

Bootcamp 2020 Class 2: React App

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Part I - Create React Project using Create React App

Step 1: Create a new local repository

First, I navigate to my local GitHub folder where all my local repositories are kept.

```
Adil:~ adil$ cd /Users/adil/Documents/GitHub_
```

Now I create my local repository by creating my basic react application with:

`npx create-react-app <app-name>`

```
Adil:GitHub adil$ npx create-react-app project002
npx: installed 98 in 8.958s

Creating a new React app in /Users/adil/Documents/GitHub/project002.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

yarn add v1.19.1
[1/4] 🔍 Resolving packages...
[2/4] 🚚 Fetching packages...
[3/4] 🔗 Linking dependencies...
warning "react-scripts > @typescript-eslint/eslint-plugin > tsutils@3.
17.1" has unmet peer dependency "typescript@>=2.8.0 || >= 3.2.0-dev ||
>= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev || >= 3.6.0-dev || >= 3.
6.0-beta || >= 3.7.0-dev || >= 3.7.0-beta".
[4/4] 🔨 Building fresh packages...
success Saved lockfile.
success Saved 14 new dependencies.
info Direct dependencies
├─ cra-template@1.0.3
├─ react-dom@16.13.1
└─ react-scripts@3.4.1
```

Success! Created project002 at /Users/adil/Documents/GitHub/project002
Inside that directory, you can run several commands:

yarn start
Starts the development server.

yarn build
Bundles the app into static files for production.

yarn test
Starts the test runner.

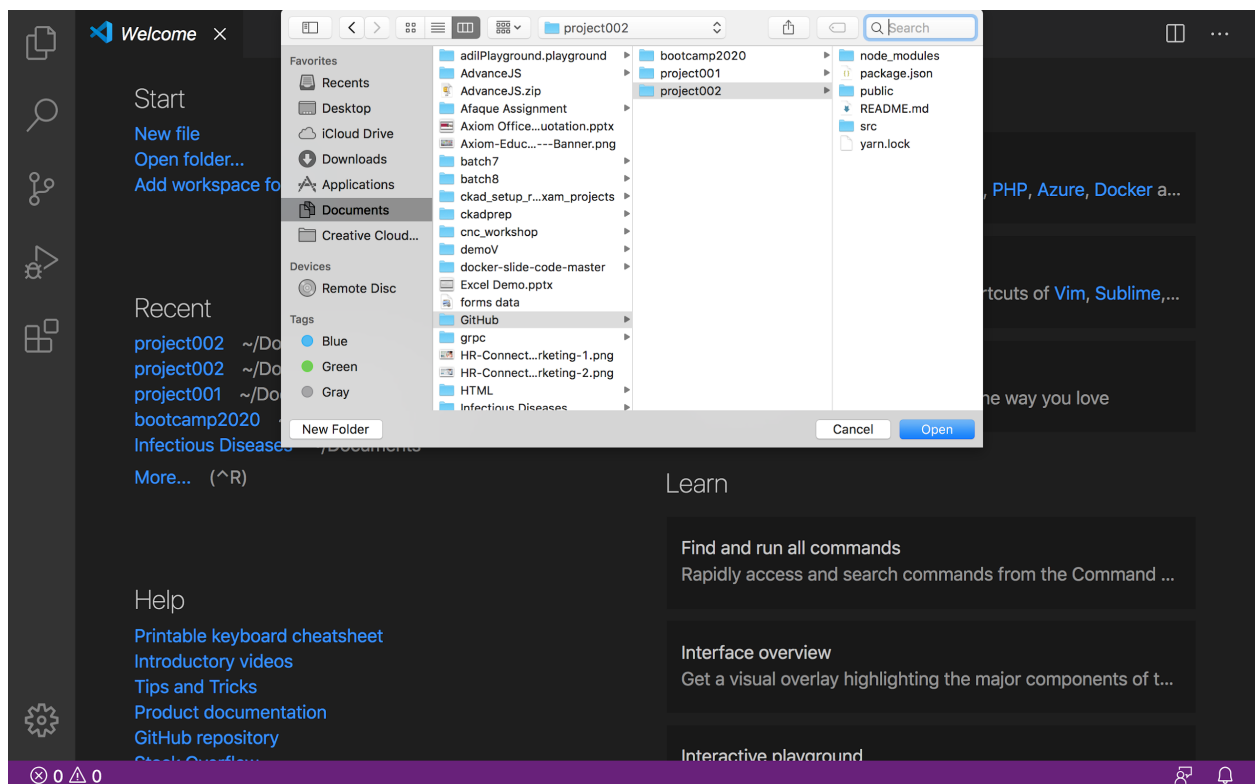
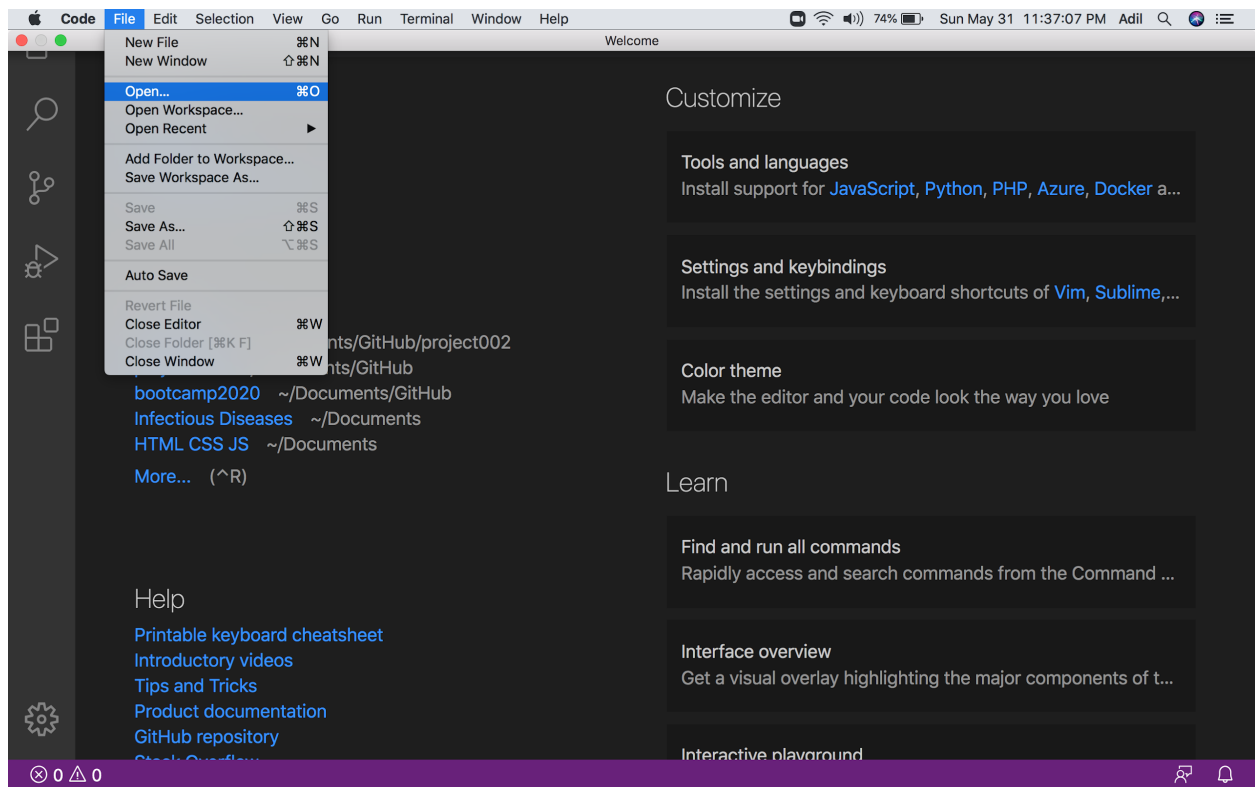
yarn eject
Removes this tool and copies build dependencies, configuration files
and scripts into the app directory. If you do this, you can't go back!

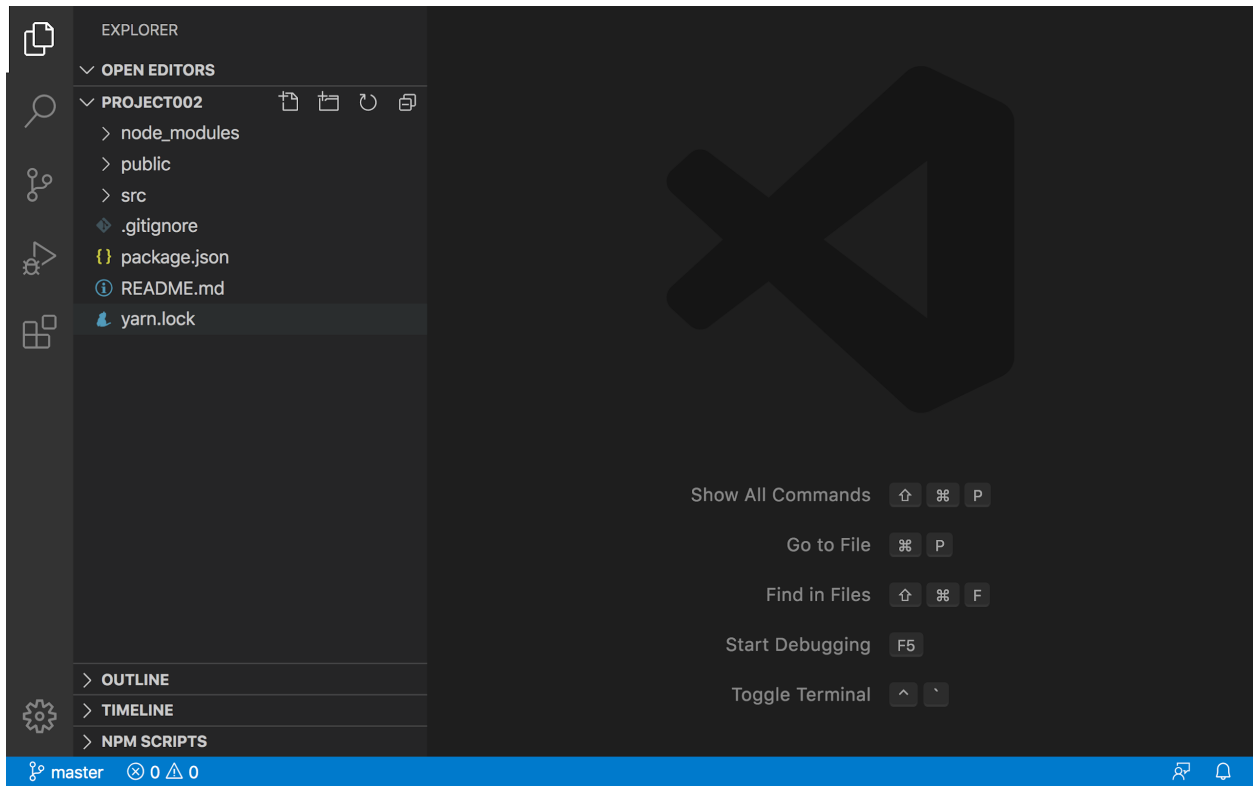
We suggest that you begin by typing:

cd project002
yarn start

Happy hacking!
Adil:GitHub adil\$

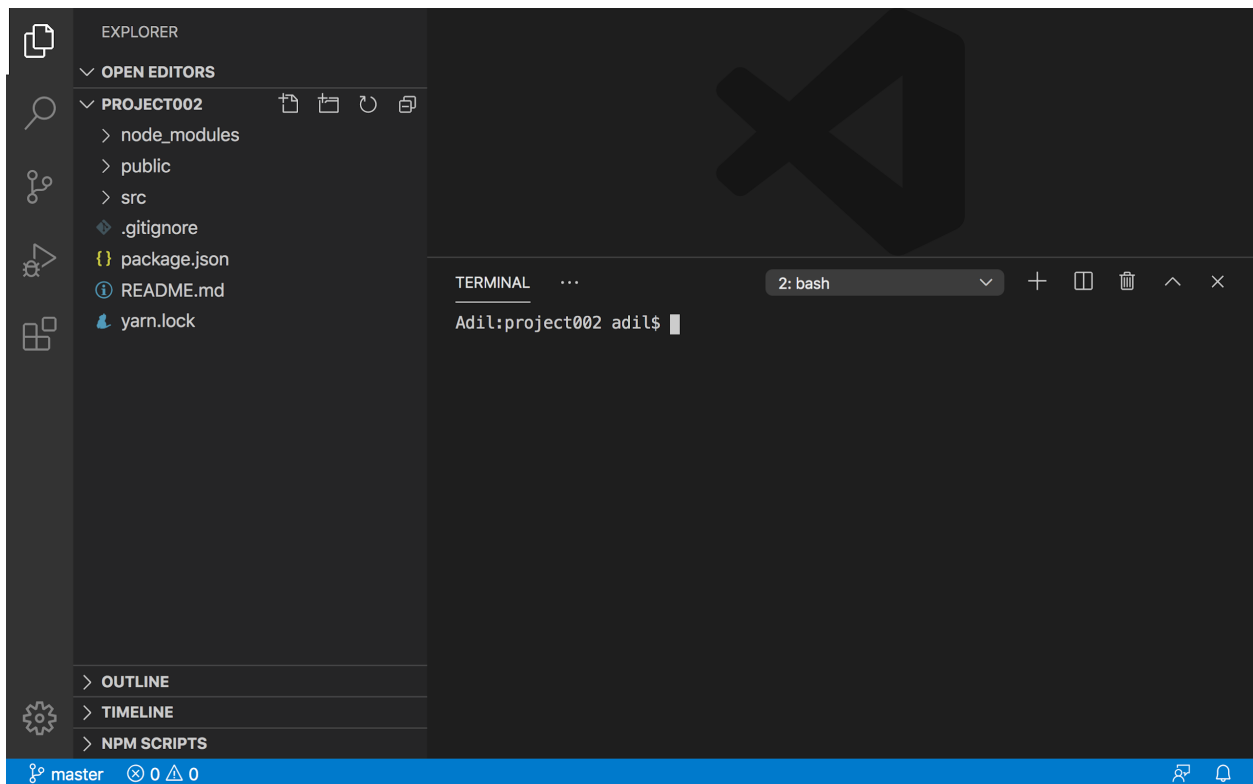
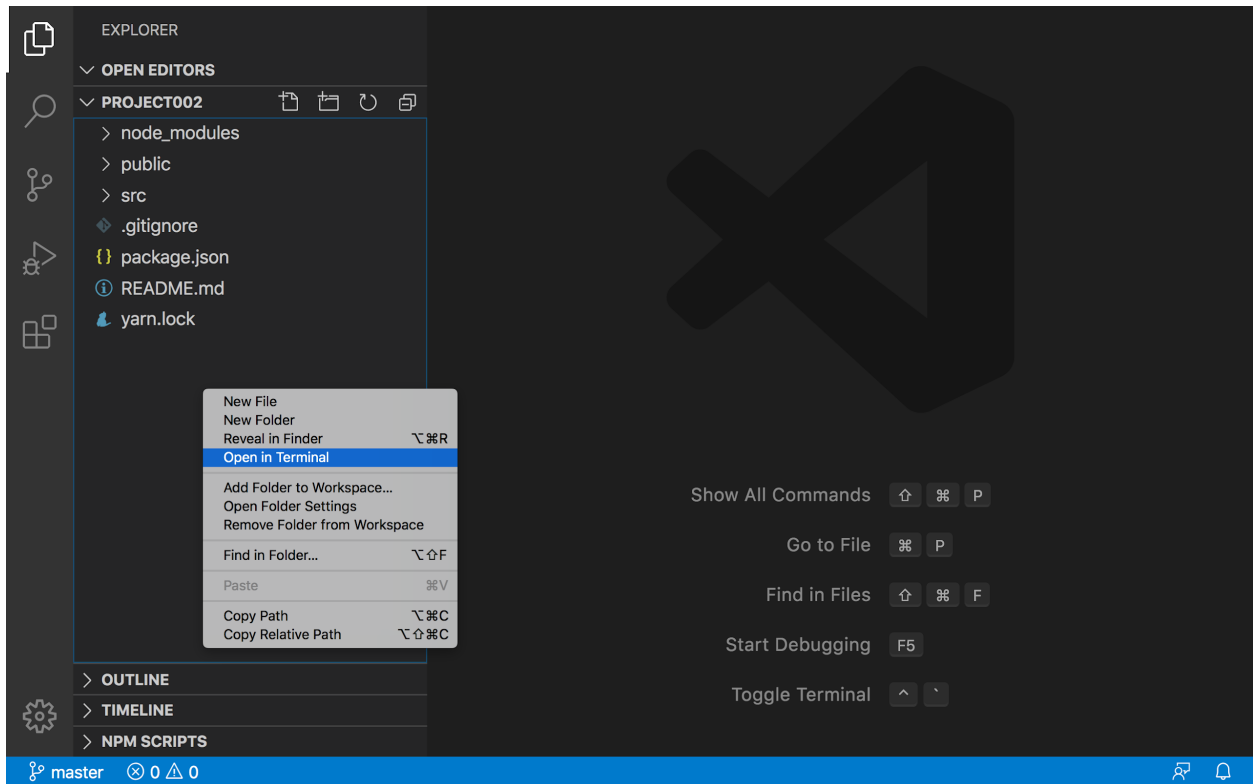
Part II - Open the Project with VS Code

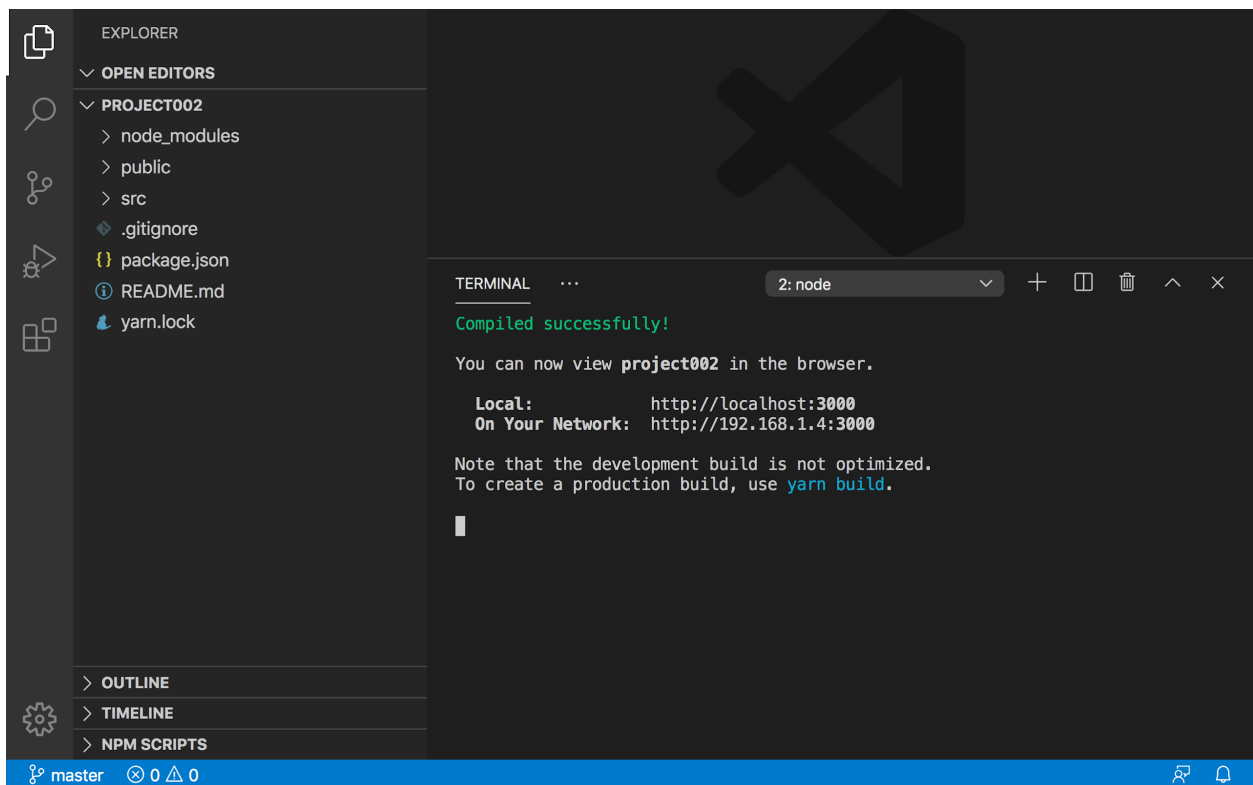
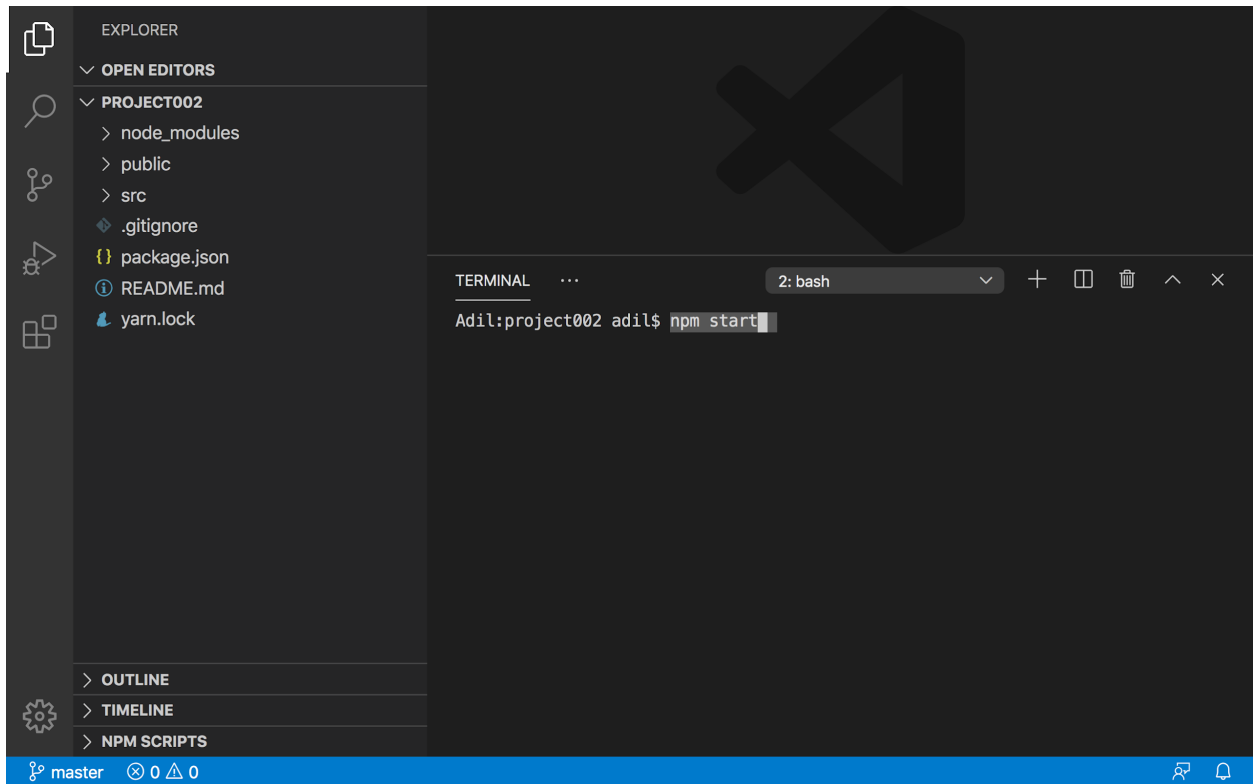




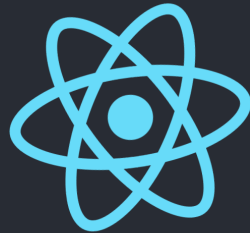
Part III - View the Project in the Browser

First, let's open the project in the terminal





< > ↻ | localhost:3000

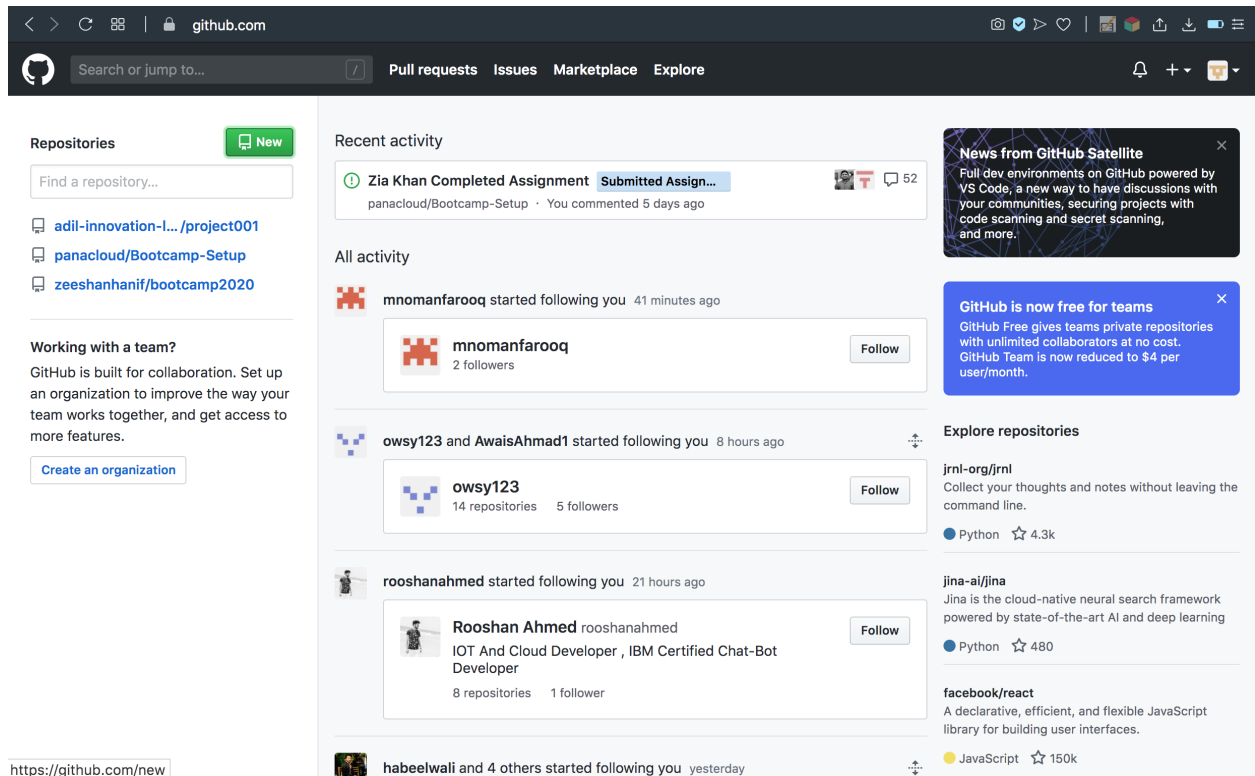


Edit `src/App.js` and save to reload.

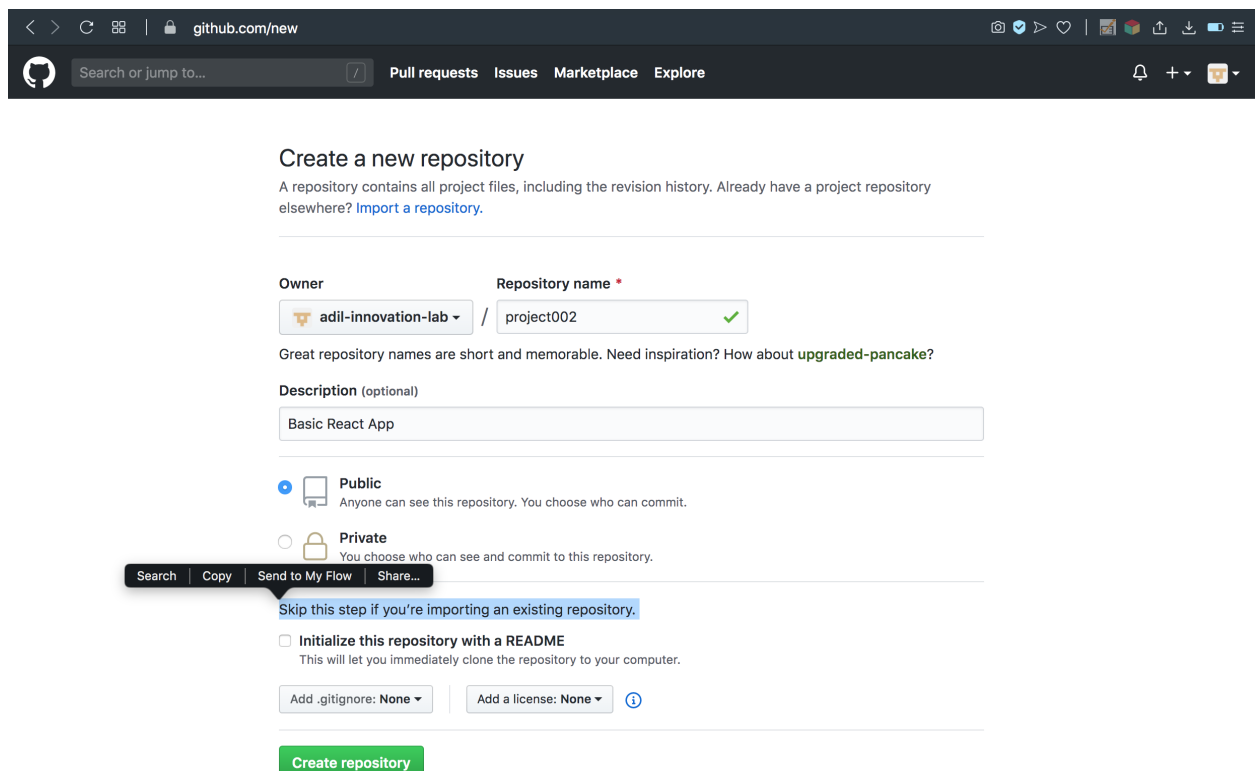
[Learn React](#)

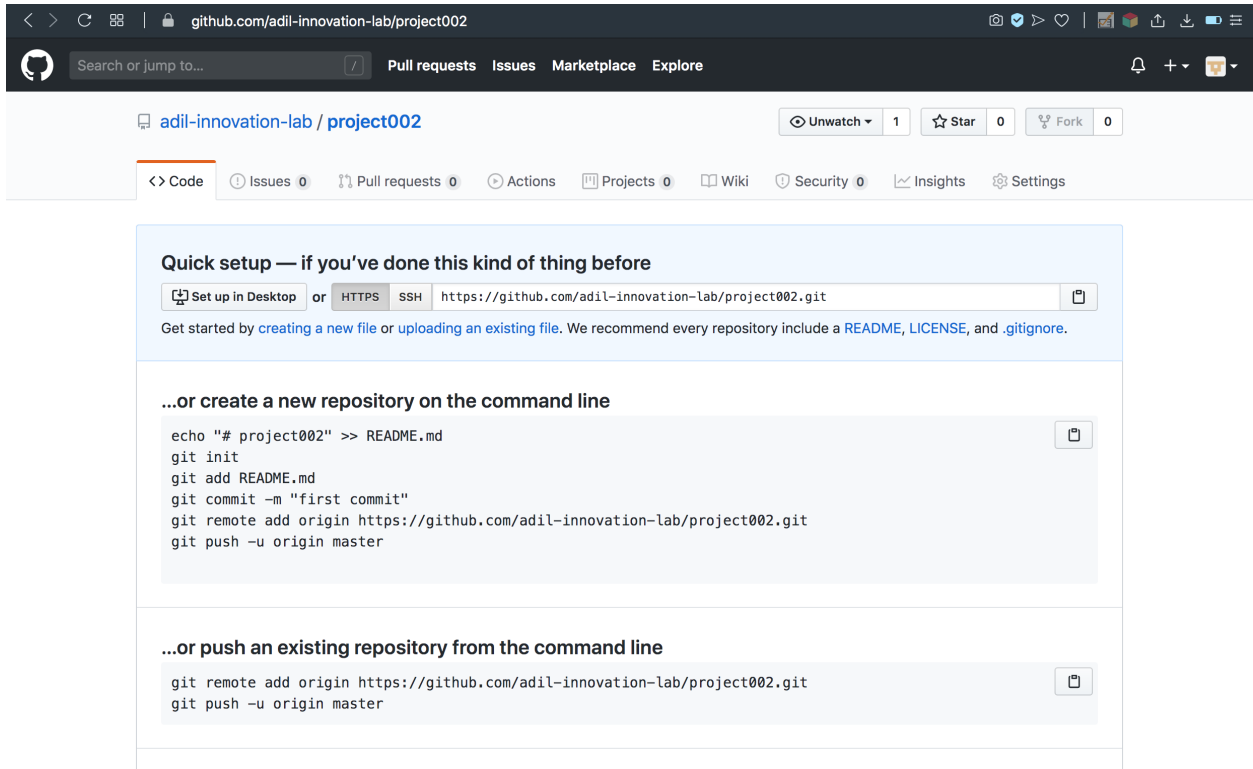
Part IV - Add Repository to GitHub with the CLI

Step 1: Create a new repository on GitHub

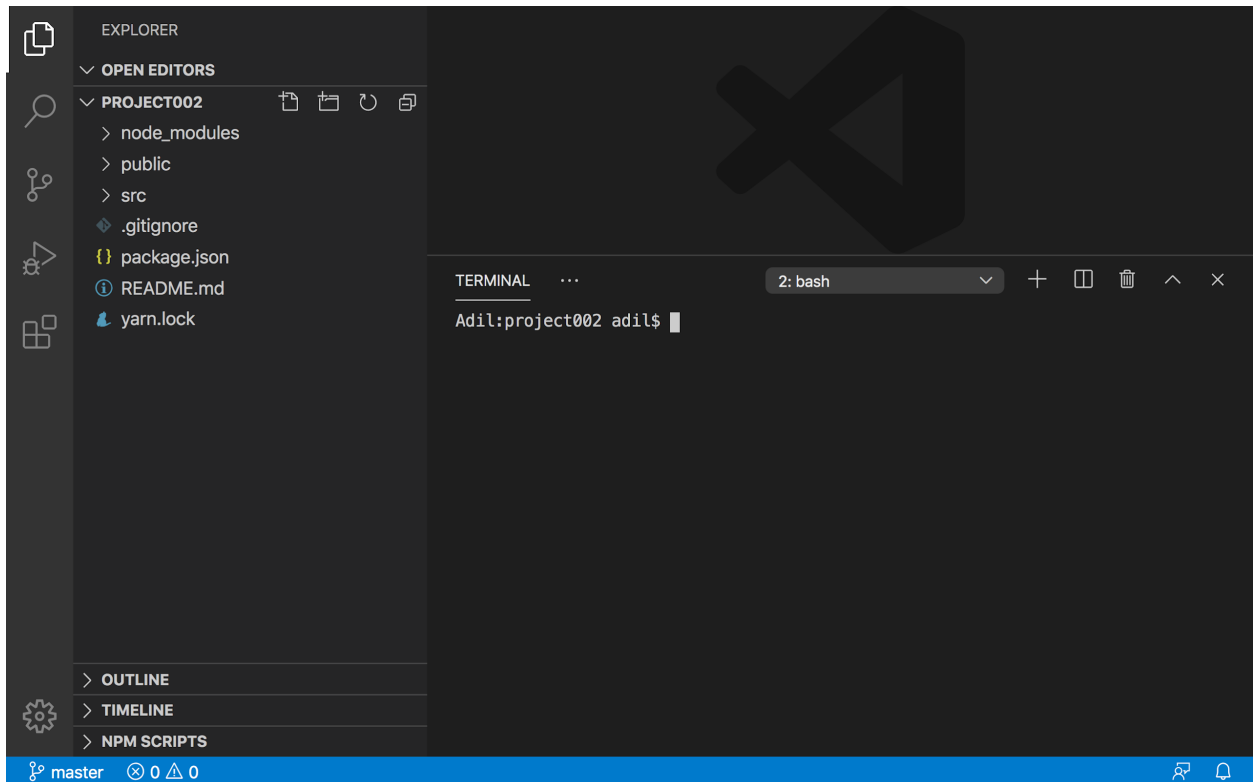


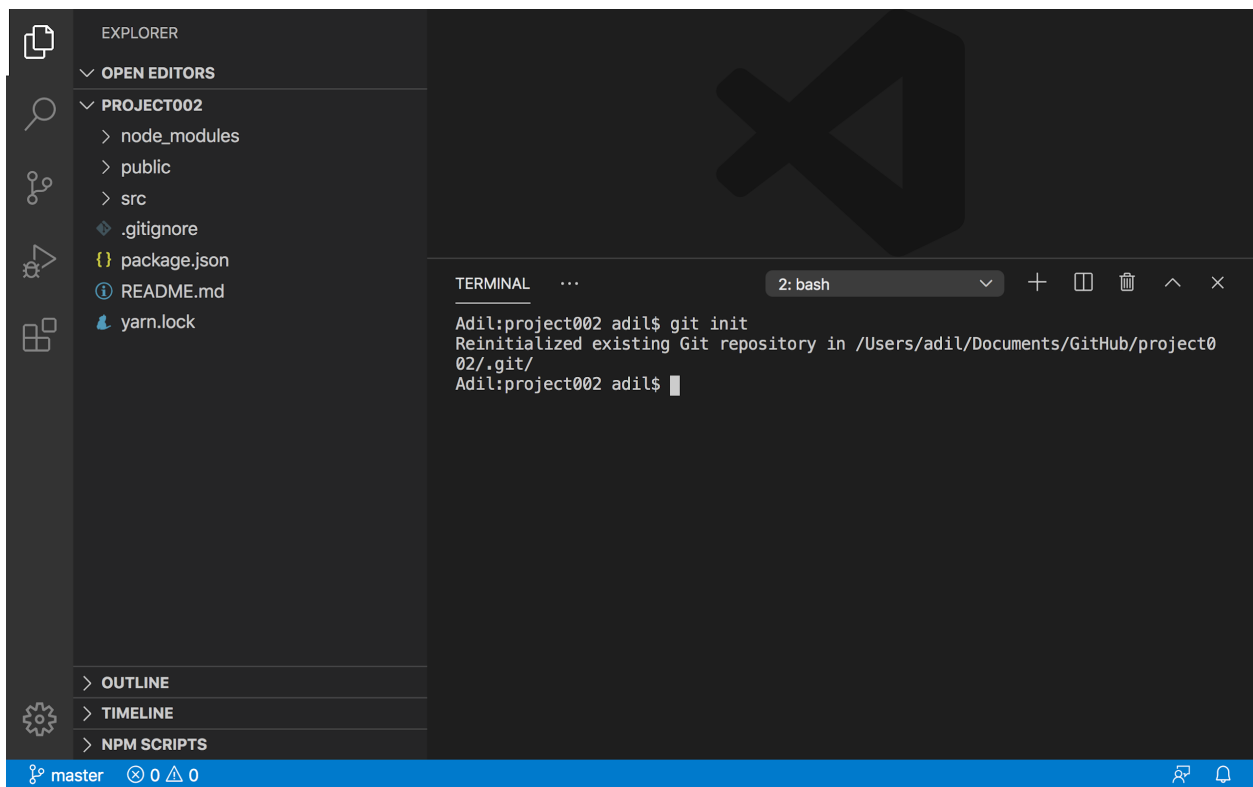
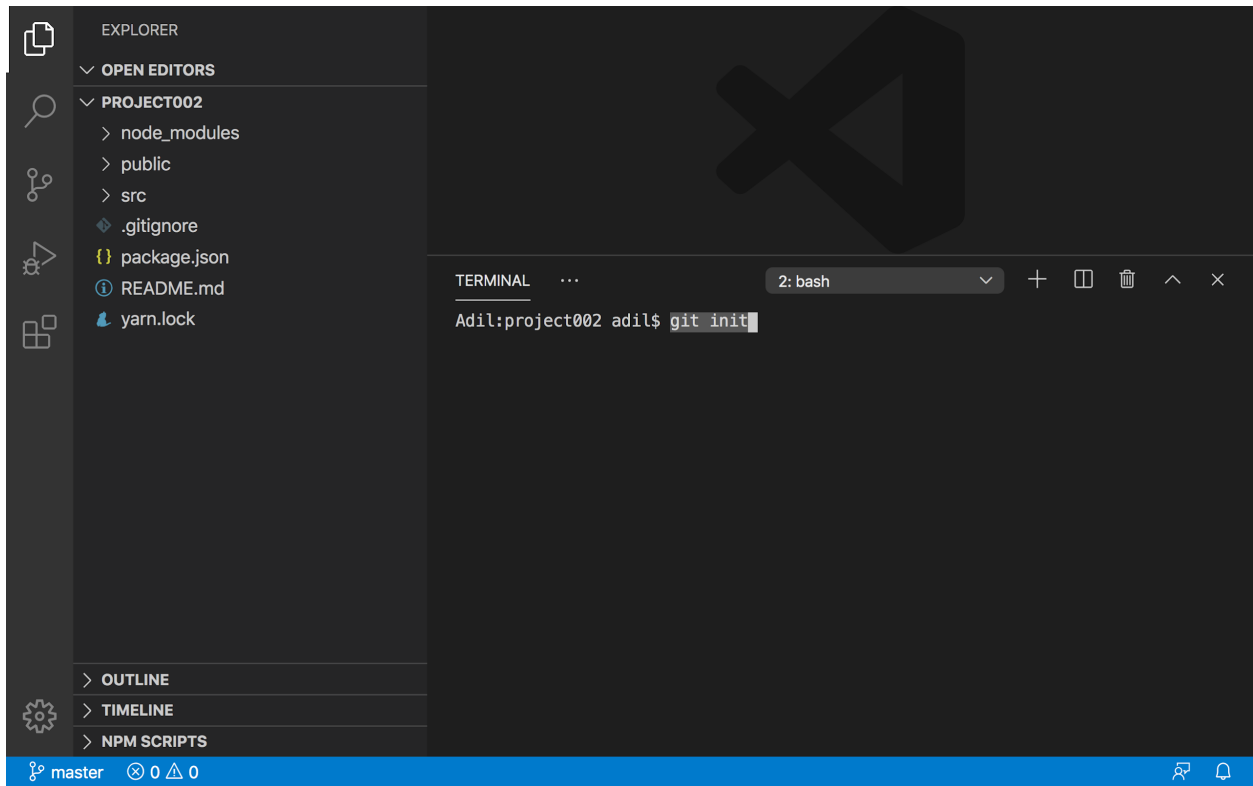
Do not initialize with a readme file, gitignore, or license:



