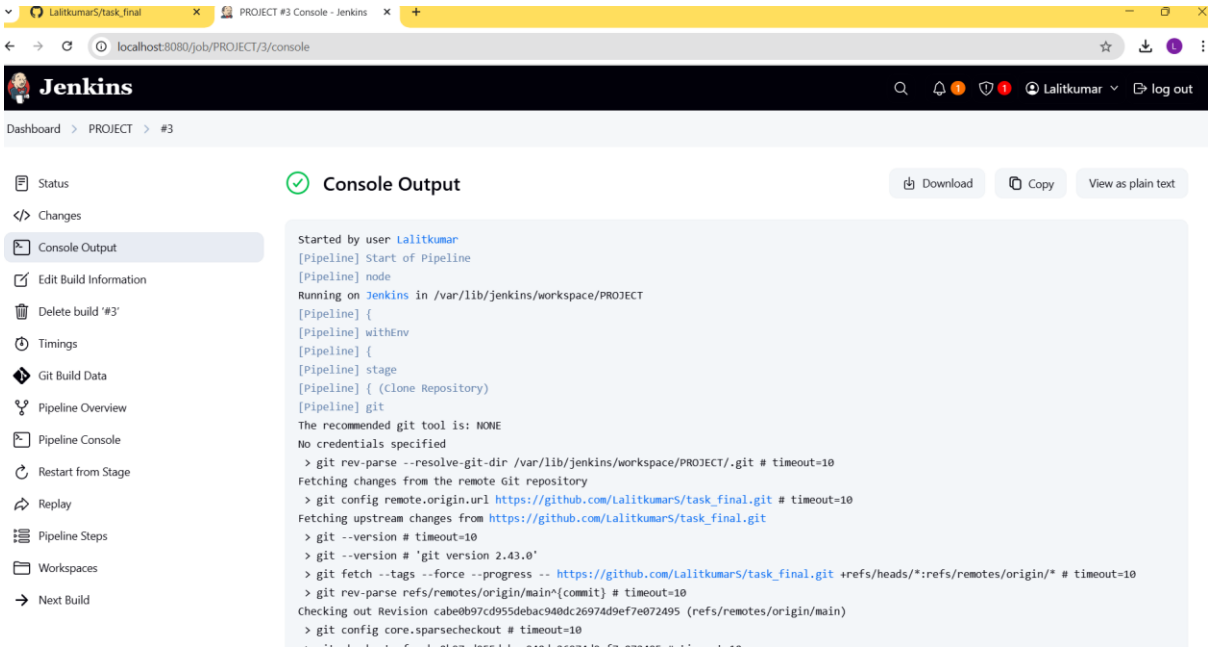
BUILD:



STATUS:



CONSOLE OUTPUT:

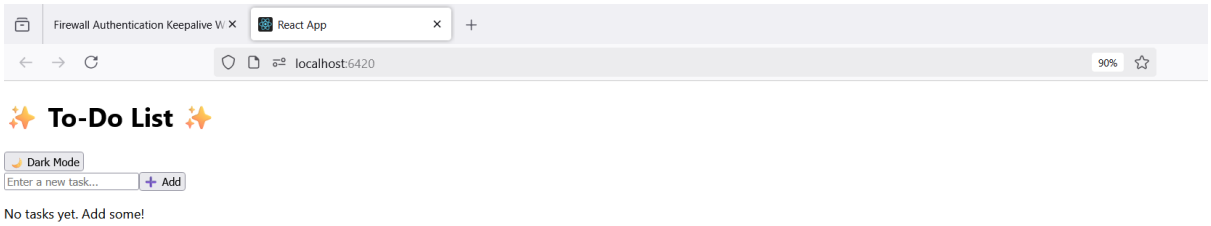
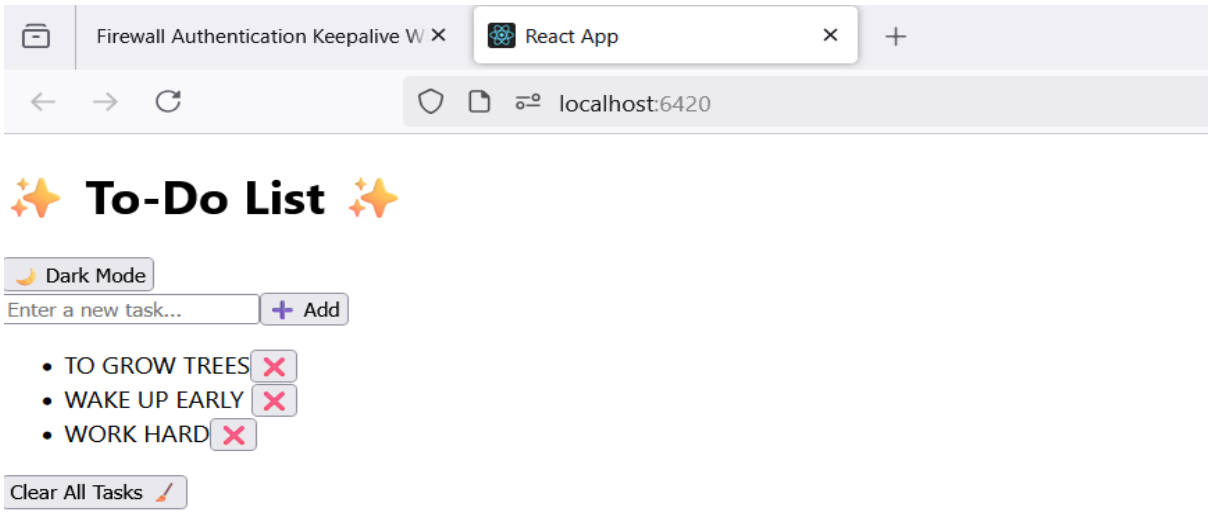
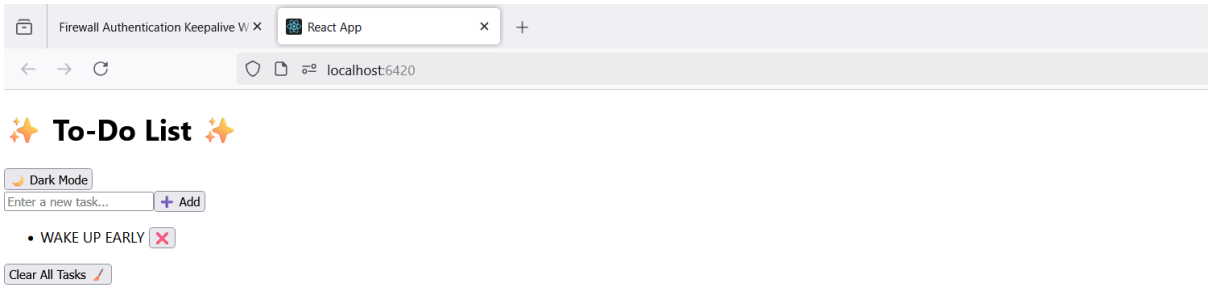


DOCKERFILE:

```
# 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: