

CheckMate V2

Tip: Fixing this error: - options.allowedHosts[0] should be a non-empty string.

Tip: Fixing Macbook deploy issues

Tip: Comparing both versions of CheckMate

Tip: Running VSCode from command in terminal on mac m1

Tip: Using Google Meet for meetings

Tip: Getting the solution run in a docker container

Tip: Deploying to Heroku (Got it to work)

Tip: Splitting out the webservice to Heroku

<https://shrouded-gorge-59241.herokuapp.com/#/>

Tip: Splitting out the webservice to Heroku

Web service URL

<https://pure-gorge-49930.herokuapp.com/>

Modify your server.js

```
27 //primary CheckMate Routes
28 //http://localhost:5500/api/users
29 app.use('/api/users', require('./routes/api/users'));
30 //http://localhost:5500/api/auth
31
32 app.use('/api/auth', require('./routes/api/auth'));
33 //http://localhost:5500/api/pharma
34 app.use('/api/pharma', require('./routes/api/pharma'));
35 //http://localhost:5500/api/medicalGroup
36 app.use('/api/medicalGroup', require('./routes/api/medicalGroup'));
37 //http://localhost:5500/api/physicians
38 app.use('/api/physicians', require('./routes/api/physicians'));
39 //http://localhost:5500/api/manager
40 app.use('/api/manager', require('./routes/api/manager'));
41 //http://localhost:5500/api/rep
42 app.use('/api/rep', require('./routes/api/rep'));
43 //http://localhost:5500/api/receipt
44 app.use('/api/receipt', require('./routes/api/receipt'));
45
46
47 /*
48 //Server static assets in production
49 if(process.env.NODE_ENV === 'production')
50 {
51     //Set static folder (our public folder) - dist = VUE JS/ build = react
52     app.use(express.static('client/build'));
53     app.get('*', (req,res) => {
54         res.sendFile(path.resolve(__dirname, 'client', 'build', 'index.html'));
55     })
56 }
57 */
58 // You, 1 second ago • Uncommitted changes
59
60 //HEROKU LOOKS AT THE process.env.PORT
61 const PORT = process.env.PORT || 5500;
62
63 app.listen(PORT, () => console.log(`Server started on port ${PORT}`));
```

And your package.json

The screenshot shows the Visual Studio Code editor with the 'package.json' file open. The file contains the following JSON structure:

```
{
  "name": "checkmateservice",
  "version": "1.0.0",
  "description": "Check Mate Service (2022)",
  "main": "server.js",
  "scripts": {
    "start": "node server"
  },
  "author": "Lionel Jones",
  "license": "MIT",
  "dependencies": {
    "bcryptjs": "^2.4.3",
    "config": "^3.3.7",
    "cors": "^2.8.5",
    "express": "^4.18.1",
    "express-validator": "^6.14.2",
    "gravatar": "^1.8.2",
    "jsonwebtoken": "^8.5.1",
    "mongoose": "^6.4.6",
    "mongoose-unique-validator": "^3.1.0",
    "request": "^2.88.2"
  },
  "devDependencies": {
    "concurrently": "^7.5.0",
    "nodemon": "^2.0.20"
  }
}
```

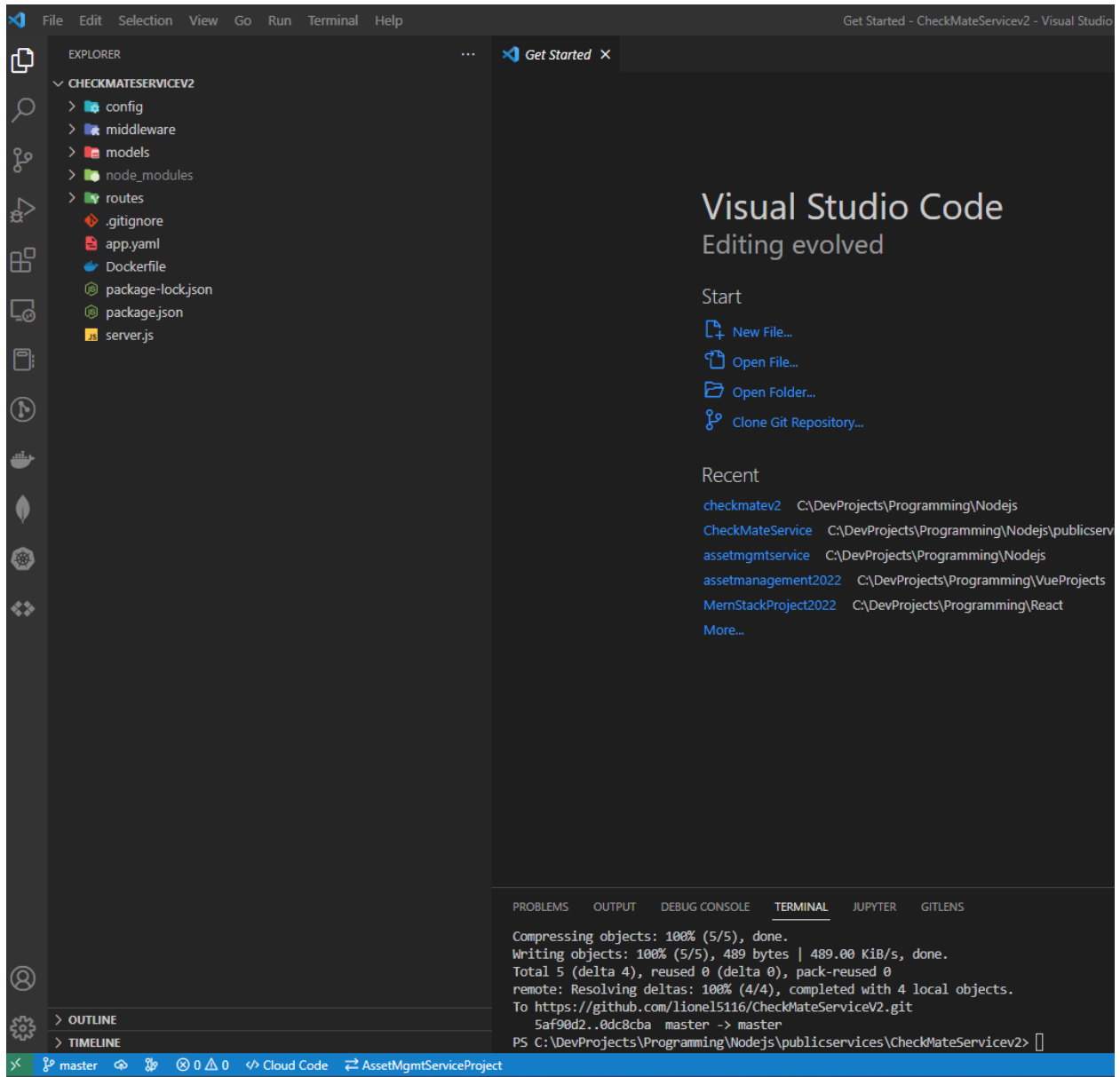
<https://pure-gorge-49930.herokuapp.com/api/pharma/searchPharmaRecord>