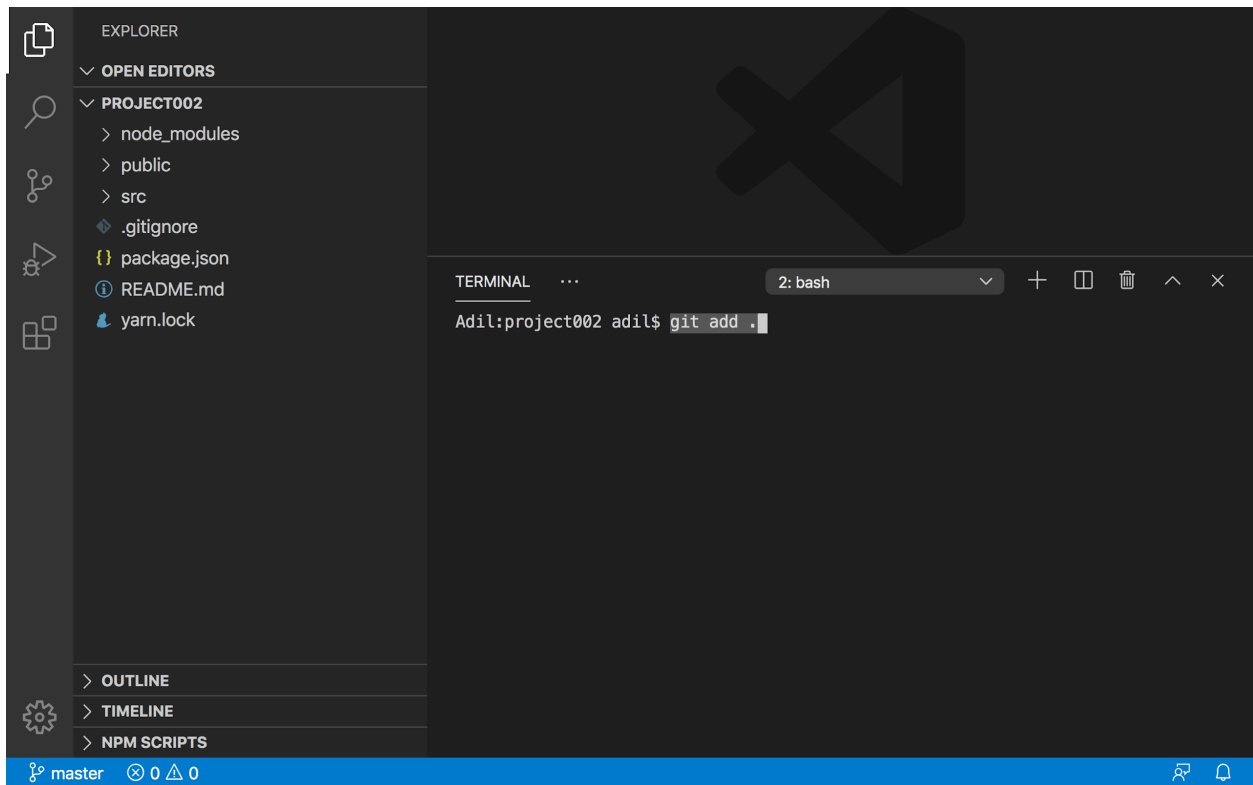


Step 2: Initialize the local directory as a git repository:
Open terminal in our local folder:

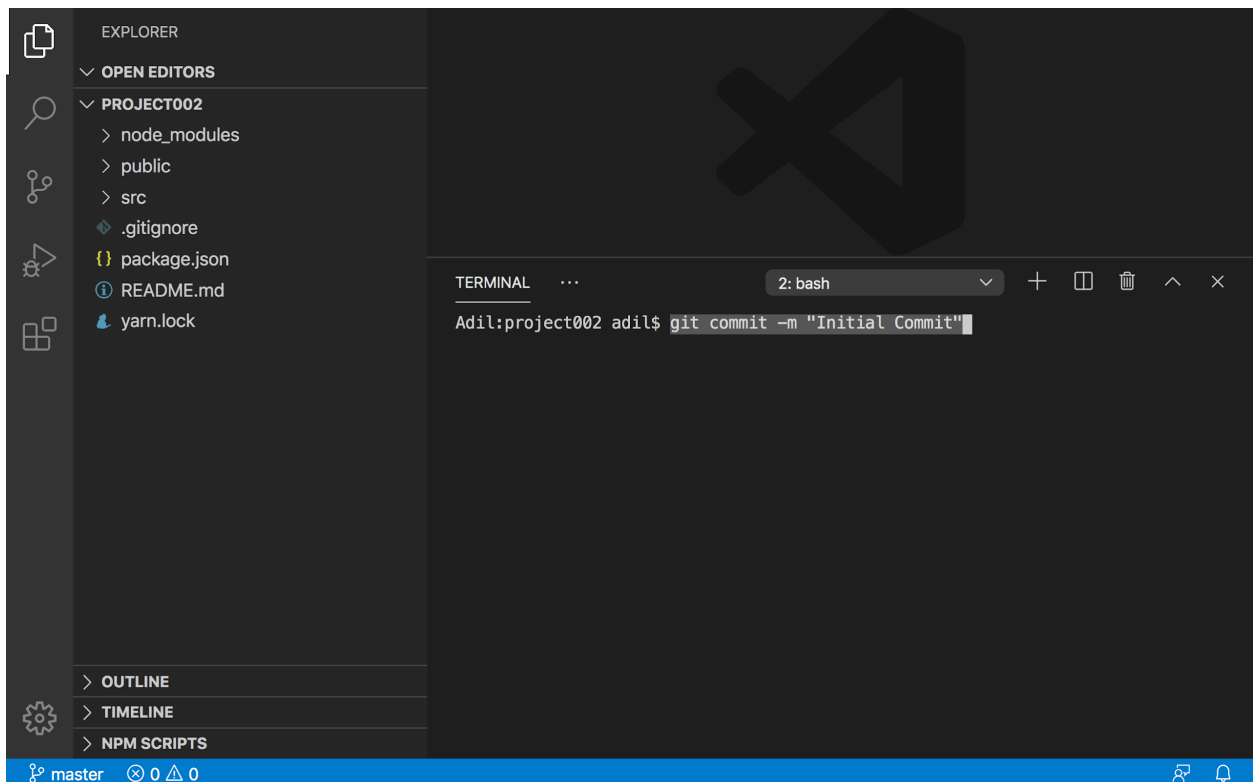


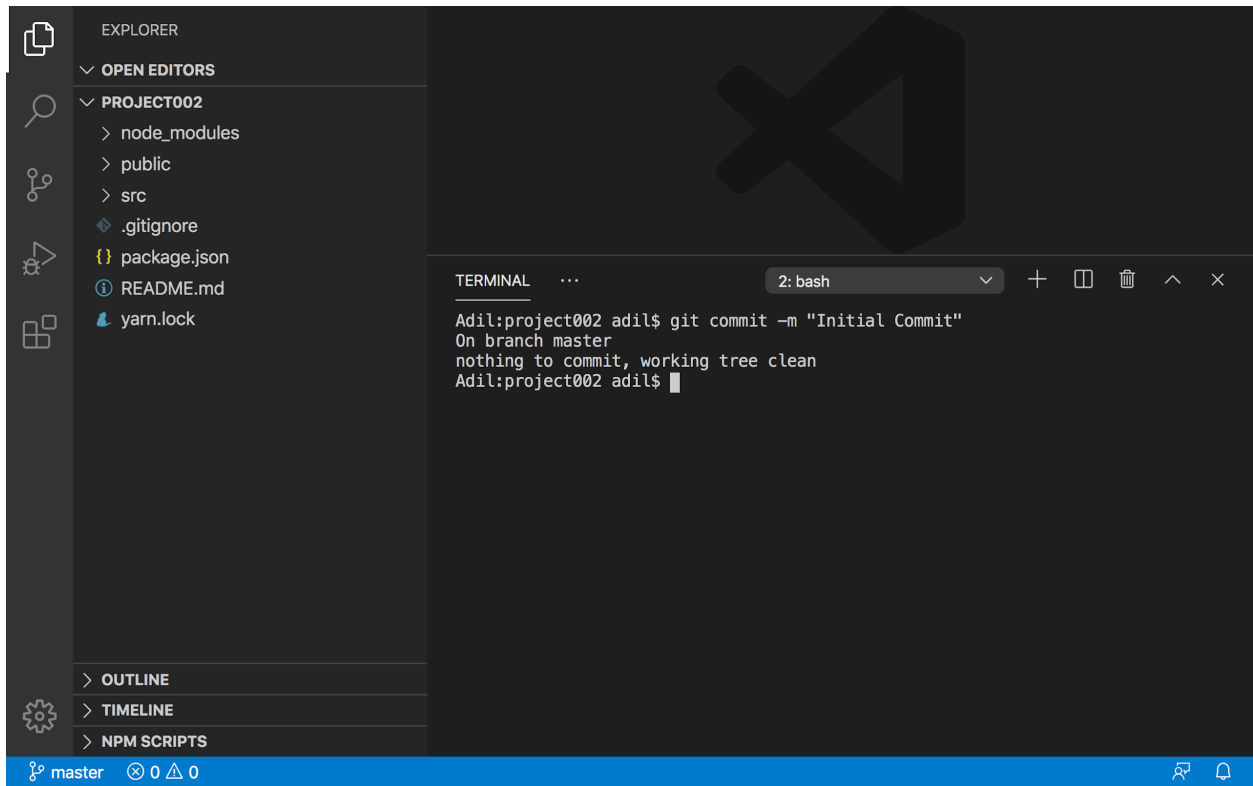


Step 3: Add files from local directory to git staging area to prepare for commit

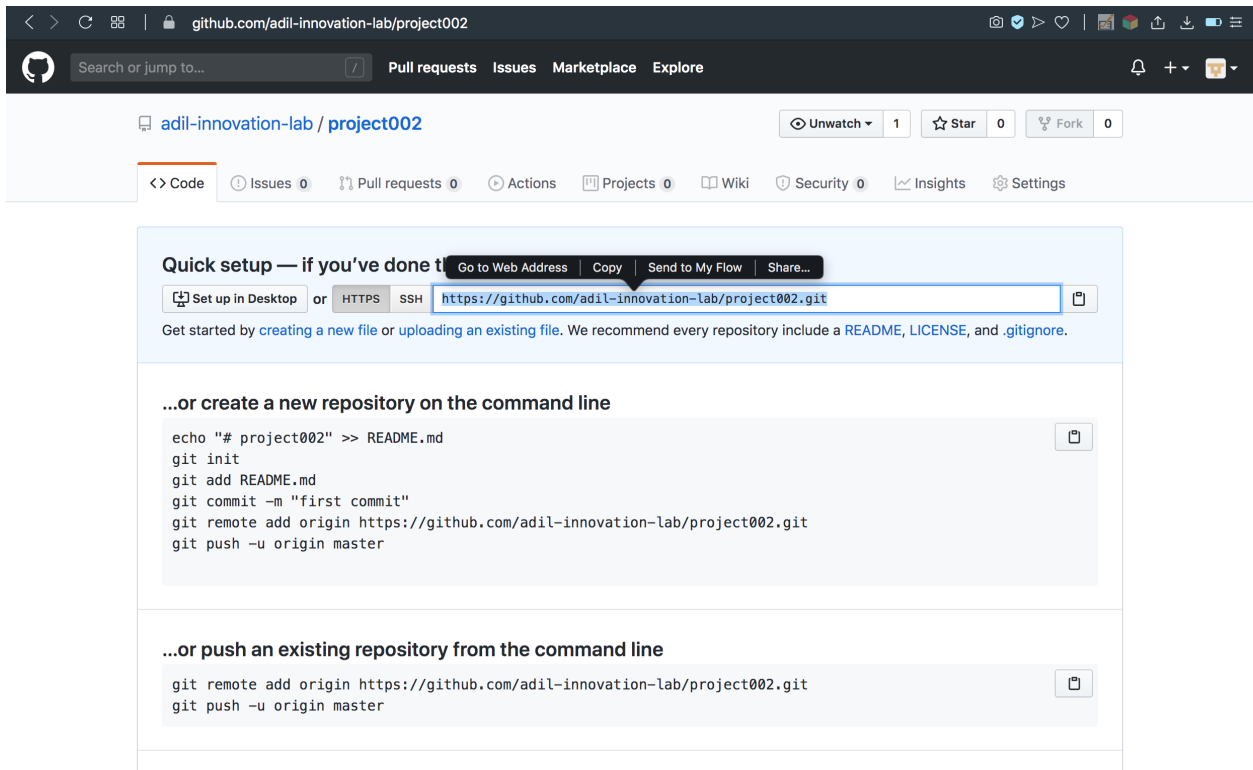


Step 4: Commit files from staging area to local git repository

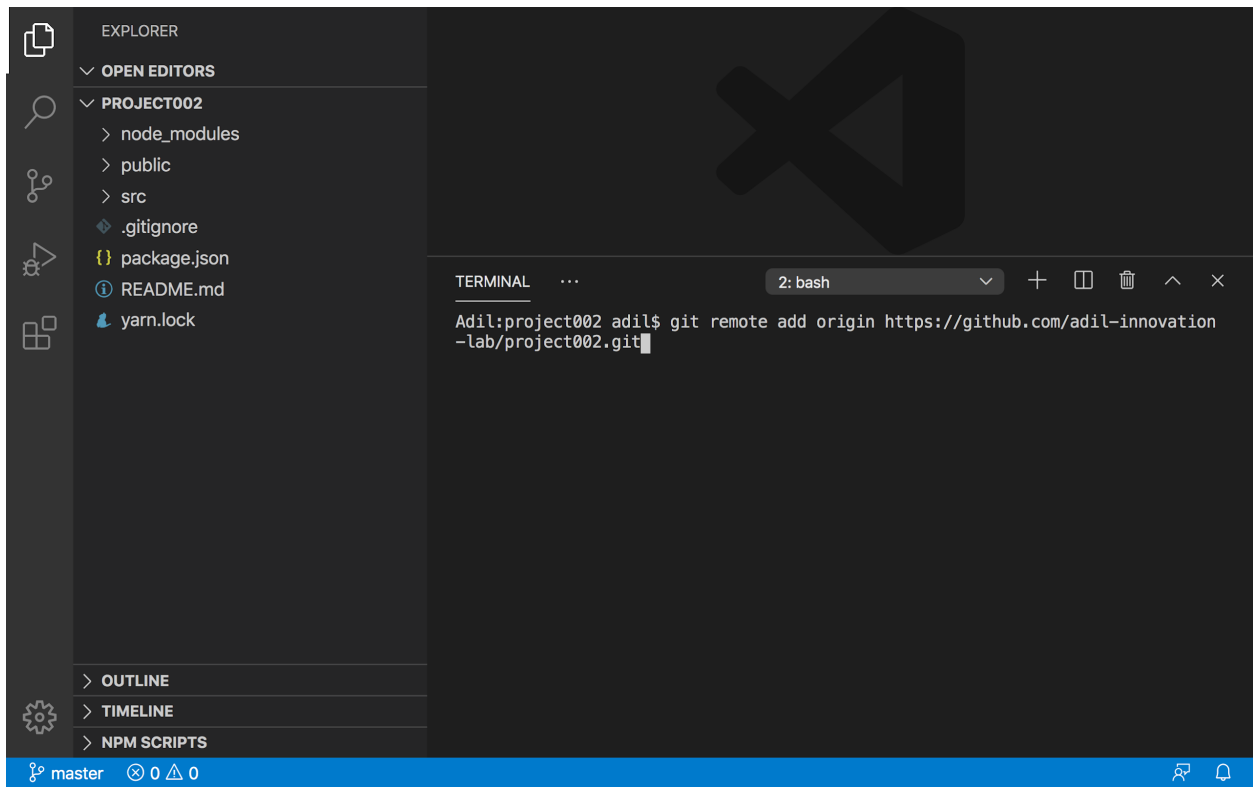




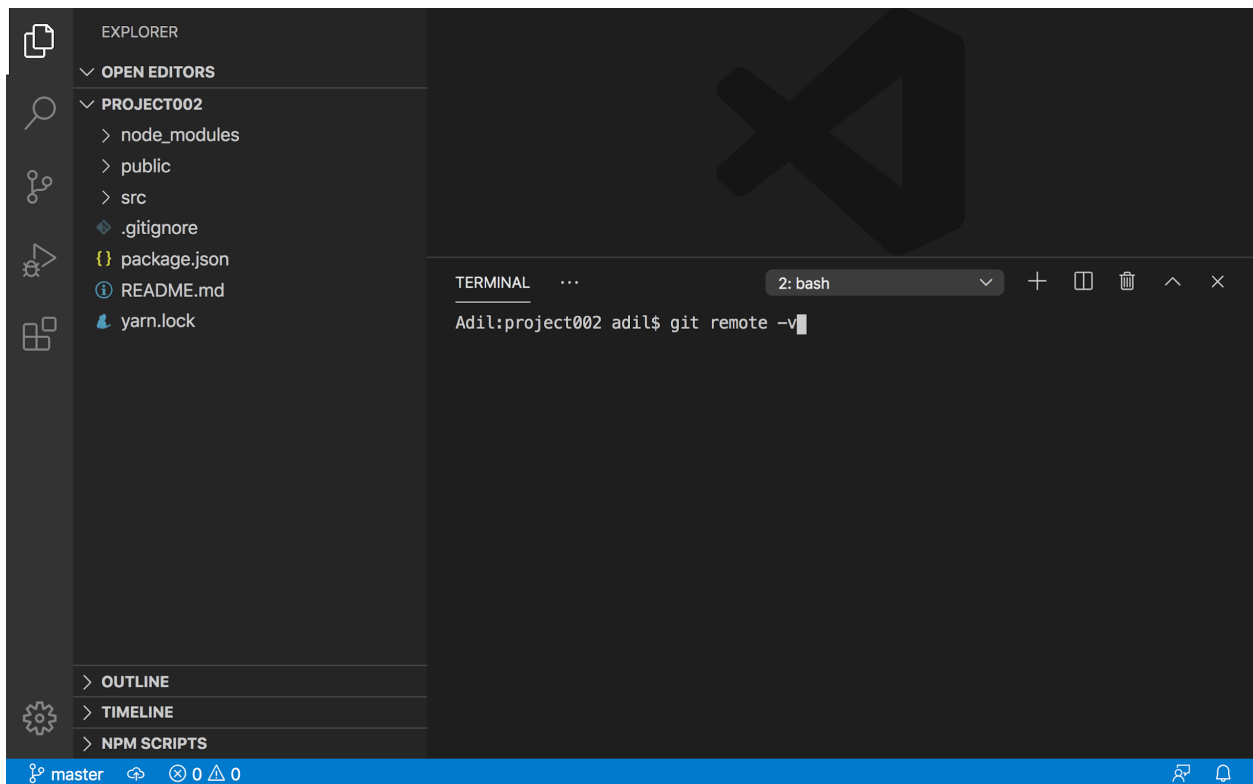
Step 5: Get the URL of the remote repository from GitHub:

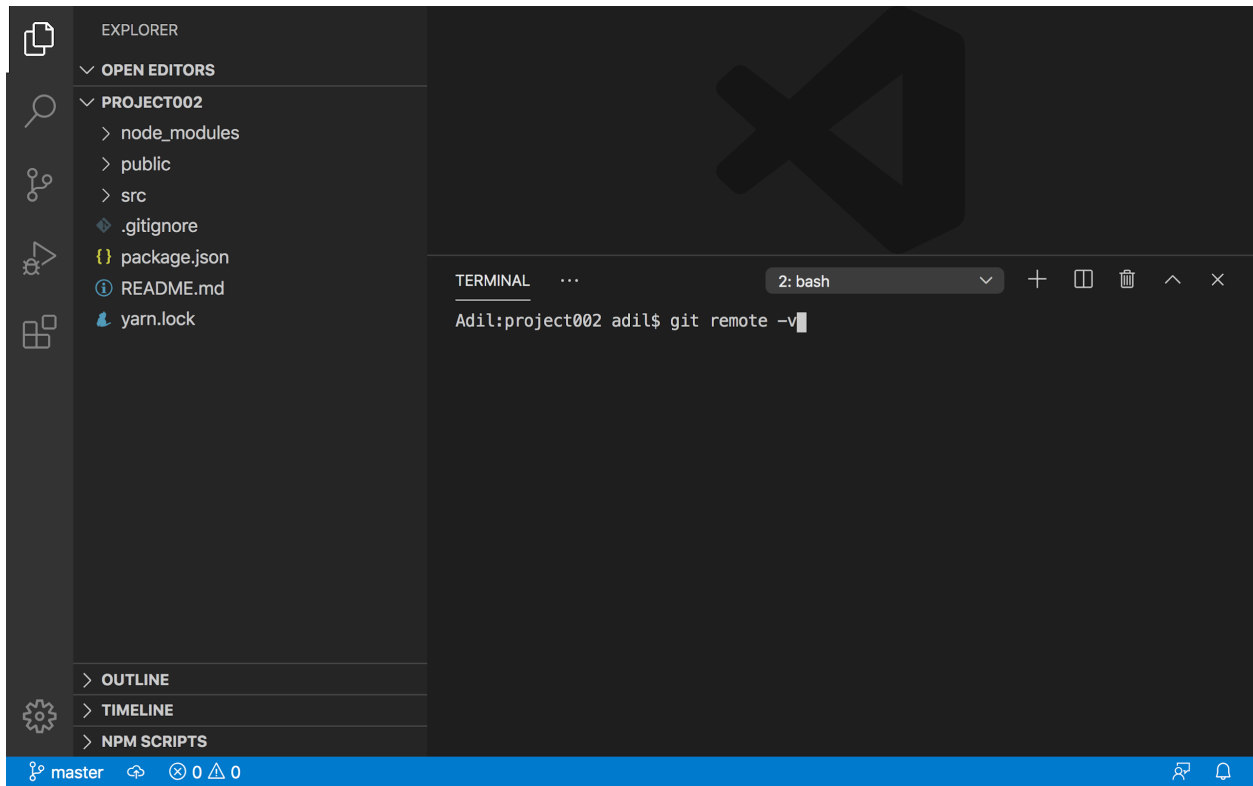


Step 6: Add remote URL to git via the terminal so local repository can be pushed to the right place

