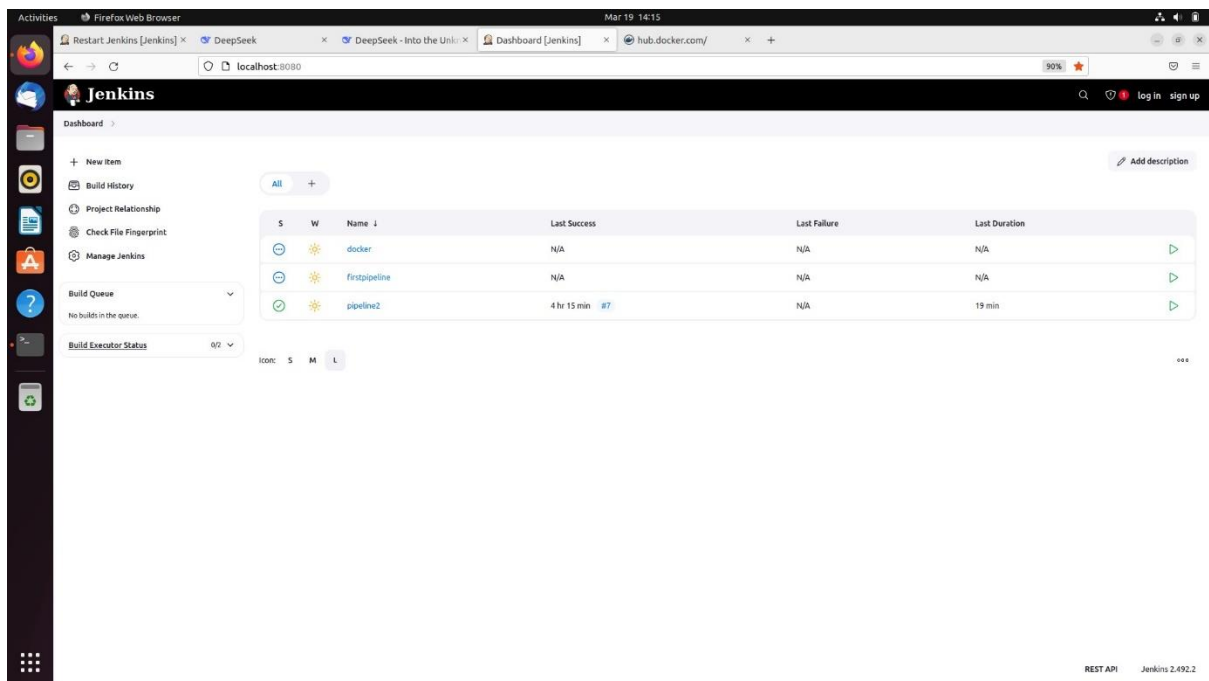
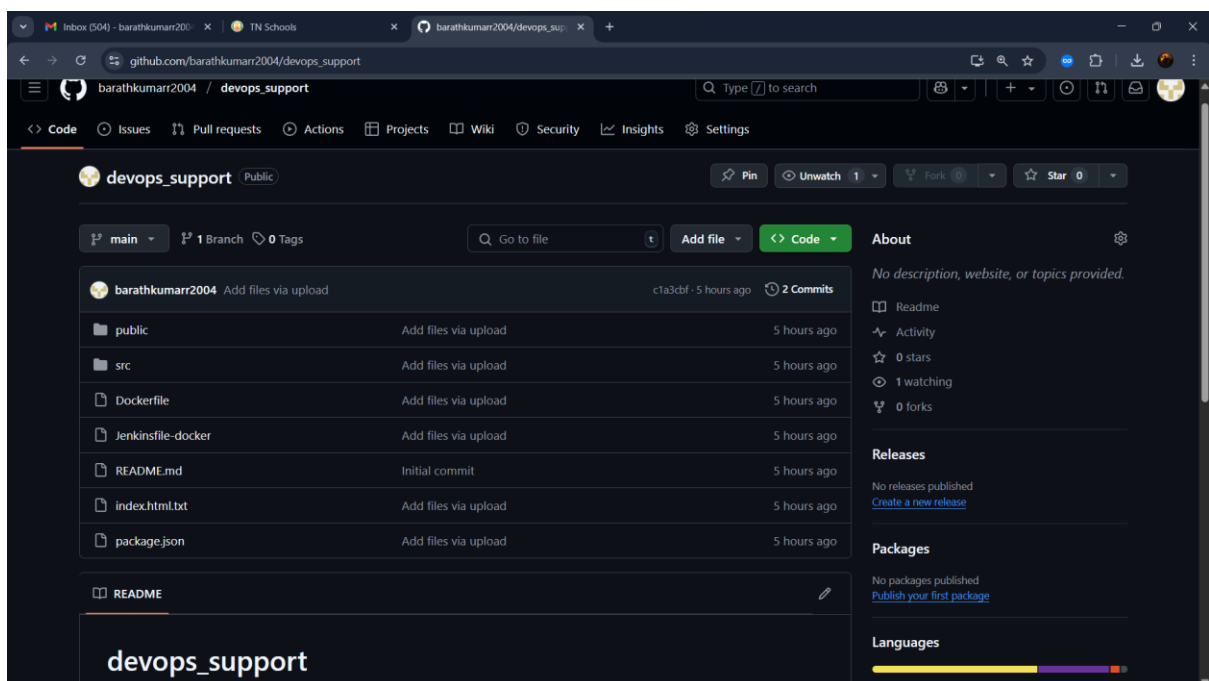


## Create credentials for the github & Docker



## Push all the files to github



In plugins install:

Docker (ignore build)

Pipeline

Node

Eclipse

In tools install

Jdk & node

n Jenkins click on new item -> pipeline -> and in the below script section put this script:(modify according to your links and names)

```
pipeline {
  agent any
  tools {
    jdk 'jdk21'
    nodejs 'node20'
  }

  stages {
    stage('Clean Workspace') {
      steps {
        script {
          echo "Cleaning workspace..."
          deleteDir() // Deletes everything in the Jenkins workspace before
starting
        }
      }
    }

    stage('Git Checkout') {
      steps {
        script {
          git branch: 'main',
            credentialsId: 'github_seccred',
            url: 'https://github.com/barathkumarr2004/devops\_support.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 = "barath2004/barath121"  
        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 {
```

```
// Stop and remove the existing container if it's running
sh "docker stop jusjes_container || true"
sh "docker rm jusjes_container || true"

// Run the new container
sh "docker run -d --name jusjes_container -p 3001:3000
barath2004/barath121:latest"
}
}
}

}
}
```

try to build now..

You'll have to get 3 | 4 passed , then go to terminal  
and enter these commands

```
sudo usermod -aG docker jenkins
```

```
sudo chmod 666 /var/run/docker.sock
```

```
sudo systemctl restart jenkins
```

```
sudo systemctl status Jenkins
```

Then try building again..

This time , you can see it being finished.

The screenshot shows the Jenkins web interface in a Firefox browser window. The page title is 'Jenkins' and the URL is 'localhost:8080/job/pipeline2/'. The main content area displays the 'pipeline2' job status as 'Success' with a green checkmark. Below the status, the 'Stage View' is shown, detailing the stages and their durations. The stages are: Declarative: Tool Install (1s), Clean Workspace (6s), Git Checkout (6s), Install Node (5min 47s), Docker Build & Push (13min 31s), and Deploy Docker Container (14s). The 'Average stage times' are also listed: (Full run time: ~19min 59s). Below the stage view, the 'Permalink' section shows a list of builds, including the last build (97), last stable build (97), last successful build (97), and last completed build (97).

Stage	Duration
Declarative: Tool Install	1s
Clean Workspace	6s
Git Checkout	6s
Install Node	5min 47s
Docker Build & Push	13min 31s
Deploy Docker Container	14s

PERMALINKS

- Last build (97), 1 hr 50 min ago
- Last stable build (97), 1 hr 50 min ago
- Last successful build (97), 1 hr 50 min ago
- Last completed build (97), 1 hr 50 min ago

Head on to localhost:3001

you'll find this website .. This is what sir gave us as a zip file, if you want , you can change it to any other website too..