The screenshot shows a REST client interface with a POST request to `https://pure-gorge-49930.herokuapp.com/api/pharma/searchPharmaRecord`. The request body is a JSON object:

```
{
  "Name": "Memorial Health",
  "Email": "mmhealth@gmail.com",
  "SearchType": "Name"
}
```

The response is also in JSON format, showing a list of search results:

```
{
  "pharma": [
    {
      "_id": "63549190fe74bf0a27dcfa5",
      "Name": "Memorial Health",
      "Phone": "713-654-0987",
      "Email": "mmhealth@gmail.com",
      "Password": "1234567",
      "Notes": "Good Pharma Company and I will stay employed with them",
      "__v": 0
    }
  ]
}
```



Placed it in the project and it works

Search Pharmaceutical Companies

Enter Search Criteria

All

Email Enter Email

Name Name

Search Records

Search Results

_id	Name	Phone	Email	Edit	Delete
63549190fe74bf00a27dca5	Memorial Health	713-654-0987	mmhealth@gmail.com		
6354a04dd5e97ead84326278	Herman Hospital System	713-876-0987	corsonmemorial@gmail.com		

Showing rows 1 to 2 of 2

1

Changed url to point to the service on Heroku

.env - checkmatev2 - Visual Studio Code

```
client > .env
You, 4 minutes ago | 2 authors (p00149021@houstonisd.org Mag17615@7 and others)
1 #https://cstroman.medium.com/using-environment-variables-with-react-webpack-c7a04bbf833e
2 REACT_APP_API_KEY = 123-123-123
3 REACT_APP_API_BASE = ''
4 #using port 5500
5 #REACT_APP_SERVICE_URL = 'http://localhost:5500/api'
6 #dont need the api for the heroku deployed service
7 REACT_APP_SERVICE_URL = 'https://pure-gorge-49930.herokuapp.com/api'
```

And it works!!!!

lione5116/CheckMateServiceV2 xshrouded-gorge-59241 | Heroku xReact App x+

shrouded-gorge-59241.herokuapp.com/#/SearchPharma

heck MateHomeMedical Office LocationsPhysicians RecordsManagers Reps ReceiptsReportsAdministrationREDUX AUTH TEST

Search Pharmaceutical Companies

Enter Search Criteria

All

Email

Enter Email

Name

Name

Search Records

Search Results

_id	Name	Phone	Email	Edit	Delete
63549190fe74bf00a27dcfa5	Memorial Health	713-654-0987	mmhealth@gmail.com		
6354a04dd5e97ead84326278	Herman Hospital System	713-876-0987	corsonmemorial@gmail.com		

10

Showing rows 1 to 2 of 2

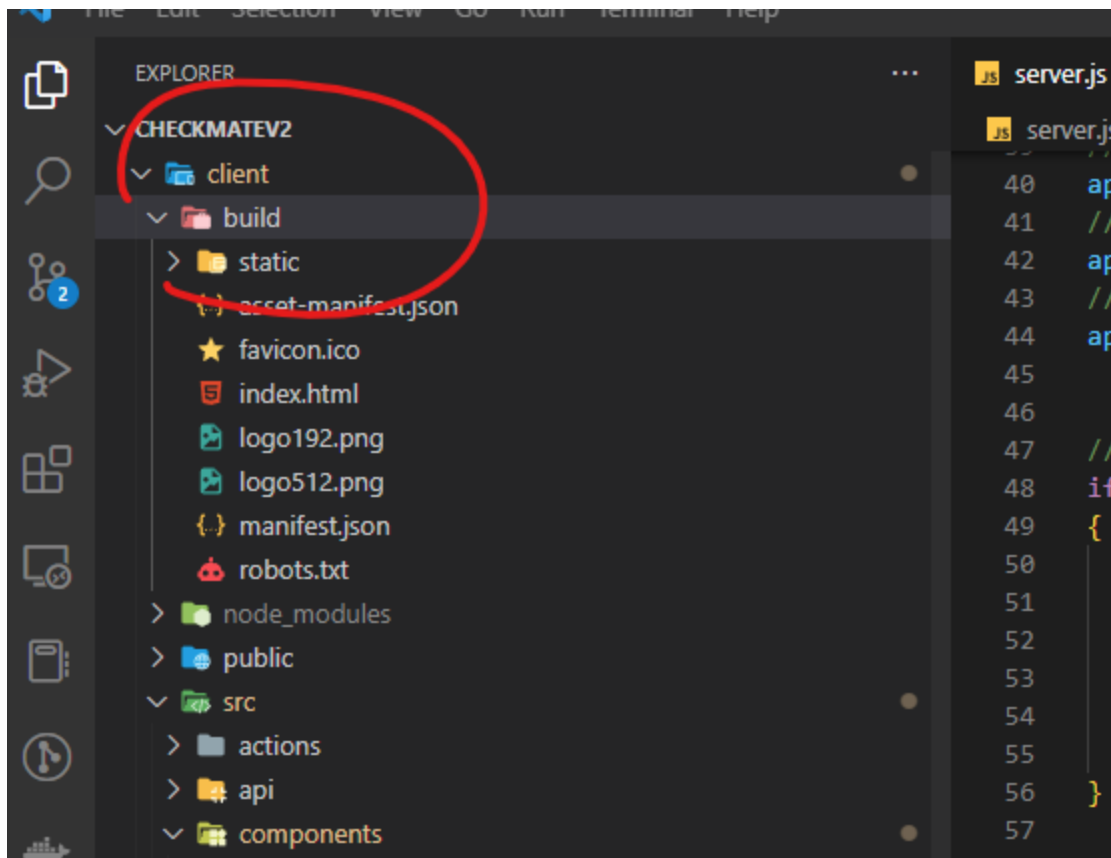
1

Tip: Deploying to Heroku (Got it to work)

Deploying to Heroku is super easy!!!

Most important step, do a build first to see where what your build location is:

npm run build



This determines lines 48 and 51 below

I made this mistake before, the /dist folder is when you are building a VUEJS app, like my assetmgmt2022 **creates VERY IMPORTANT !!!!!!!**

```
40 app.use('/api/manager', require('./routes/api/manager'));
41 //http://localhost:5500/api/rep
42 app.use('/api/rep', require('./routes/api/rep'));
43 //http://localhost:5500/api/receipt
44 app.use('/api/receipt', require('./routes/api/receipt'));
45
46
47 //Server static assets in production
48 if(process.env.NODE_ENV === 'production')
49 {
50   //Set static folder (our public folder) - dist = VUE JS/ build = react
51   app.use(express.static('client/build'));
52   app.get('*', (req, res) => {
53     res.sendFile(path.resolve(__dirname, 'client', 'build', 'index.html'));
54   })
55 }
56
57
58
59 //HEROKU LOOKS AT THE process.env.PORT
```

Next you do:

Heroku login

Heroku create

It creates a repo

Go to deploy on the dashboard

Install the Heroku CLI

Download and install the [Heroku CLI](#).

If you haven't already, log in to your Heroku account and follow the prompts to create a new SSH public key.

```
$ heroku login
```

Clone the repository

Use Git to clone shrouded-gorge-59241's source code to your local machine.

```
$ heroku git:clone -a shrouded-gorge-59241
$ cd shrouded-gorge-59241
```

Deploy your changes

Make some changes to the code you just cloned and deploy them to Heroku using Git.

```
$ git add .
$ git commit -am "make it better"
$ git push heroku master
```

Follow the instructions, do a

heroku git:remote -a shrouded-gorge-59241

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\DevProjects\Programming\Nodejs\checkmatev2> heroku git:remote -a shrouded-gorge-59241
set git remote heroku to https://git.heroku.com/shrouded-gorge-59241.git
```

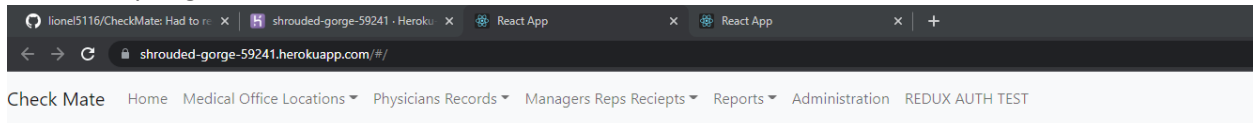
Then do a

git add .

git commit -am "make it better"

git push heroku master

And there you go



CheckMate Login Screen

Enter your Login Credentials

Email address

Password

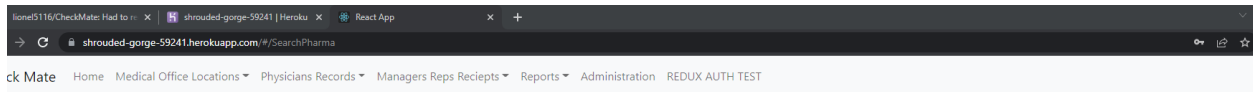
[Sign In](#)

[Dont' have an account](#) [Sign Up](#)

<https://shrouded-gorge-59241.herokuapp.com/#/>

Ahd it WORKS!!!!

It took time for the service to start (I hit the endpoint to quick)



Search Pharmaceutical Companies

Enter Search Criteria

Email

Name

[Search Records](#)

Search Results

_id	Name	Phone	Email	Edit	Delete
63549190fe74bf00a27dcfa5	Memorial Health	713-654-0987	mmhealth@gmail.com		
6354a04dd5e97ead84326278	Herman Hospital System	713-876-0987	corsonmemorial@gmail.com		

Showing rows 1 to 2 of 2

Tip: Getting the solution run in a docker container

```
1 #docker build -t checkmateappv2:latest .
2 #A
3 FROM node:16
4
5 #copy over main server file
6 #B
7 COPY server.js /server.js
8
9 COPY package*.json ./
10
11
12 #E
13 EXPOSE 5500 3000
14
15 #C copy directories for client
16 COPY client/ /client
17
18 #copy directories for service
19 #C
20 COPY config/ /config
21 COPY middleware/ /middleware
22 COPY models/ /models
23 COPY routes/ /routes
24
25
26 #F npm install on server
27 RUN npm install
28
29 #F npm install on the client
30 RUN npm install --force --prefix client
31 RUN npm run build --prefix client
32
33 #D
34 #ENTRYPOINT ["npm", "start"]
35 #ENTRYPOINT ["node", "server.js"]
36 ENTRYPOINT ["npm", "run", "dev"]
37
38 #A The base image to build upon
```

Notice line 13, this is how you expose both ports
3000 is for the client app
5500 is for the NodeJS app

Line 16 is copying the client folder's contents

line 30 ad 31 runs the install and build of the react app

line 36 runs your custom command – (npm run dev)

To run the image

```
lioneljones — zsh — 132x33
Last login: Wed Oct 26 09:08:53 on ttys000
lioneljones@MackBookAirM1 ~ % docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
checkmateappv2      latest             7a5366aa0d04       33 seconds ago     1.4GB
assetmgmtsvc        latest            5ed50c8e47cb       12 days ago        902MB
lioneljones@MackBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
d50b54f5f3428acc28cd53e4fc14534d7b97778a5dc5835cae3ea19cbb9f76d
lioneljones@MackBookAirM1 ~ % docker container ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
lioneljones@MackBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
869ace6b2ca1a57fca5f030c99434a1dc5775f2b6cc255a65edd4a9fb07363e1
lioneljones@MackBookAirM1 ~ % docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
6ee37b18d2f490e5fa36ee801df687a9fd4d16e74f2cbc1e17c0ed135ee62276
lioneljones@MackBookAirM1 ~ %
```

To run the image





`docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2`

Containers

[Give Feedback](#)

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Showing 1 items

<input type="checkbox"/>	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	 checkmateappv2-container 6ee37b18d2f4	checkmateappv2:latest	Running	3000,5...	2 minutes agc	  

And it works

localhost:3000/#/SearchPharma

ieck Mate Home Medical Office Locations Physicians Records Managers Reps Reciepts Reports Administration REDUX AUTH TEST

Search Pharmaceutical Companies

Enter Search Criteria

All

Email

Enter Email

Name

Name

Search Records

Search Results

_id	Name	Phone	Email	Edit	Delete
63549190fe74bf00a27dcfa5	Memorial Health	713-654-0987	mmhealth@gmail.com		
6354a04dd5e97ead84326278	Herman Hospital System	713-876-0987	corsonmemorial@gmail.com		

10 Showing rows 1 to 2 of 2

1

To run your image

```
docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2
```

```
docker inspect checkmateappv2-container
```

To grab the id only

```
docker inspect --format="{{.Id}}" checkmateappv2-container
```

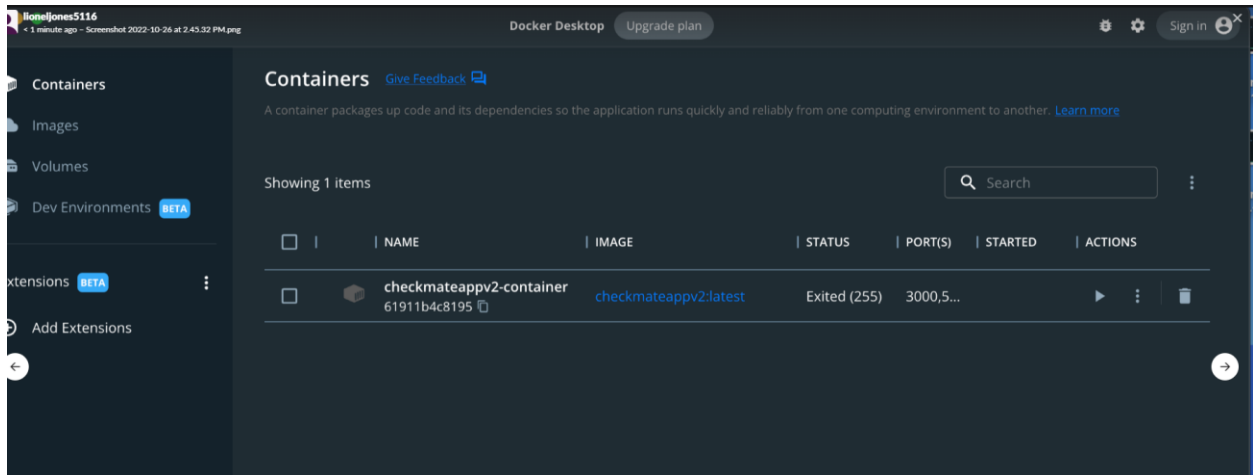
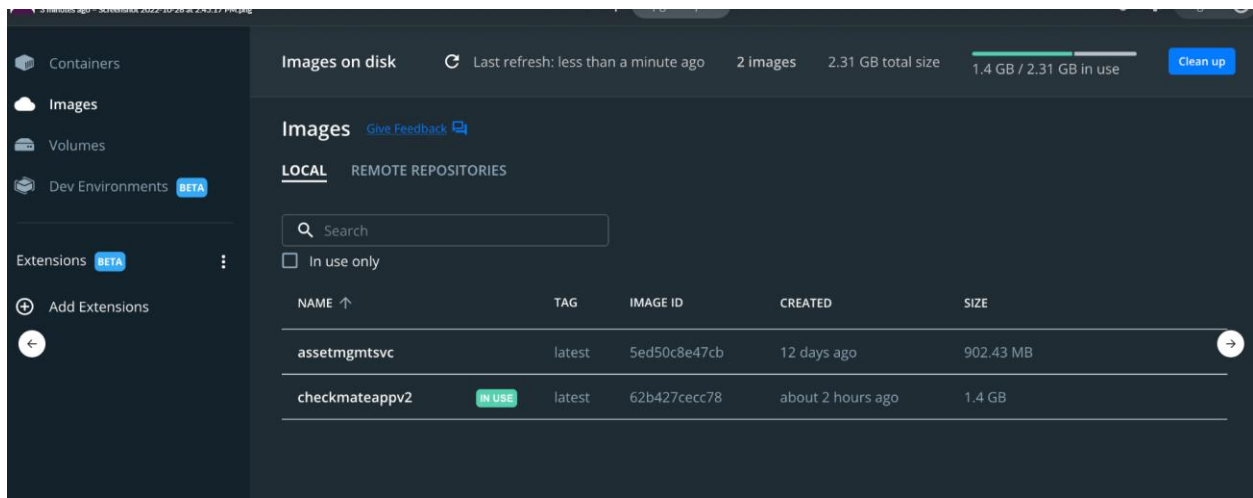
But I get an error (need to research this)

To remove your image

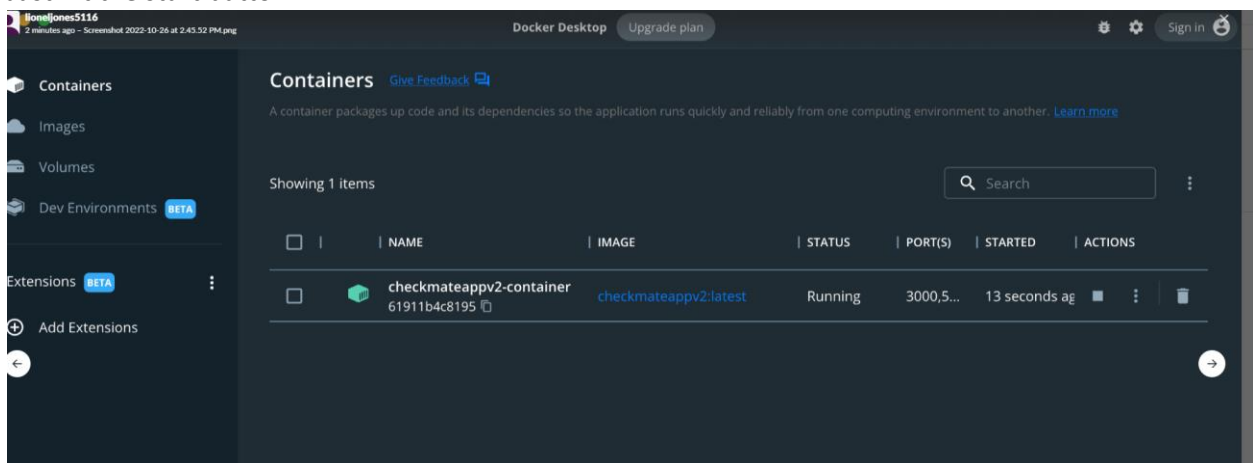
```
docker rm 6ee37b18d2f490e5fa36ee801df687a9fd4d16e74f2cbc1e17c0ed135ee62276
```

Below is the end user process

If you already have a container that your ran. Then you stopped and restarted your machine. The container maintains it's id and configuration. You will see it below



Just hit the start button

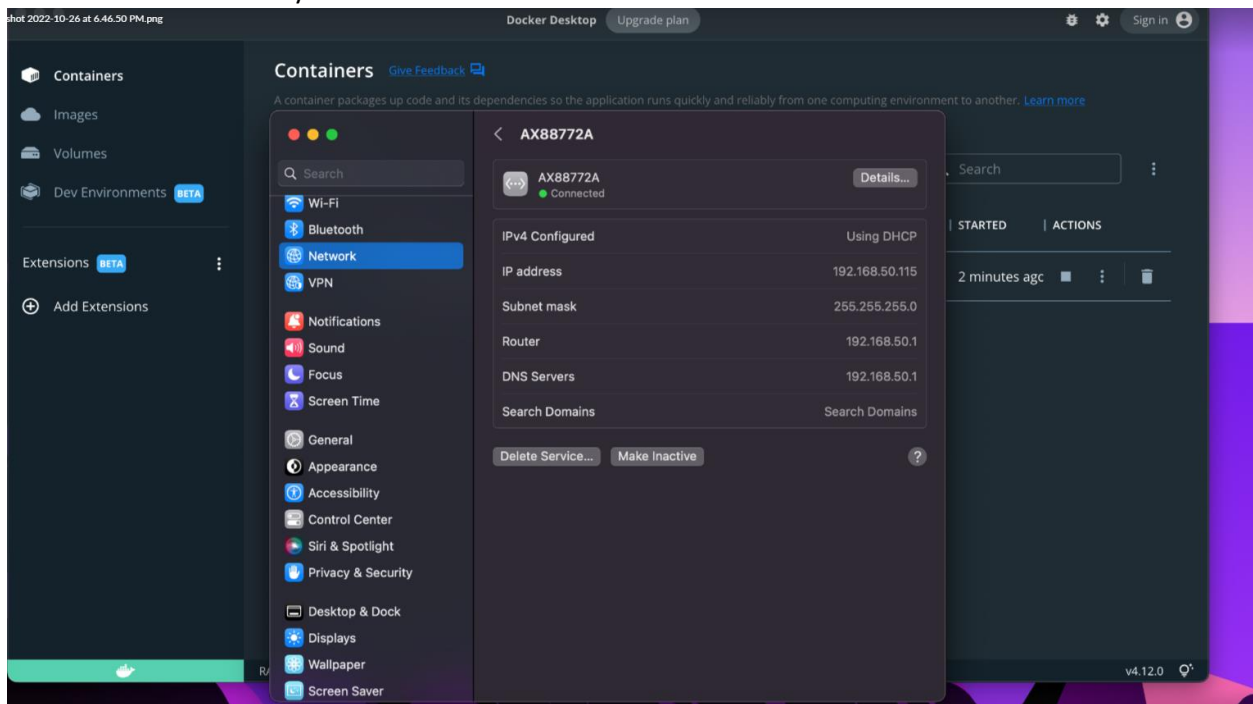


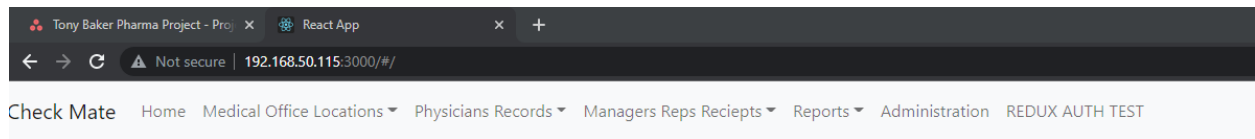
And as you can see below, it still has it's settings

```
lioneljones -- zsh -- 169x27
assetmgmtsvc latest 5ed50c8e47cb 12 days ago 902MB
lioneljones@MacBookAirM1 ~ % cls
zsh: command not found: cls
lioneljones@MacBookAirM1 ~ % clear

lioneljones@MacBookAirM1 ~ % docker container ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
lioneljones@MacBookAirM1 ~ % docker container ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
61911b4c8195  checkmateappv2  "npm run dev"  28 minutes ago  Up 21 seconds  0.0.0.0:3000->3000/tcp, 0.0.0.0:5500->5500/tcp  checkmateappv2-container
lioneljones@MacBookAirM1 ~ %
```

Then I did a test from my MAC at home:





CheckMate Login Screen

Enter your Login Credentials

Email address

Password

Dont' have an account

But it's looking at localhost
Now if you wanted to use the service
This works:

The screenshot displays a REST client interface with a list of requests at the top. The selected request is a POST to `http://192.168.50.115:5500/api/pharma/searchPharmaRecord`. The 'Body' tab is active, showing a JSON payload:

```
1 {
2   "Name": "Memorial Health",
3   "Email": "mmhealth@gmail.com",
4   "SearchType": "Name"
5 }
```

Below the request, the 'Test Results' tab is active, showing the response body in 'Pretty' format. The response is a JSON array containing one object:

```
1 {
2   "pharma": [
3     {
4       "_id": "63549190fe74bf00a27dcfa5",
5       "Name": "Memorial Health",
6       "Phone": "713-654-0987",
7       "Email": "mmhealth@gmail.com",
8       "Password": "1234567",
9       "Notes": "Good Pharma Company and I will stay employed with them",
10      "__v": 0
11    }
12  ]
13 }
```

But the app itself points to localhost (meaning that it thinks it's looking itself)

Tip: Using Google Meet for meetings

Google meet rocks.. it's free and much easier to use than teams, and it's completely free

<https://play.google.com/store/apps/details?id=co...>

Google Meet (original) - Apps on Google Play

Securely connect, collaborate, and celebrate from anywhere. With **Google Meet**, everyone can safely create and join high-quality video meetings for groups of ...

★★★★★ Rating: 4.1 · 2,207,524 votes · Free · Android · Business/Productivity

Videos



How to Use Google Meet - Detailed Tutorial

YouTube · Teacher's Tech

Mar 24, 2020

10 key moments in this video

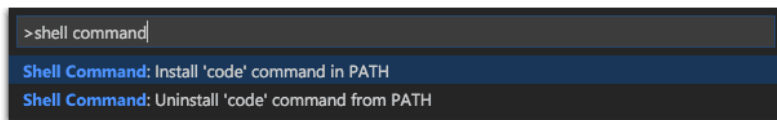
Tip: Running VSCode from command in terminal on mac m1

<https://code.visualstudio.com/docs/setup/mac#:~:text=You%20can%20also%20run%20VS,code'%20command%20in%20PATH%20command.>

Launching from the command line

You can also run VS Code from the terminal by typing 'code' after adding it to the path:

- Launch VS Code.
- Open the Command Palette (`Cmd+Shift+P`) and type 'shell command' to find the **Shell Command:** Install 'code' command in PATH command.



- Restart the terminal for the new `$PATH` value to take effect. You'll be able to type 'code .' in any folder to start editing files in that folder.

- [Tweet this link](#)
- [Subscribe](#)
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- [Follow @code](#)
- [Request features](#)
- [Report issues](#)
- [Watch videos](#)

Tip: Comparing both versions of CheckMate

CheckMateV2 is my favorite:

Pros: It's a smaller bundle (it does not use more webpack (ver 5)), it builds 200% faster

When you make changes, it reloads faster.

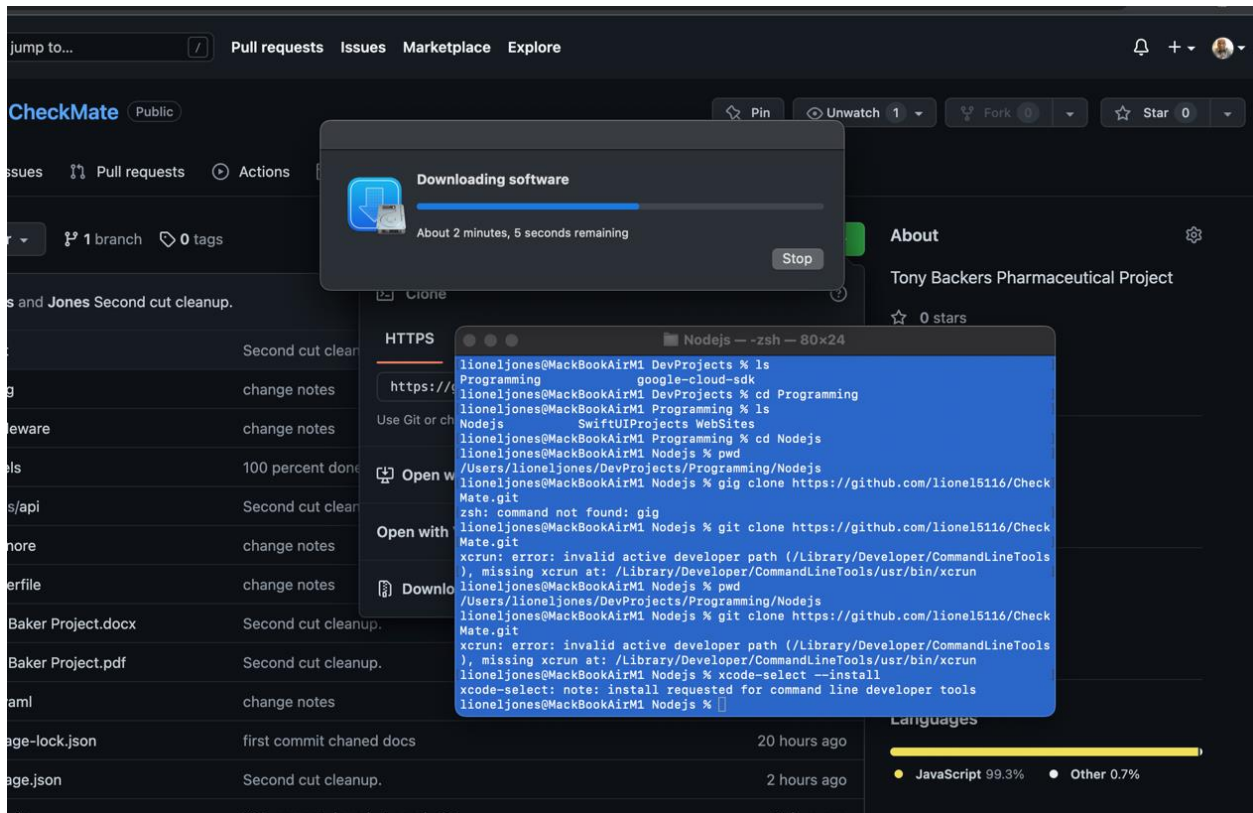
It does crash when you deploy to Heroku

Cons:

It has a huge set of warnings with bootstrapablenext (but it still works tho)

Tip: Fixing Macbook deploy issues

For the error below when trying to clone the repo



I had to run the command to update my xcode tools
xcode-select --install

This is common everywhere

```
Screenshot 2022-10-25 at 4.06:58 PM.png
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS JUPYTER

lioneljones@MackBookAirM1 client % npm install
npm ERR! code ERESOLVE
npm ERR! ERESOLVE could not resolve
npm ERR!
npm ERR! While resolving: babel-loader@7.1.5
npm ERR! Found: webpack@5.39.1
npm ERR! node_modules/webpack
npm ERR!   dev webpack@"^5.39.1" from the root project
npm ERR!   peer webpack@"4.x.x || 5.x.x" from @webpack-cli/configtest@1.0.4
npm ERR!     node_modules/@webpack-cli/configtest
npm ERR!       @webpack-cli/configtest@"^1.0.4" from webpack-cli@4.7.2
npm ERR!         node_modules/webpack-cli
npm ERR!           dev webpack-cli@"^4.7.2" from the root project
npm ERR!       3 more (@webpack-cli/configtest, @webpack-cli/info, @webpack-cli/serve)
npm ERR!       6 more (css-loader, dotenv-webpack, terser-webpack-plugin, ...)
npm ERR! Could not resolve dependency:
npm ERR! peer webpack@"2 || 3 || 4" from babel-loader@7.1.5
npm ERR!   node_modules/babel-loader
npm ERR!     dev babel-loader@"^7.1.5" from the root project
npm ERR! Conflicting peer dependency: webpack@4.46.0
npm ERR!   node_modules/webpack
npm ERR!     peer webpack@"2 || 3 || 4" from babel-loader@7.1.5
npm ERR!       node_modules/babel-loader
npm ERR!         dev babel-loader@"^7.1.5" from the root project
npm ERR! Fix the upstream dependency conflict, or retry
npm ERR! this command with --force, or --legacy-peer-deps
npm ERR! to accept an incorrect (and potentially broken) dependency resolution.
npm ERR! See /Users/lioneljones/.npm/eresolve-report.txt for a full report.

npm ERR! A complete log of this run can be found in:
npm ERR! /Users/lioneljones/.npm/_logs/2022-10-25T21_06_16_047Z-debug-0.log
lioneljones@MackBookAirM1 client %
```

see the message

`npm install --force`

I have to use this everywhere, even in my deploy scripts for Heroku

Tip: Fixing this error: - options.allowedHosts[0] should be a non-empty string

While doing npm run start, I was getting ERRORS , no matter what I did. The way I fixed it was to remove the proxy entry from the package.json file

```
49     not op_mini all
50   ],
51   "development": [
52     "last 1 chrome version",
53     "last 1 firefox version",
54     "last 1 safari version"
55   ]
56 }
57
58
```

I am not use a proxy anymore anyway.

I decided to create another version of the app without webpack – causing too many issues

<https://reactjs.org/docs/create-a-new-react-app.html>

<https://react-bootstrap.github.io/getting-started/introduction/>

npm install react-bootstrap bootstrap

In Index.js

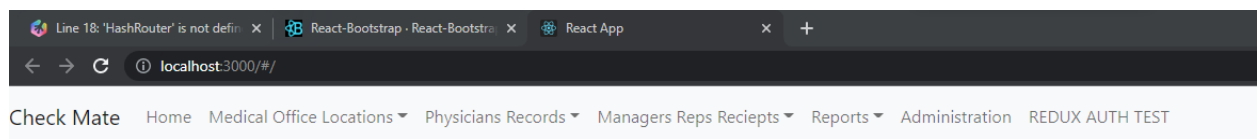
```
index.js - checkmatev2 - Visual Studio Code
index.js M x  NavbarMain.js U  App.js M
src > index.js > ...
You, 1 second ago | 2 authors (p00149021@houstonisd.org Mag17615@7 and others)
1 import 'bootstrap/dist/css/bootstrap.min.css';
2 import 'bootstrap/dist/js/bootstrap.bundle.min';
3 import React from 'react';
4 import ReactDOM from 'react-dom/client';
5 import './index.css';
6 import App from './App';
7 import reportWebVitals from './reportWebVitals';
8
9 const root = ReactDOM.createRoot(document.getElementById('root'));
10 root.render(
11   <React.StrictMode>
12     <App />
13   </React.StrictMode>
14 );
15
16 // If you want to start measuring performance in your app, pass a function
17 // to log results (for example: reportWebVitals(console.log))
18 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
19 reportWebVitals();
20
```

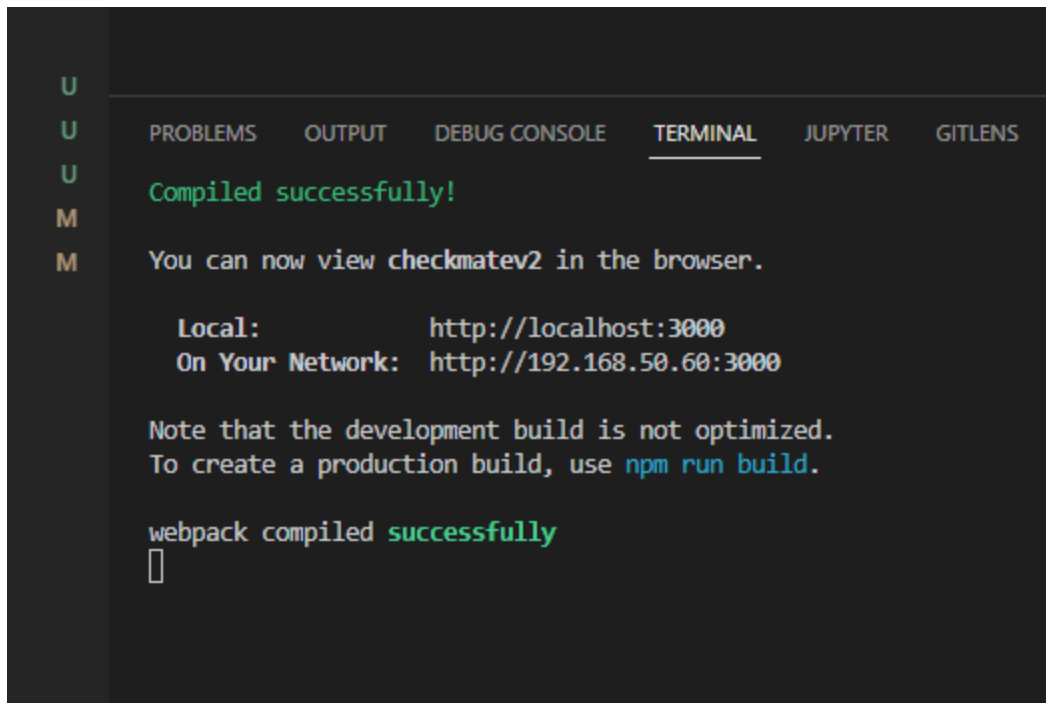
And so far, no warnings

```
npm install react-router-dom --save
```

```
npm install react-router-dom@5.2.0 react-router@5.2.0
```

And this is all we need to do to get the initial bootstrap to work





The image shows a screenshot of the Visual Studio Code (VS Code) interface. On the left, there is a sidebar with a file explorer showing a directory structure with files named 'U', 'U', 'U', 'M', and 'M'. The main area of the editor displays the 'TERMINAL' tab, which contains the following text:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  GITLENS

Compiled successfully!

You can now view checkmatev2 in the browser.

Local:      http://localhost:3000
On Your Network: http://192.168.50.60:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
█
```

npm i axios

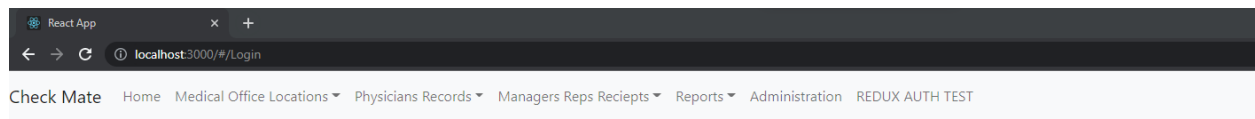
npm i redux-devtools-extension

Install all of this for REDUX

npm i react-router-dom redux react-redux redux-thunk moment react-moment

And after adding REDUX, it still builds fast

I have the base code:



CheckMate Login Screen

Enter your Login Credentials

Email address

Password

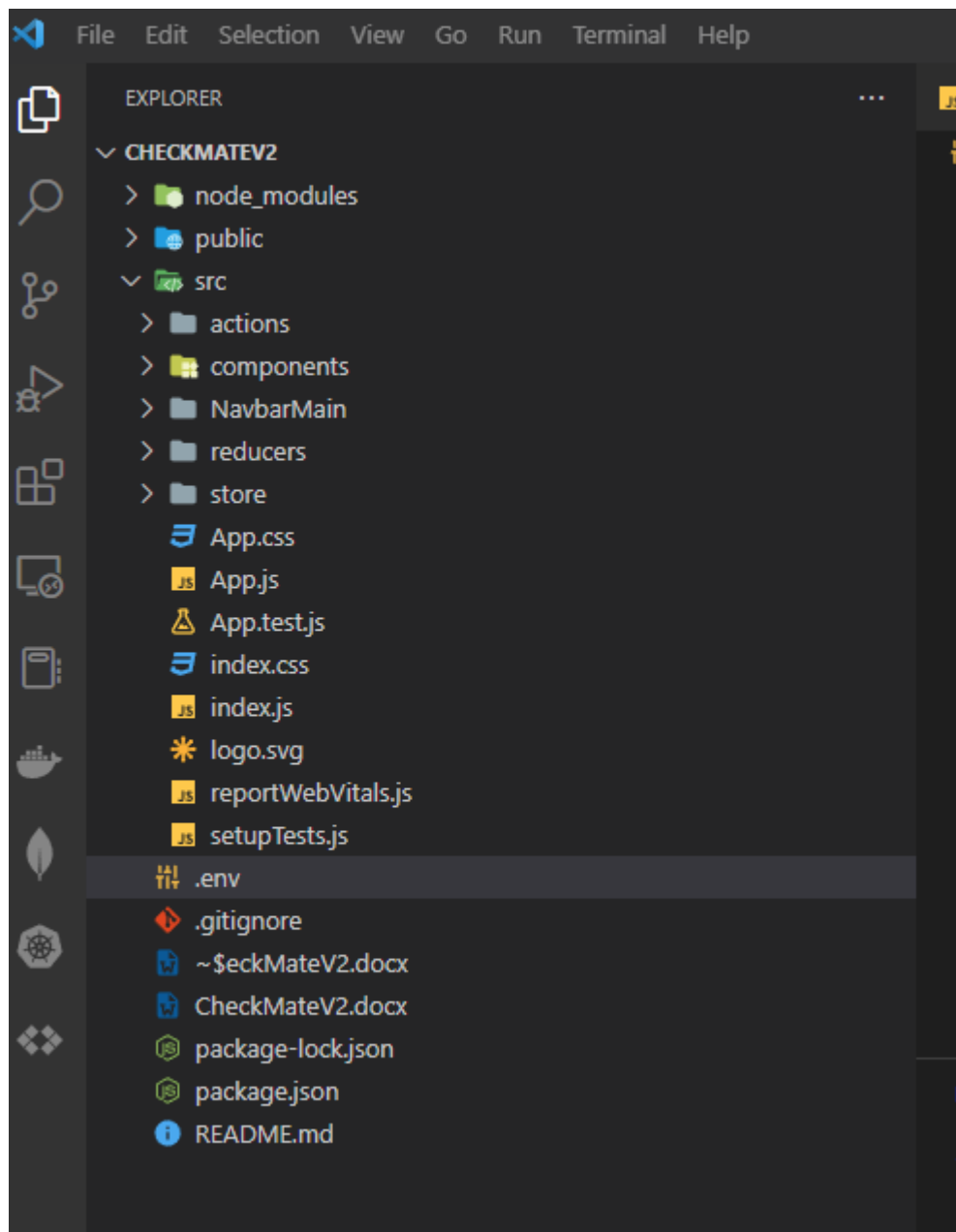
Sign In

Don't have an account [Sign Up](#)

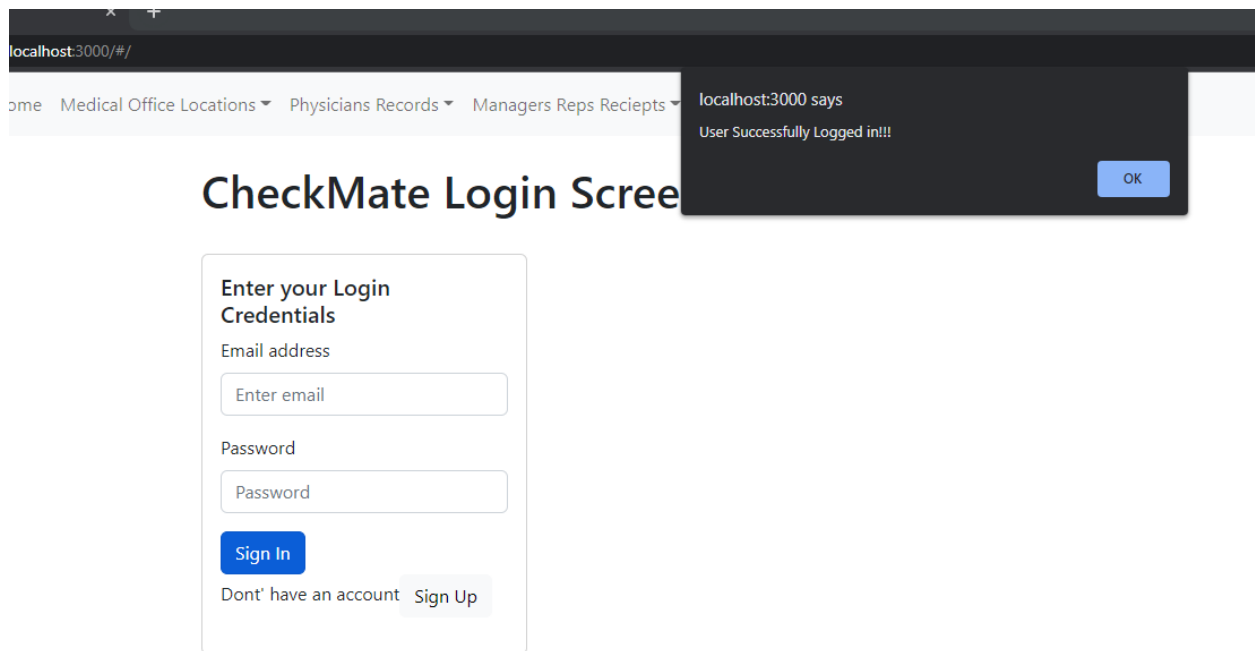
And its lightning fast

To allow for environment variables
npm i env-cmd

Make sure you put it at the root



So the login screen and register screen is finished



For the bootstrap tables, I had to use the `--force` with it

```
10     "bootstrap": "^5.2.2",
11     "env-cmd": "^10.1.0",
12     "moment": "^2.29.4",
13     "react": "^18.2.0",
14     "react-bootstrap": "^2.5.0",
15     "react-bootstrap-table-next": "^4.0.3",
16     "react-bootstrap-table2-filter": "^1.3.3",
17     "react-bootstrap-table2-paginator": "^2.1.2",
18     "react-bootstrap-table2-toolkit": "^2.1.3",
19     "react-dom": "^18.2.0",
20     "react-moment": "^1.1.2",
```

i.e `npm install react-bootstrap-table2-toolkit --force`
`npm i uuid`