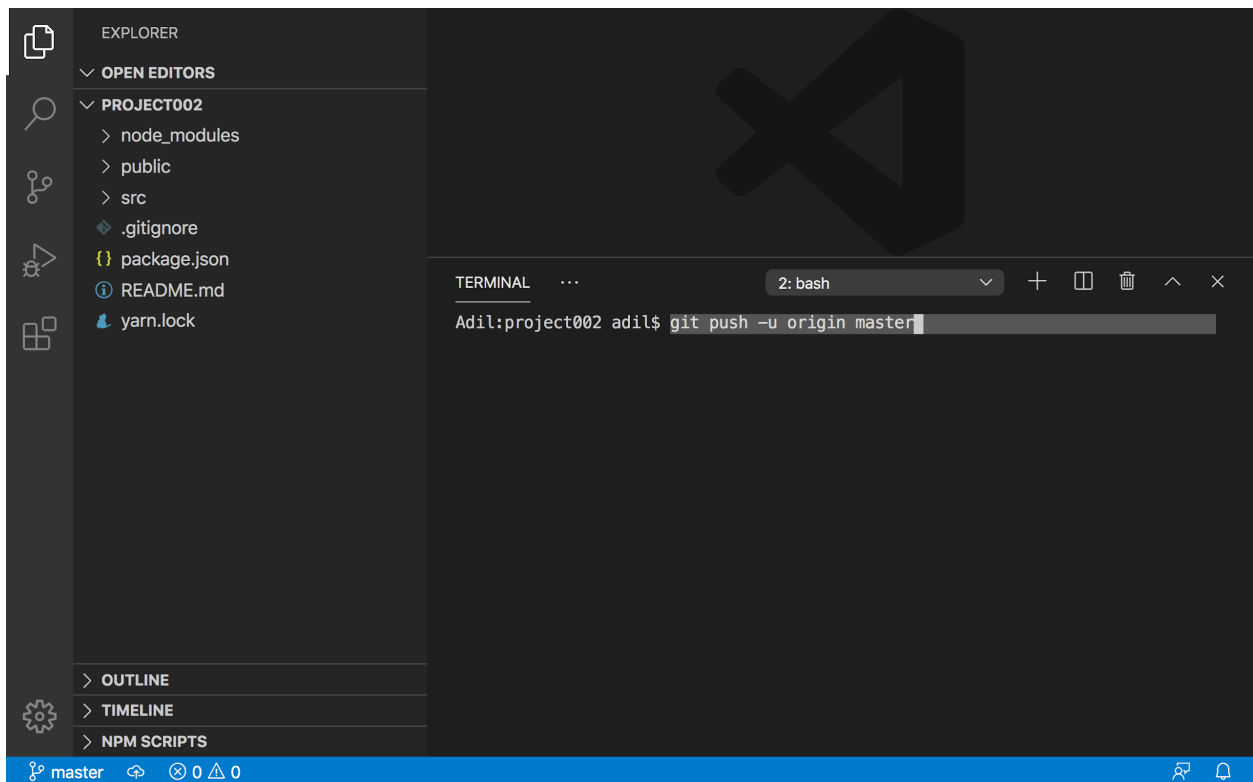


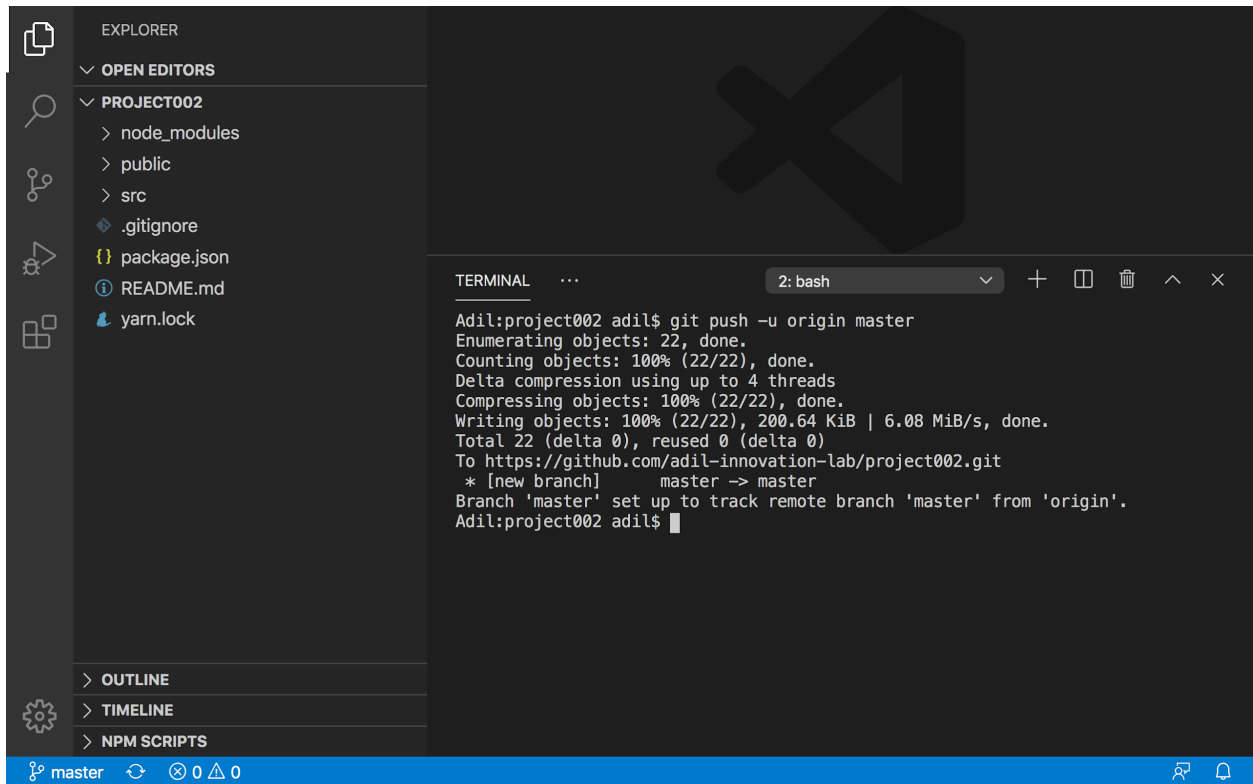
Verify the remote URL





Step 7: Push the code from local git repository to the remote git repository

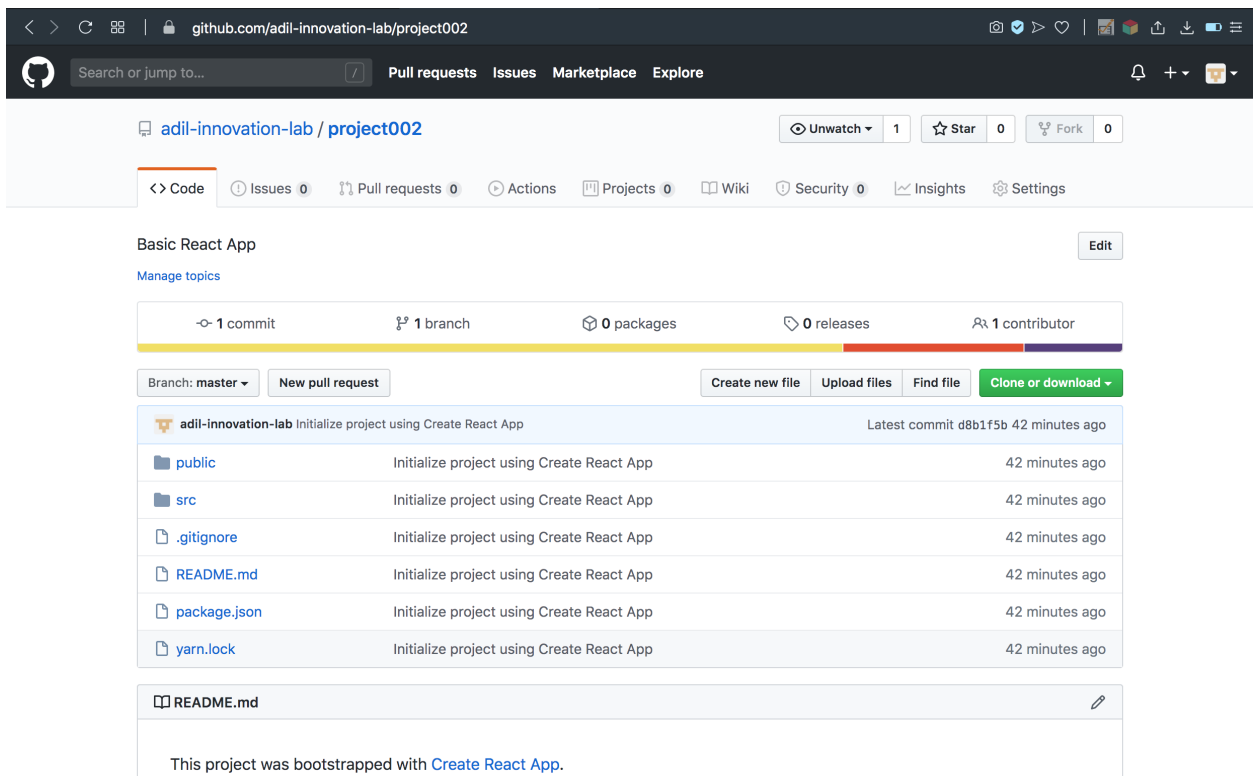




The image shows the Visual Studio Code (VS Code) interface. On the left, the Explorer sidebar shows the file structure of 'PROJECT002' with folders 'node_modules', 'public', and 'src', and files '.gitignore', 'package.json', 'README.md', and 'yarn.lock'. The main editor area displays a terminal window with the following output:

```
Adil:project002 adil$ git push -u origin master
Enumerating objects: 22, done.
Counting objects: 100% (22/22), done.
Delta compression using up to 4 threads
Compressing objects: 100% (22/22), done.
Writing objects: 100% (22/22), 200.64 KiB | 6.08 MiB/s, done.
Total 22 (delta 0), reused 0 (delta 0)
To https://github.com/adil-innovation-lab/project002.git
 * [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
Adil:project002 adil$
```

Step 8: Verify changes pushed to remote git repository



The image shows the GitHub repository page for 'adil-innovation-lab / project002'. The repository is a 'Basic React App' with 1 commit, 1 branch, 0 packages, 0 releases, and 1 contributor. The 'master' branch is selected. The repository contains the following files and folders:

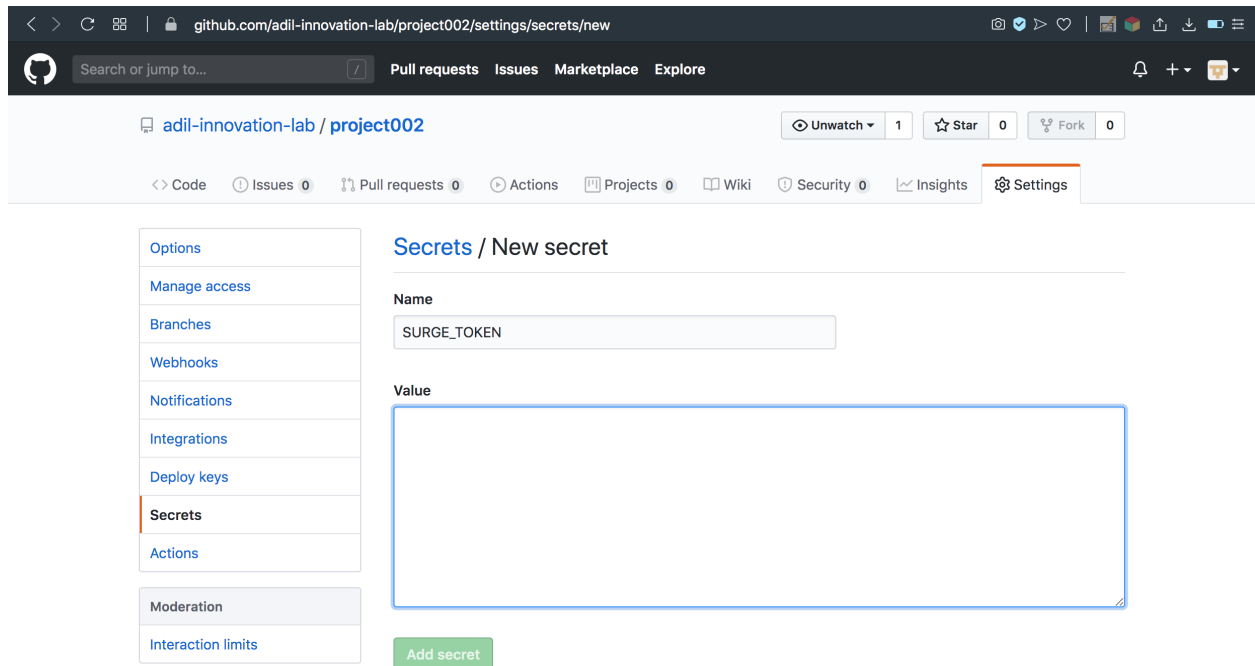
File/Folder	Description	Time
public	Initialize project using Create React App	42 minutes ago
src	Initialize project using Create React App	42 minutes ago
.gitignore	Initialize project using Create React App	42 minutes ago
README.md	Initialize project using Create React App	42 minutes ago
package.json	Initialize project using Create React App	42 minutes ago
yarn.lock	Initialize project using Create React App	42 minutes ago

The README.md file content is:

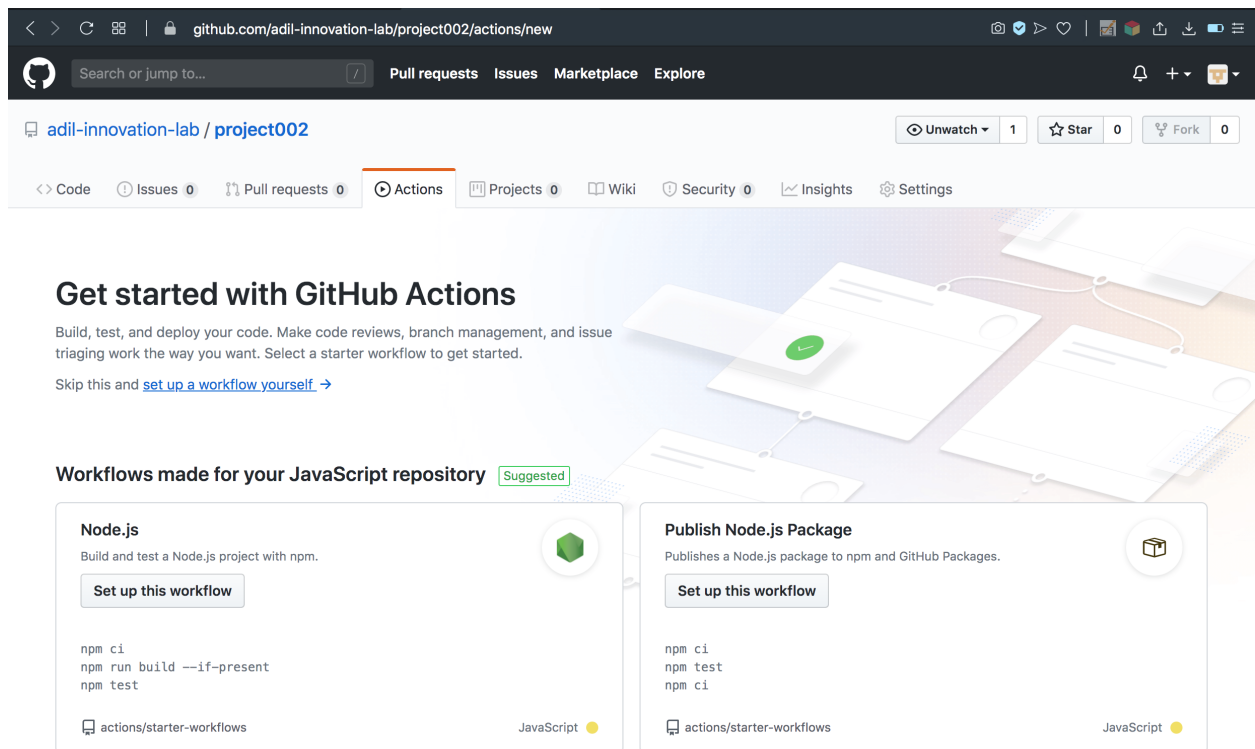
This project was bootstrapped with [Create React App](#).

Part V - Deploy React App to Surge with a GitHub Workflow

Step 1: Create surge token and add a secret to the GitHub repository



Step 2: Go to the Actions tab in the GitHub repository on github.com and click the set up a workflow yourself link



https://github.com/adil-innovation-lab/project002/new/master?filename=.github%2Fworkflows%2Fmain.yml&workflow_template=blank

github.com/adil-innovation-lab/project002/new/master

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adil-innovation-lab / project002

Unwatch 1 Star 0 Fork 0

<> Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security 0 Insights Settings

project002 / .github / workflows / Deploy_Surge.yml Cancel Start commit

<> Edit new file Preview Spaces 2 No wrap

```
1 # This is a basic workflow to help you get started with Actions
2
3 name: CI
4
5 # Controls when the action will run. Triggers the workflow on push or pull request
6 # events but only for the master branch
7 on:
8   push:
9     branches: [ master ]
10  pull_request:
11    branches: [ master ]
12
13 # A workflow run is made up of one or more jobs that can run sequentially or in parallel
14 jobs:
15   # This workflow contains a single job called "build"
16   build:
17     # The type of runner that the job will run on
18     runs-on: ubuntu-latest
19
20     # Steps represent a sequence of tasks that will be executed as part of the job
21     steps:
22       # Checks-out your repository under $GITHUB_WORKSPACE, so your job can access it
```

Use Control + Space to trigger autocomplete in most situations.

Marketplace Documentation

Search Marketplace for Actions

Featured Actions

- Cache** 1.1k
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time
- Setup Java JDK** 185
By actions
Set up a specific version of the Java JDK and add the command-line tools to the PATH
- Close Stale Issues** 184
By actions
Close issues and pull requests with no recent activity

Step 3: Write the YAML for the workflow

github.com/adil-innovation-lab/project002/new/master

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project002 / .github / workflows / Deploy_Surge.yml Cancel Start commit

<> Edit new file Preview Spaces 2 No wrap

```
25 # Install NodeJS
26 - name: Install NodeJS
27   uses: actions/setup-node@v2-beta
28   with:
29     node-version: 12
30
31 # Install Yarn
32 - uses: borales/actions-yarn@v2.0.0
33   with:
34     cmd: install # will run 'yarn install' command
35
36 # Build React App with Yarn
37 - name: Build React App
38   run: yarn build
39
40 # Install Surge
41 - name: Install Surge
42   run: npm install --global surge
43
44 # Deploy Surge
45 - name: Deploy React App to Surge
46   run: surge ./build project002-adil.surge.sh --token ${ secrets.SURGE_TOKEN }
```

Use Control + Space to trigger autocomplete in most situations.

Marketplace Documentation

Search Marketplace for Actions

Featured Actions

- Cache** 1.1k
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adil-innovation-lab / project002

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33   with:
34     cmd: install # will run `yarn install` command
35
36 # Build React App with Yarn
37 - name: Build React App
38   run: yarn build
39
40 # Install Surge
41 - name: Install Surge
42   run: npm install --global surge
43
44 # Deploy Surge
45 - name: Deploy React App to Surge
46   run: surge ./build project002-adil.surge.sh --token ${ secrets.SURGE_TOKEN }}
```

Use **Control** + **Space** to trigger autocomplete in most situations.

Marketplace Documentation

Search Marketplace for Actions

Featured Actions

- Cache** 1.1k
By actions
Cache artifacts like dependencies and build outputs to improve workflow execution time
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By actions
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By actions
Close issues and pull requests with no recent activity

Step 4: Commit the workflow to the master branch

github.com/adil-innovation-lab/project002/new/master

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project002 / .github / workflows / Deploy_Surge.yml Cancel Start commit

<> Edit new file Preview Spaces 2 No wrap

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26 - name: Install NodeJS
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28   with:
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30
31 # Install Yarn
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33   with:
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36 # Build React App with Yarn
37 - name: Build React App
38   run: yarn build
39
40 # Install Surge
41 - name: Install Surge
42   run: npm install --global surge
43
44 # Deploy Surge
45 - name: Deploy React App to Surge
46   run: surge ./build project002-adil.surge.sh --token ${ secrets.SURGE_TOKEN }}
```

Use **Control** + **Space** to trigger autocomplete in most situations.

Commit new file

Created Workflow Deploy_Surge.yml

Created a workflow to deploy the react app to Surge

☒ Commit directly to the **master** branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

Commit new file

Close Stale Issues 184
By actions
Close issues and pull requests with no recent activity

Step 5: Check the Actions tab for the workflow to deploy successfully

The screenshot shows the GitHub Actions interface for a workflow named 'Deploy React App to Surge'. The workflow is currently running on the 'master' branch with commit 'ab8dcd3'. The 'Actions' tab is selected, showing a list of jobs. The 'build' job is highlighted, and its logs are displayed on the right. The logs show a successful execution of the workflow, with all steps passing.

Created Workflow Deploy_Surge.yml

master ab8dcd3

Re-run jobs

Deploy React App to Surge / build

succeeded now in 1m 36s

Search logs

Step	Duration
Set up job	3s
Build boraes/actions-yarn@v2.0.0	13s
Run actions/checkout@v2	6s
Install NodeJS	0s
Run boraes/actions-yarn@v2.0.0	41s
Build React App	13s
Install Surge	17s
Deploy React App to Surge	3s
Post Run actions/checkout@v2	0s
Complete job	0s

Part VI - Learn React

<https://daveceddia.com/react-tutorial/>

Part VII - Report Project Completed as an Issue



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Adil Altaf submitting assignment #1

[Open](#) [adil-innovation-lab](#) opened this issue 2 minutes ago · 0 comments



adil-innovation-lab commented 2 minutes ago

GitHub Repo URL: <https://github.com/adil-innovation-lab/project002>
Surge URL: <http://project002-adil.surge.sh>

Write

Preview

H B I         

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

[Close issue](#) [Comment](#)

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet