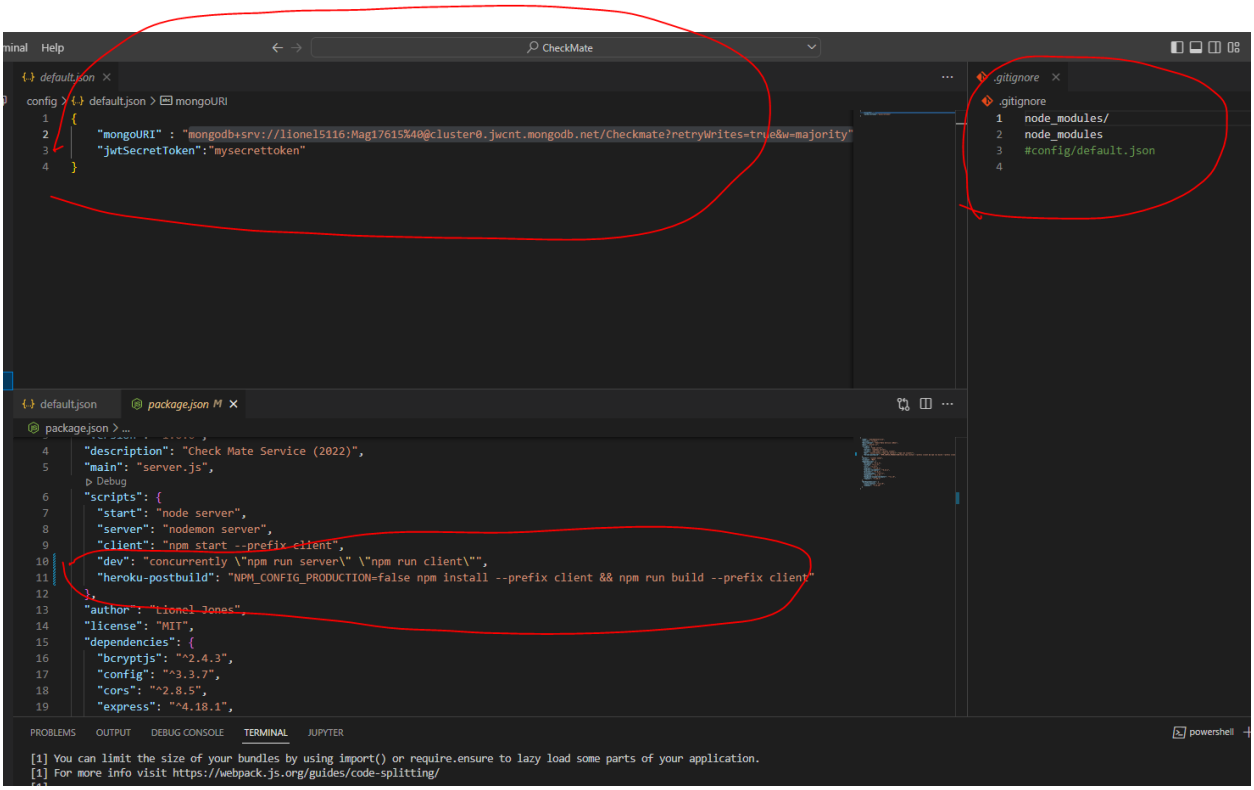
Deployment Guide – React/NodeJS Apps etc

YOU HAVE TO USE NODE.JS 14.7.5

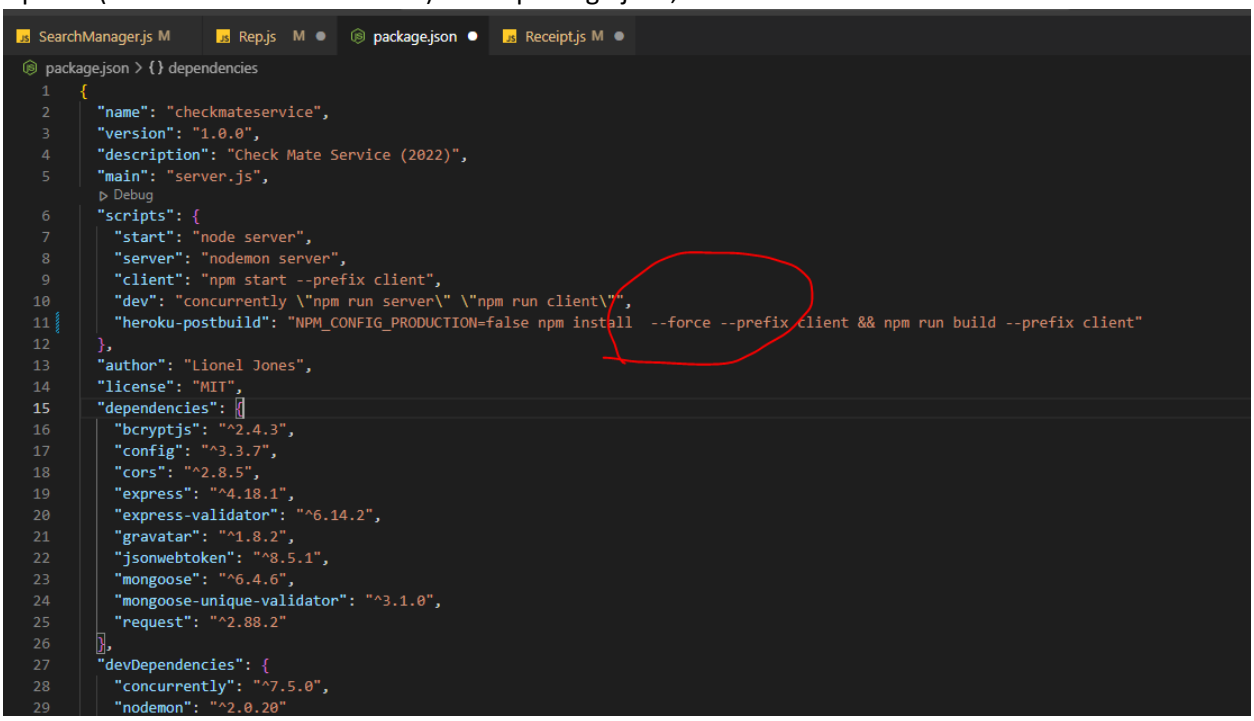
Tip: Deploying to Heroku
Tip: Revisiting Google Cloud again for my assetmgtservice (**Signed up on 10/16/2022)**
Tip: Getting the solution run in a docker container
Tip: Pushing the image to Docker Public Registry – Original (The one below is better)
Tip: Pulling the image to Docker Public Registry (Working with doc exec – python- nano) **** Best one
Tip: Installing a React App with Apache on a MacBook
Tip: FINALLY TO THE CREATE REACT APP TO WORK WHEN DEPLOYING TO IIS (WITHOUT WEBPACK)
Tip: Deploying a reactjs app to Azure

Tip: Deploying to Heroku
These steps are followed from my other two deployments

We modify our first three files as shown below:



Update (You have to use the –force) in the package.json, or Heroku will error out



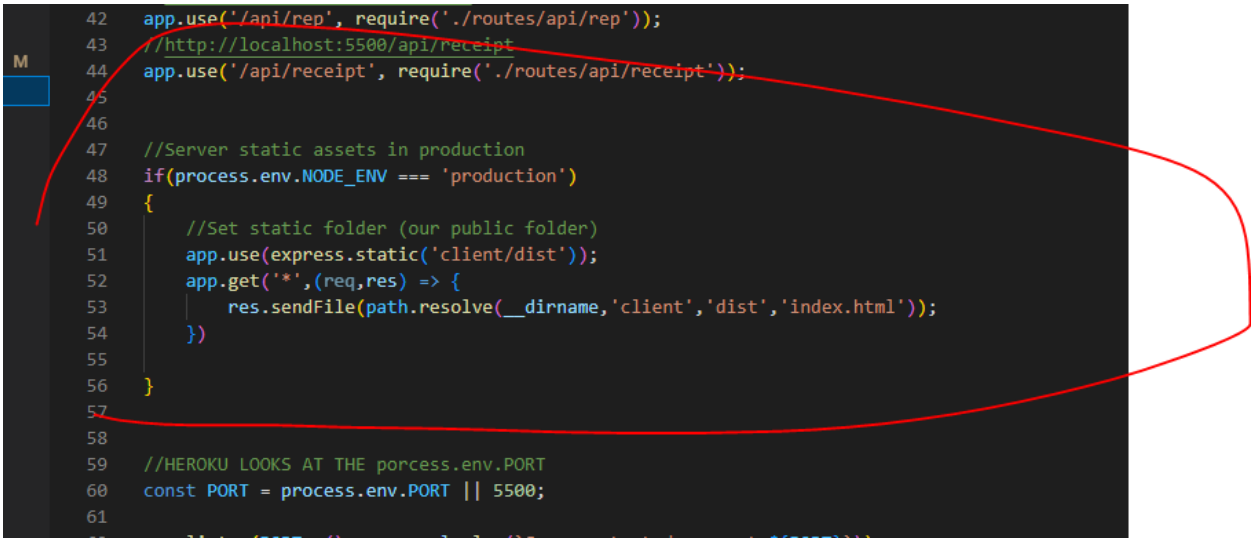
default.json
.gitignore

package.json

See your AssetManagemt2022 for the correct content

> The Heroku tag we entered tells Heroku once we push it to Heroku to run npm install to install dependencies for each project and then run npm run build to build the project, and when it build the project, it will put everything in the client folder of our project.

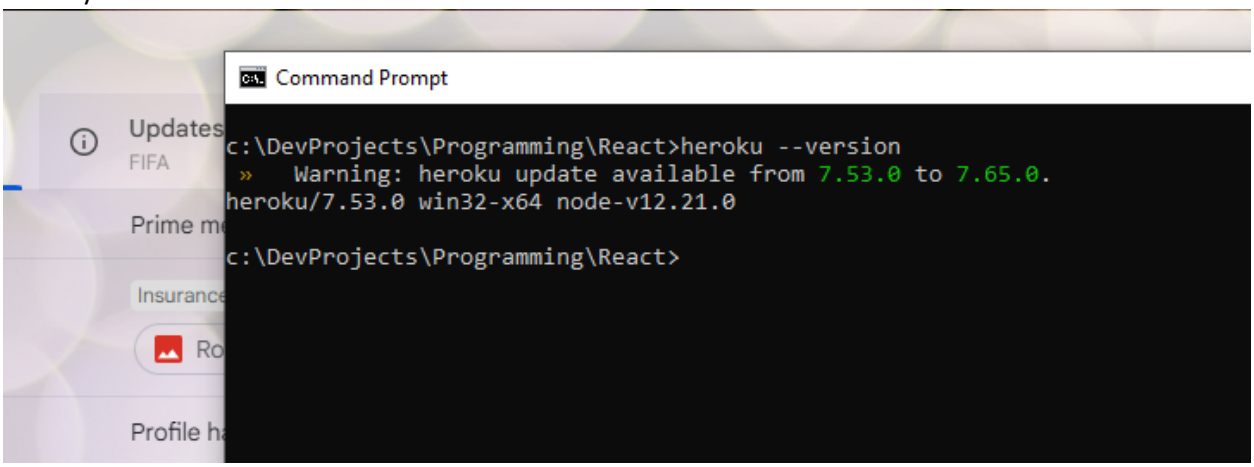
Then in your server.js file:



```
app.use('/api/rep', require('./routes/api/rep'));
//http://localhost:5500/api/receipt
app.use('/api/receipt', require('./routes/api/receipt'));


//Server static assets in production
if(process.env.NODE_ENV === 'production')
{
    //Set static folder (our public folder)
    app.use(express.static('client/dist'));
    app.get('*',(req,res) => {
        res.sendFile(path.resolve(__dirname,'client','dist','index.html'));
    })

}

//HEROKU LOOKS AT THE porcess.env.PORT
const PORT = process.env.PORT || 5500;
```

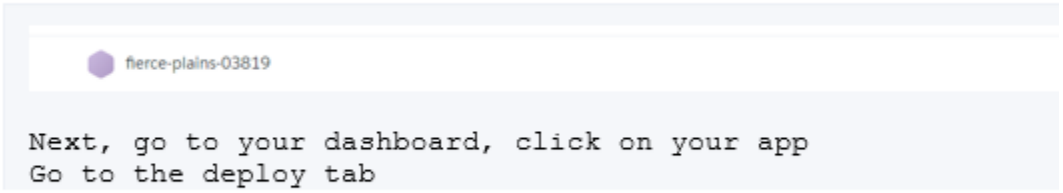
Next at the terminal, do a Heroku login
Heroku login

Check your version



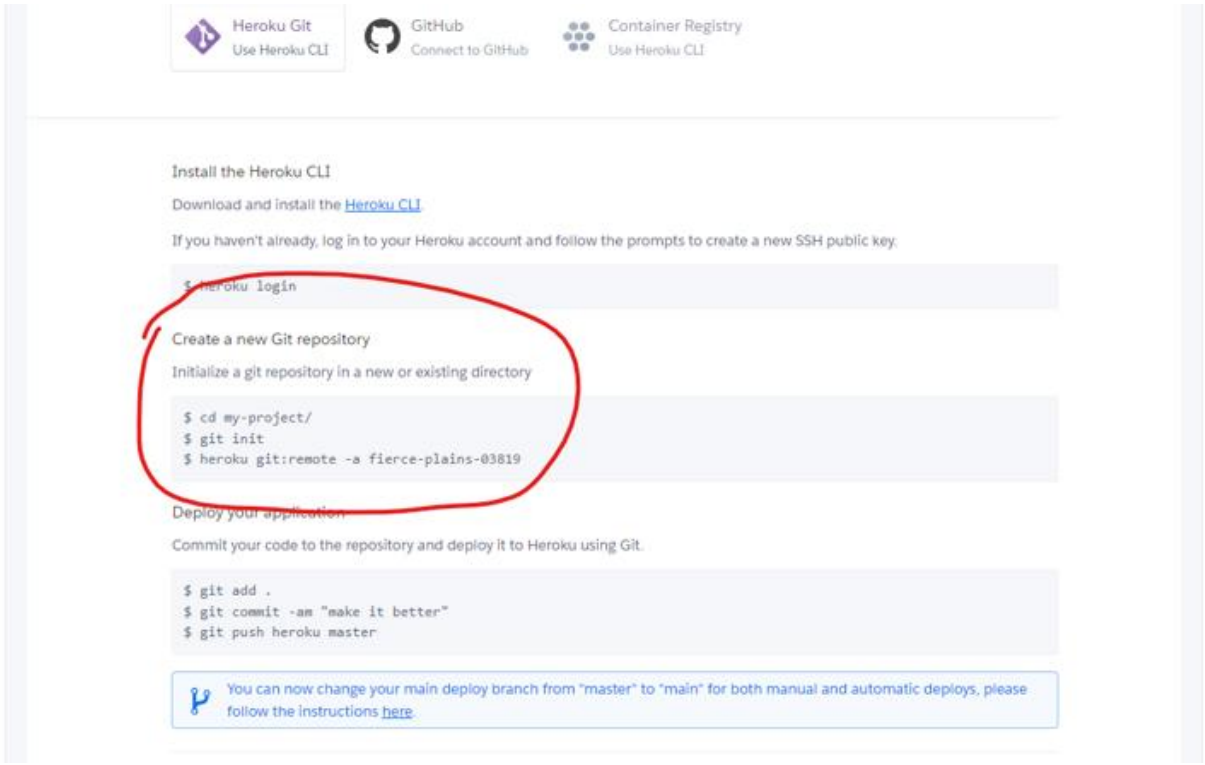
Next create an app
Heroku create

If you go to the dashboard, you will see the app



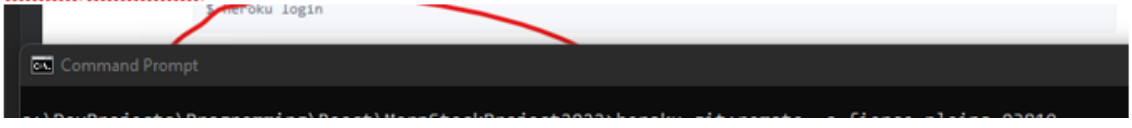
Next, go to your dashboard, click on your app
Go to the deploy tab

Go to the deploy tab

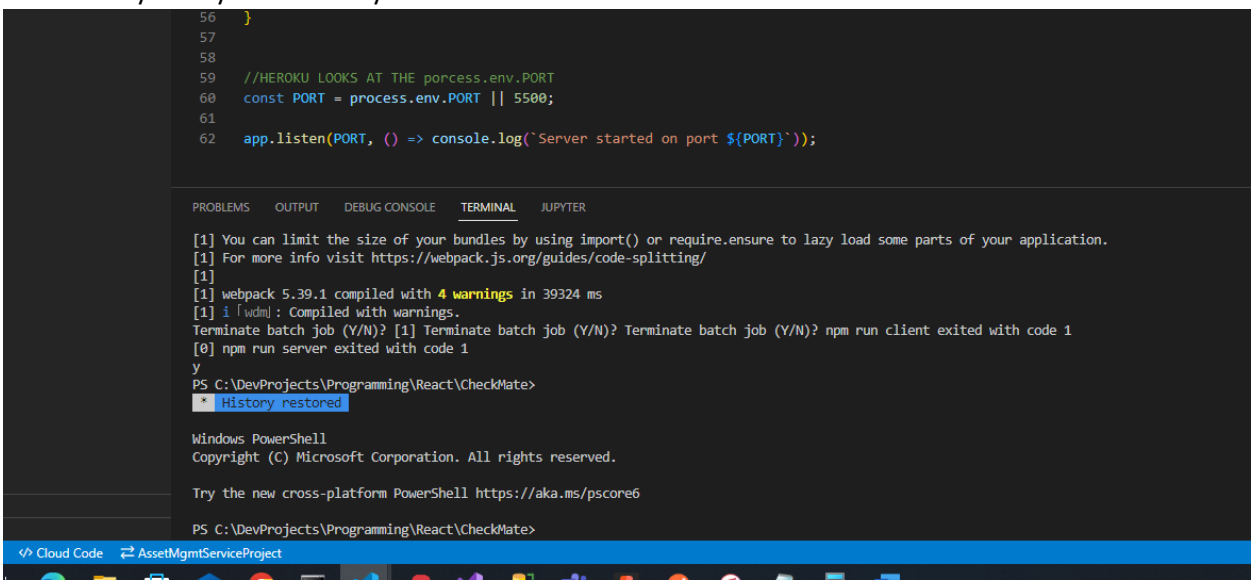


copy the remote command
heroku git:remote -a fierce-plains-03819

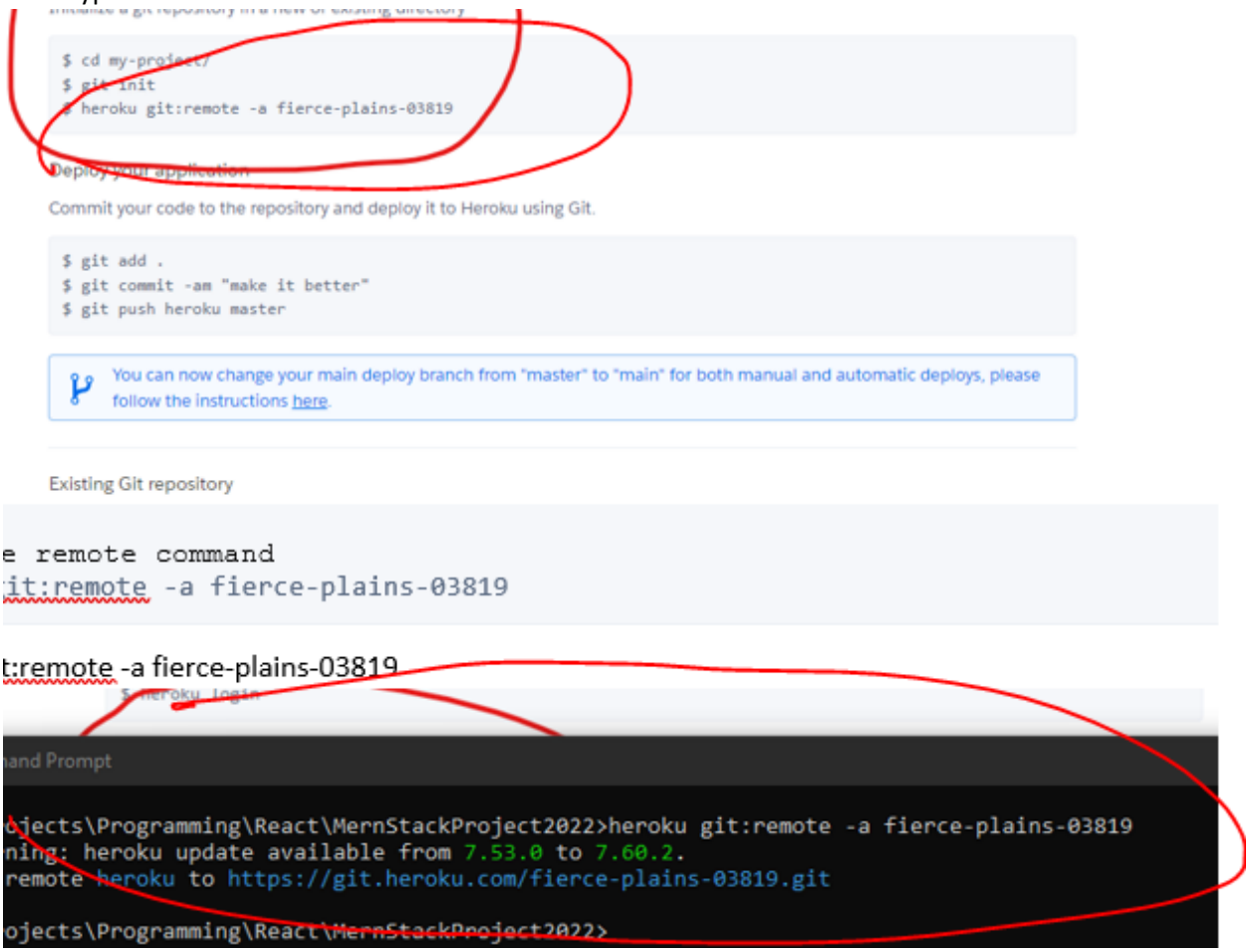
heroku git:remote -a fierce-plains-03819



Make sure you in your directory



Then type in the line from here:



This adds a remote repo for Heroku

Then do all of your regular commits locally
git add -A
git add .
git commit -m "first commit"
git push origin master

Now push to Heroku

git push Heroku master

After that, watch the build, it should succeed.

You can go to your Heroku dashboard and view your app and browse it.

Tip: Revisiting Google Cloud again for my assetmgtservice (**Signed up on 10/16/2022)**

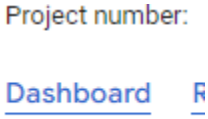
This like talks about creating Node.js service to run google cloud
https://cloud.google.com/run/docs/quickstarts/build-and-deploy/deploy-nodejs-service

First create a google cloud account with a credit card
This link below is for creating a google cloud account
https://console.cloud.google.com/freetrial?_ga=2.193936365.1372868959.1665875748-414377682.1665875748&_gac=1.215098085.1665883042.CjwKCAjwtKmaBhBMEiwAylNuwJdtGLj_yNP1d3kKhODtrcRzJm_tVv7Hw-HGx95ebry4AJLSLEnkkhoChKcQAvD_BwE

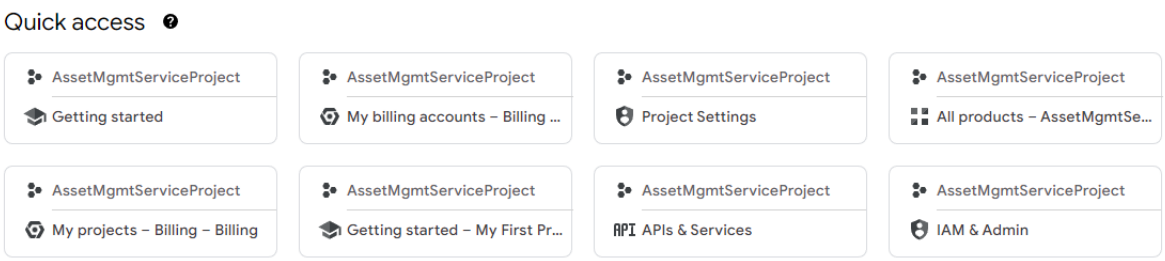
Signed up on 10/16/2022

I signed up using my Captial One Virtual Account (so I would not have to use my real account number)
I renamed the first project to:
AssetMgmtServiceProject

To rename the project information:
Click on Dashboard

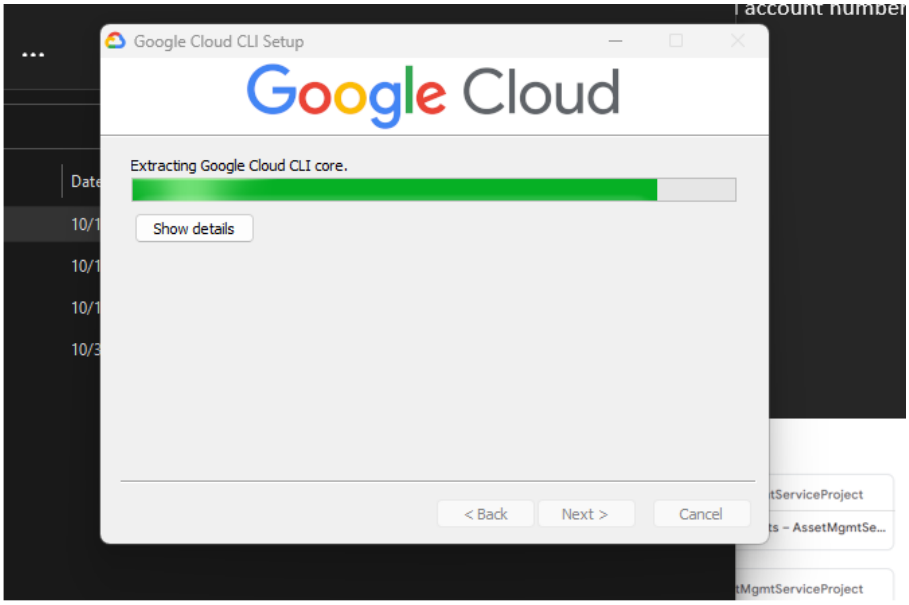


Project Settings
Or access it thorugh Quick Access->Project Settings



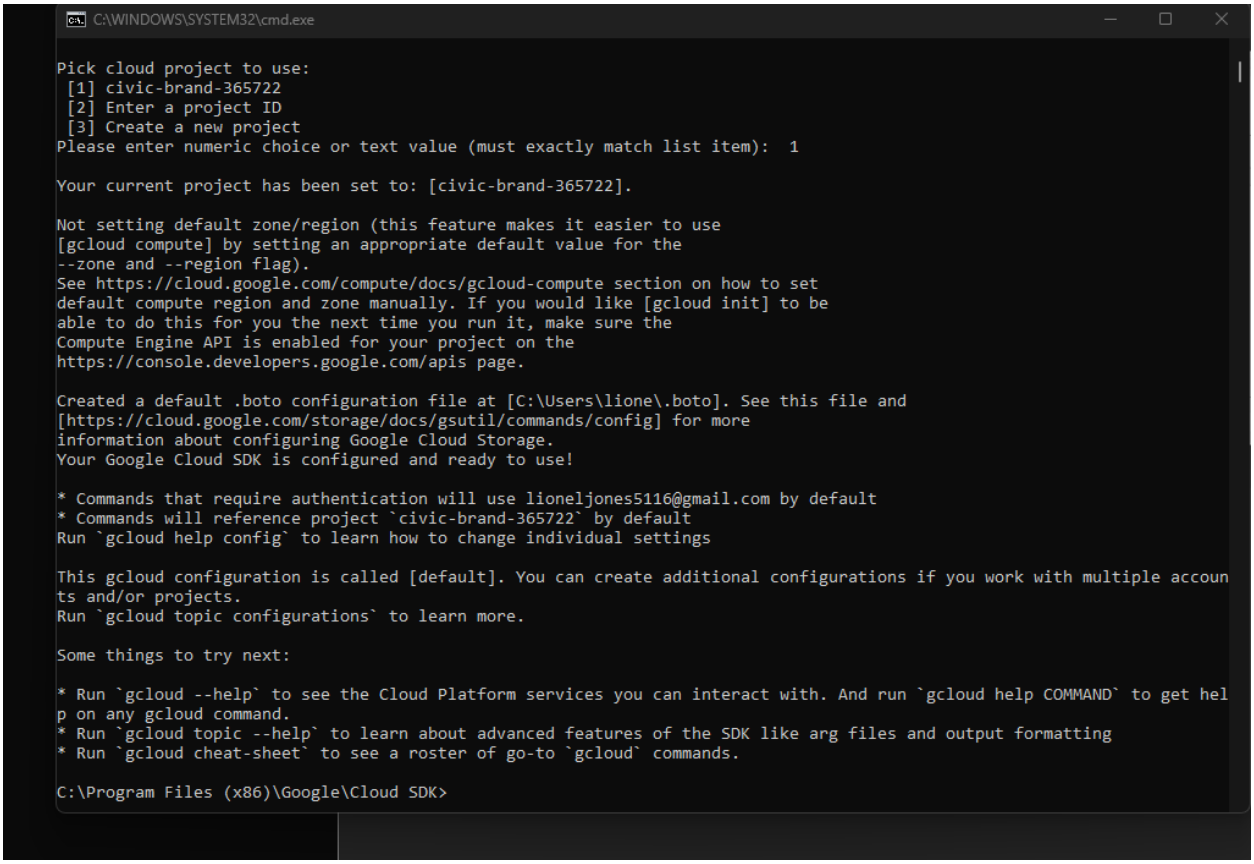
Next you have to install the google CLI

https://cloud.google.com/sdk/docs/install



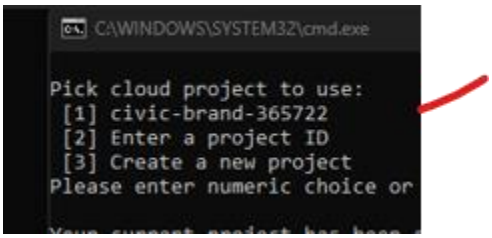
Next make sure you initilize your gcloud
https://cloud.google.com/sdk/docs/initializing

This is done automatically on windows after intallation, it will run the wizard



But on Mac M1
You install gcloud via .sh file from a zipped extract. After you have installed on m1
You have to run the following command:
gcloud init

And you will get the same window as above, you initialize your gcloud with a valid project. This is the project I created earlier.



You can also set the default project with following command:
gcloud config set project *PROJECT_ID*

I am not going to follow the rest of the guide because I want to download my project from gitHub
But If wanted to deploy a simple service, I could have just copied and pasted sample code an ran the code below:

Deploy from source automatically builds a container image from source code and deploys it.

To deploy from source:

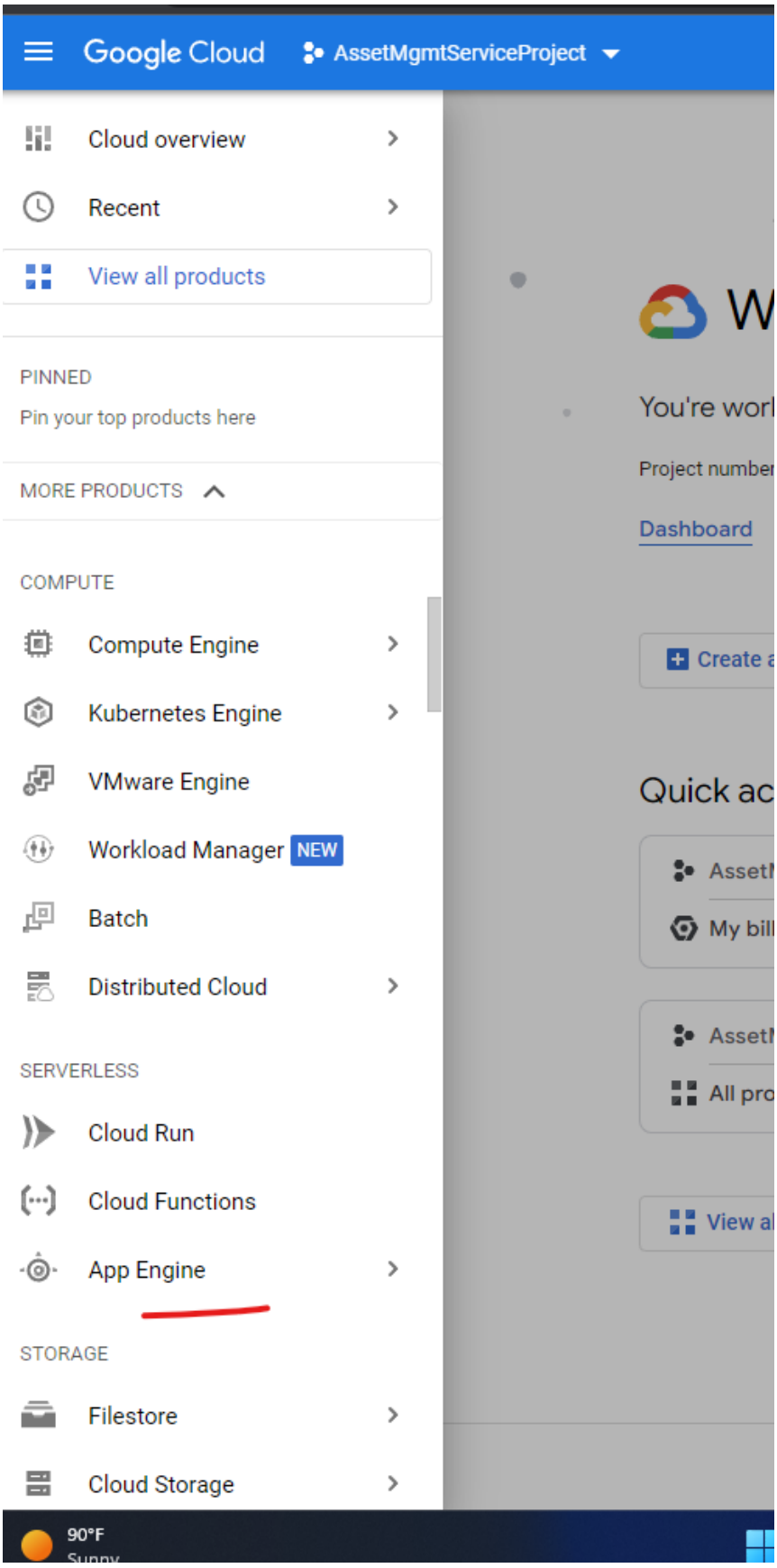
1. In your source code directory, deploy from source using the following command:

```
gcloud run deploy
```

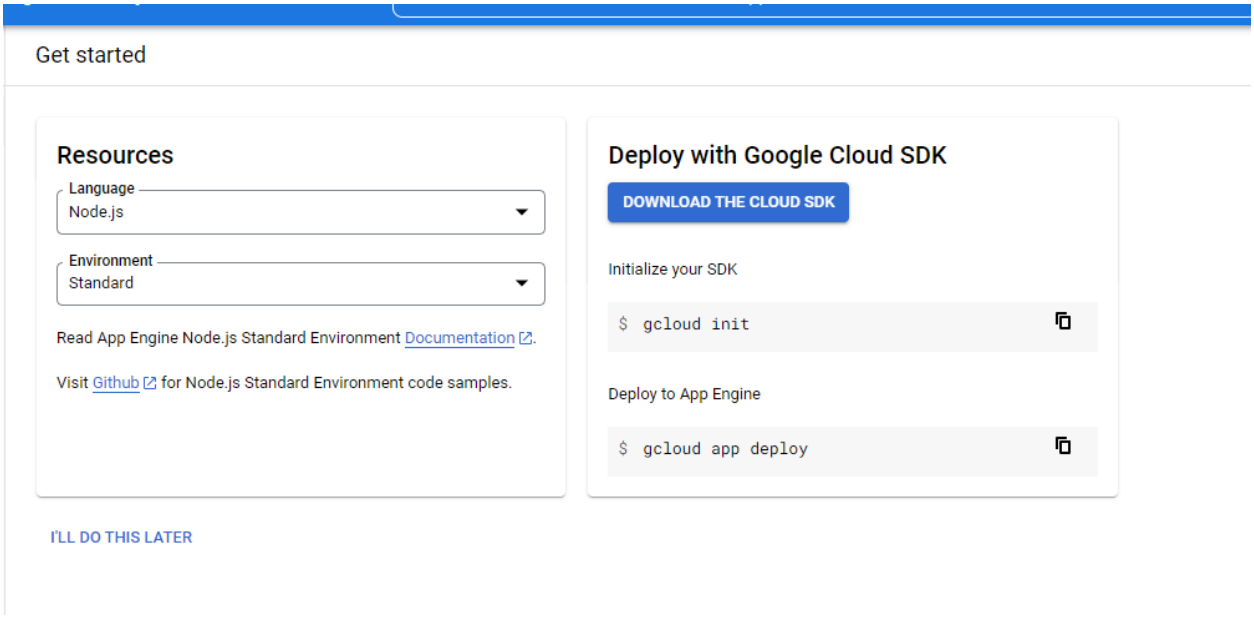
If prompted to enable the API, Reply **y** to enable.

The next link below is the one I am going to use:
https://levelup.gitconnected.com/how-to-deploy-your-node-js-app-with-google-2cd3771d5b21

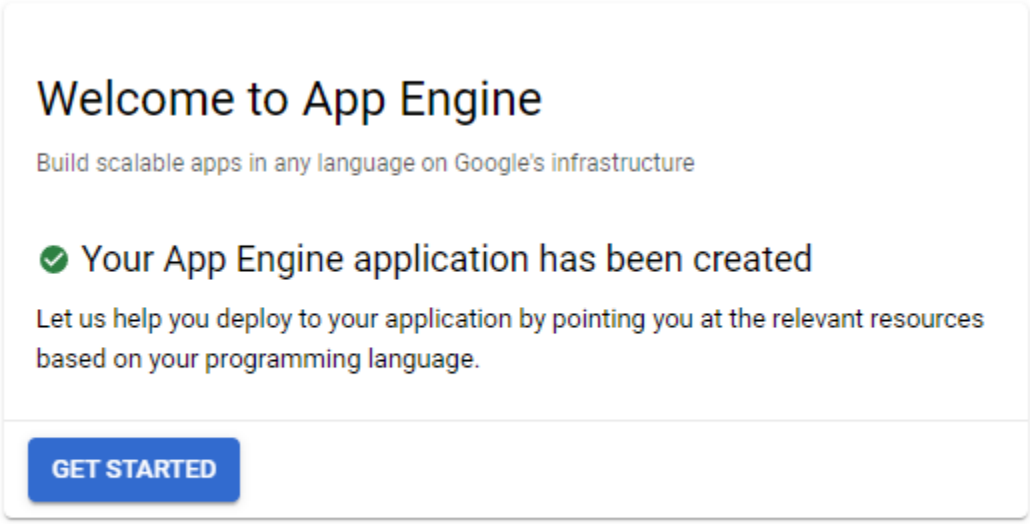
Next we will create and application to place our code in:
Hit the burger menu and select app engine


Google Cloud
AssetMgmtServiceProject
Cloud overview
Recent
View all products
PINNED
Pin your top products here
MORE PRODUCTS
COMPUTE
Compute Engine
Kubernetes Engine
VMware Engine
Workload Manager
NEW
Batch
Distributed Cloud
SERVERLESS
Cloud Run
Cloud Functions
App Engine
STORAGE
Filestore
Cloud Storage
Dashboard
Quick ac
90°F

You will prompted to create an app
Select a region
The next window opens up, select Node.js

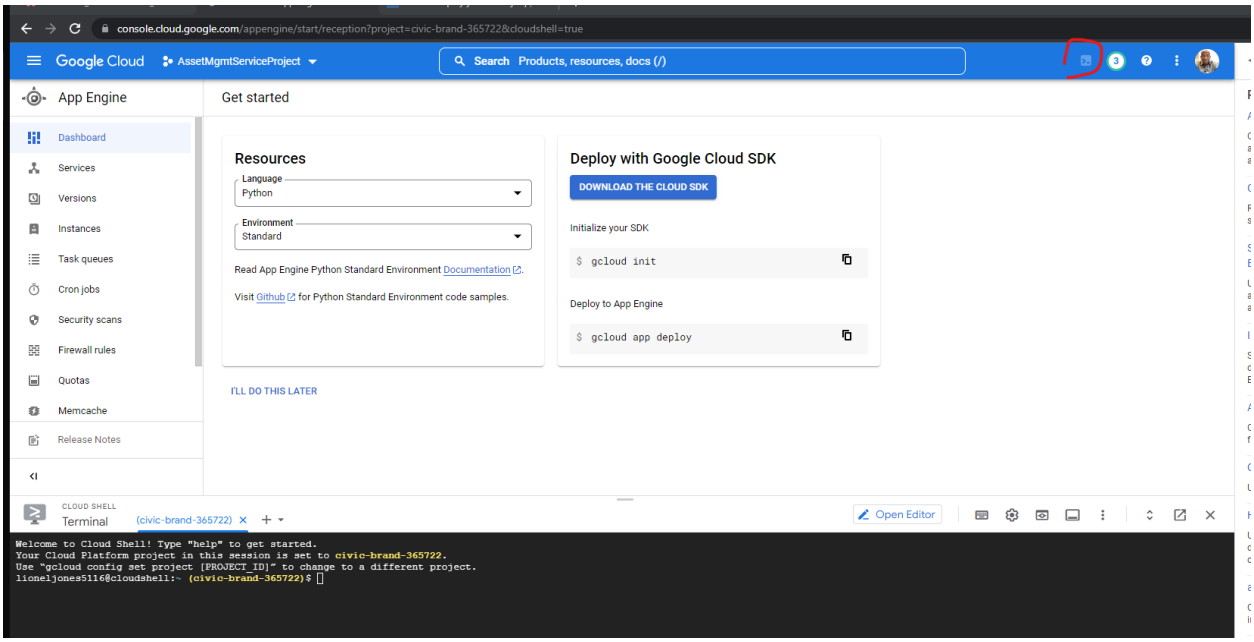


You can select I'll do this later
Once you come back by selecting App Engine:

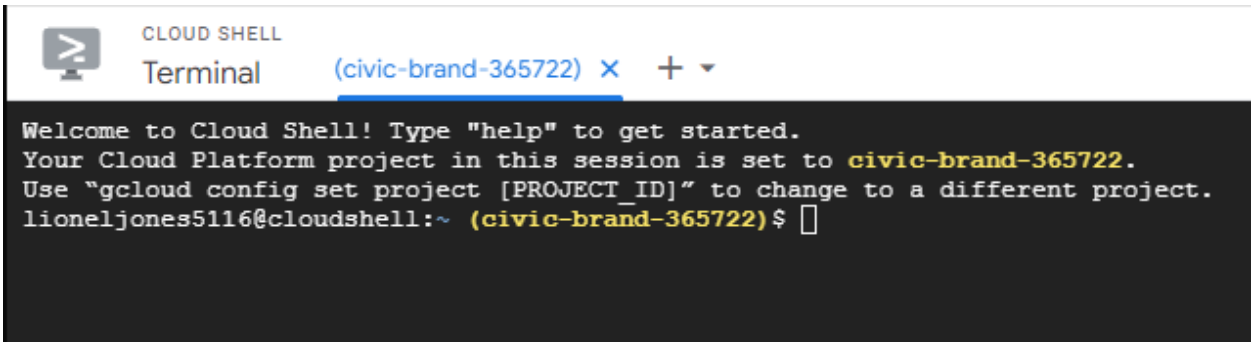


When you hit get started, it will take you back to the screen above where you select Node.js etc..

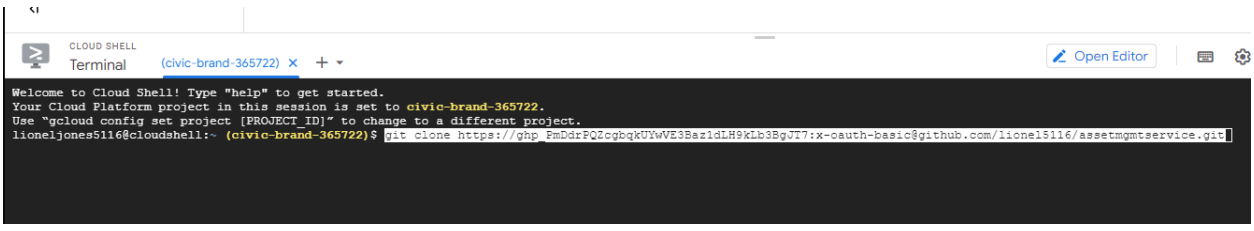
When you get to the next window again, hit the console icon on gcloud (you can do this at the command prompt or using the gcloud shell on the web)

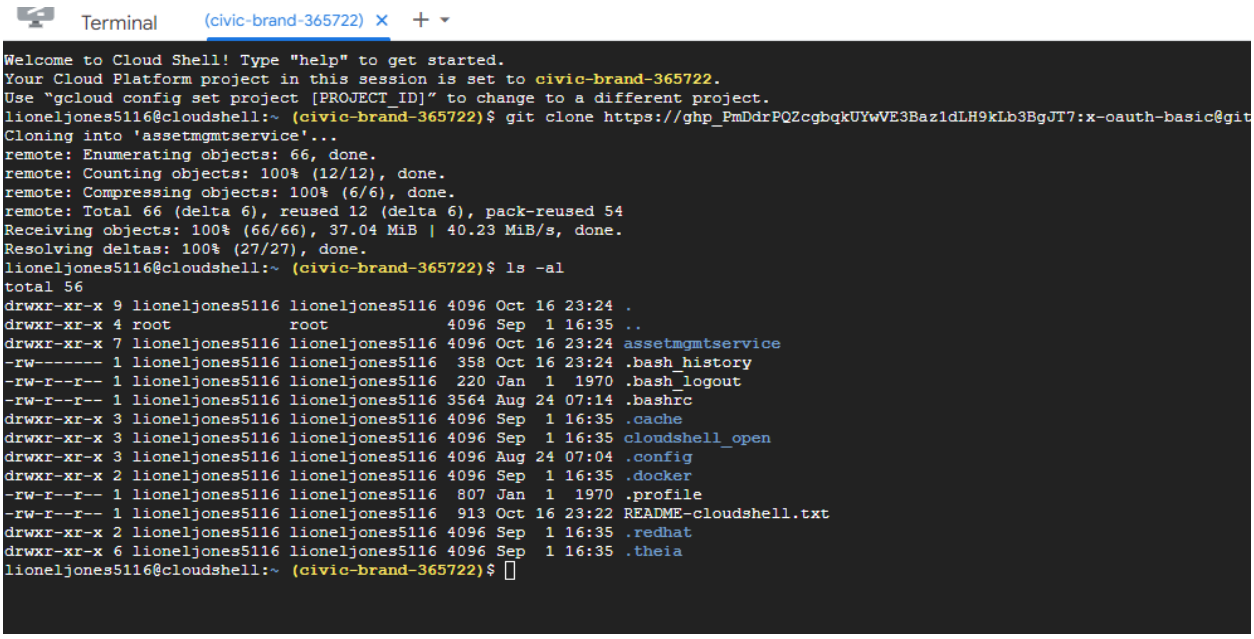


Make sure that you are in the correct project:

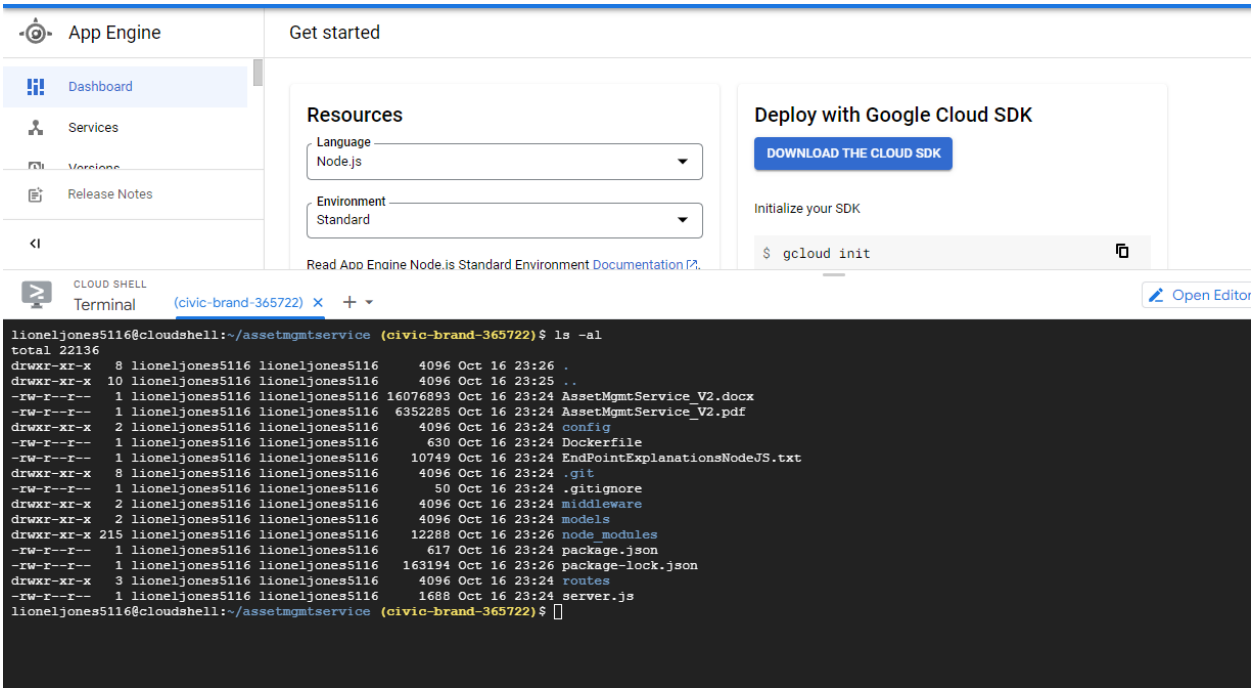


Then clone your repo:
git clone https://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:x-oauth-basic@github.com/lionel5116/assetmgmtservice.git

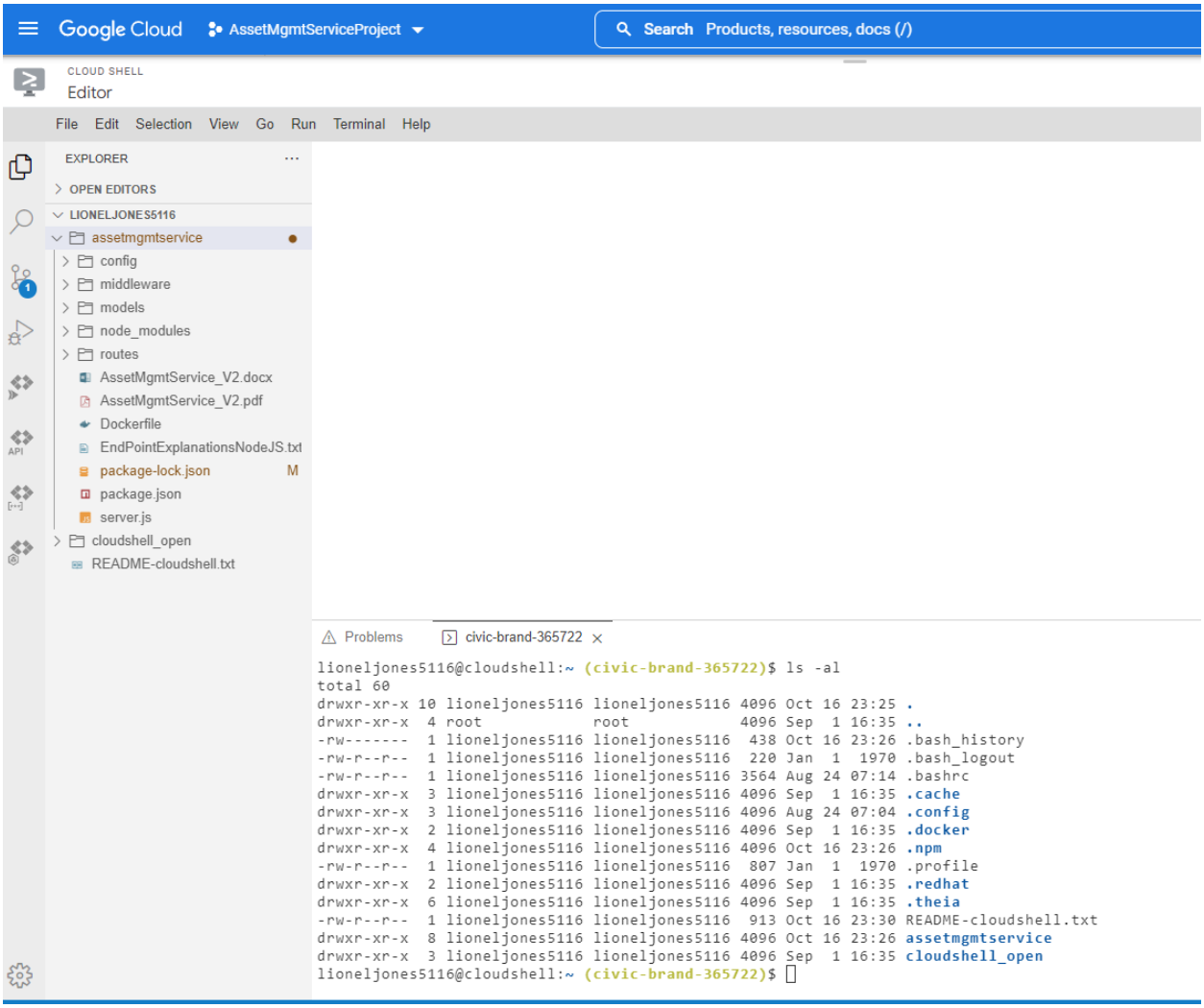




Navigate to your project folde and do an npm install
Make sure that your language says NodeJs



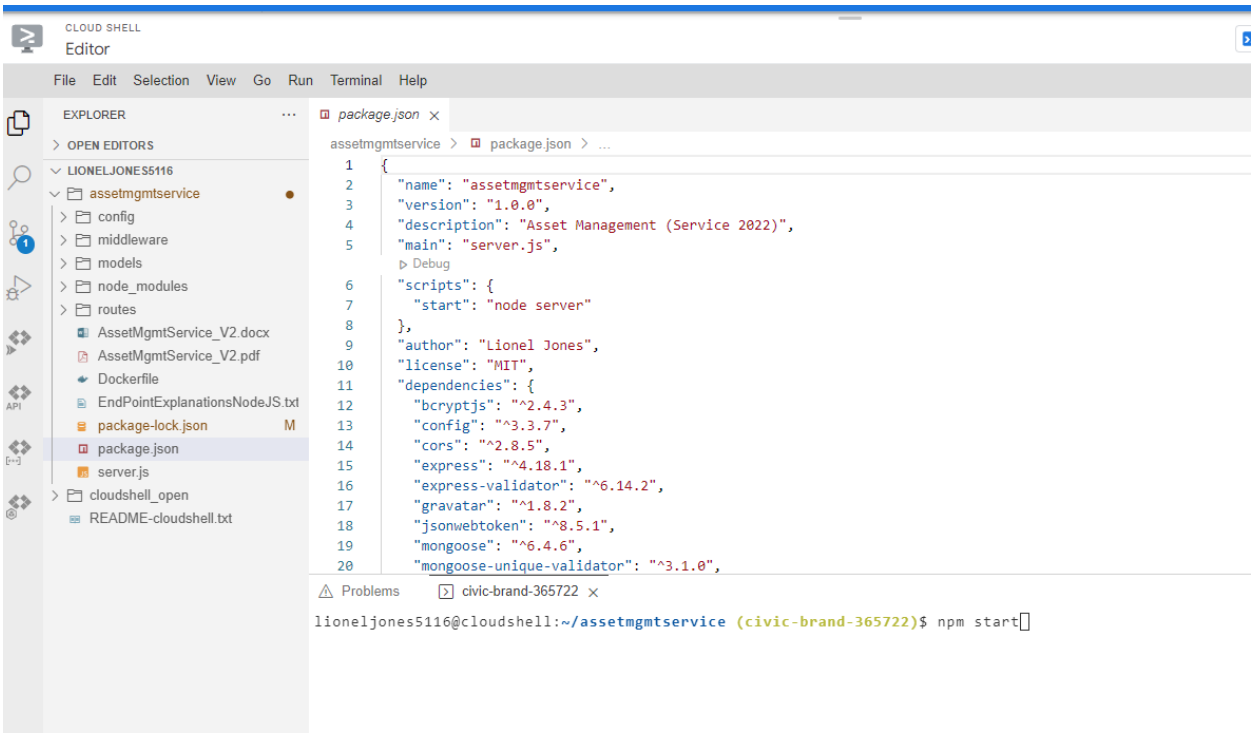
You can open the editor (It's VSCODE),by clicking on OPEN EDITOR



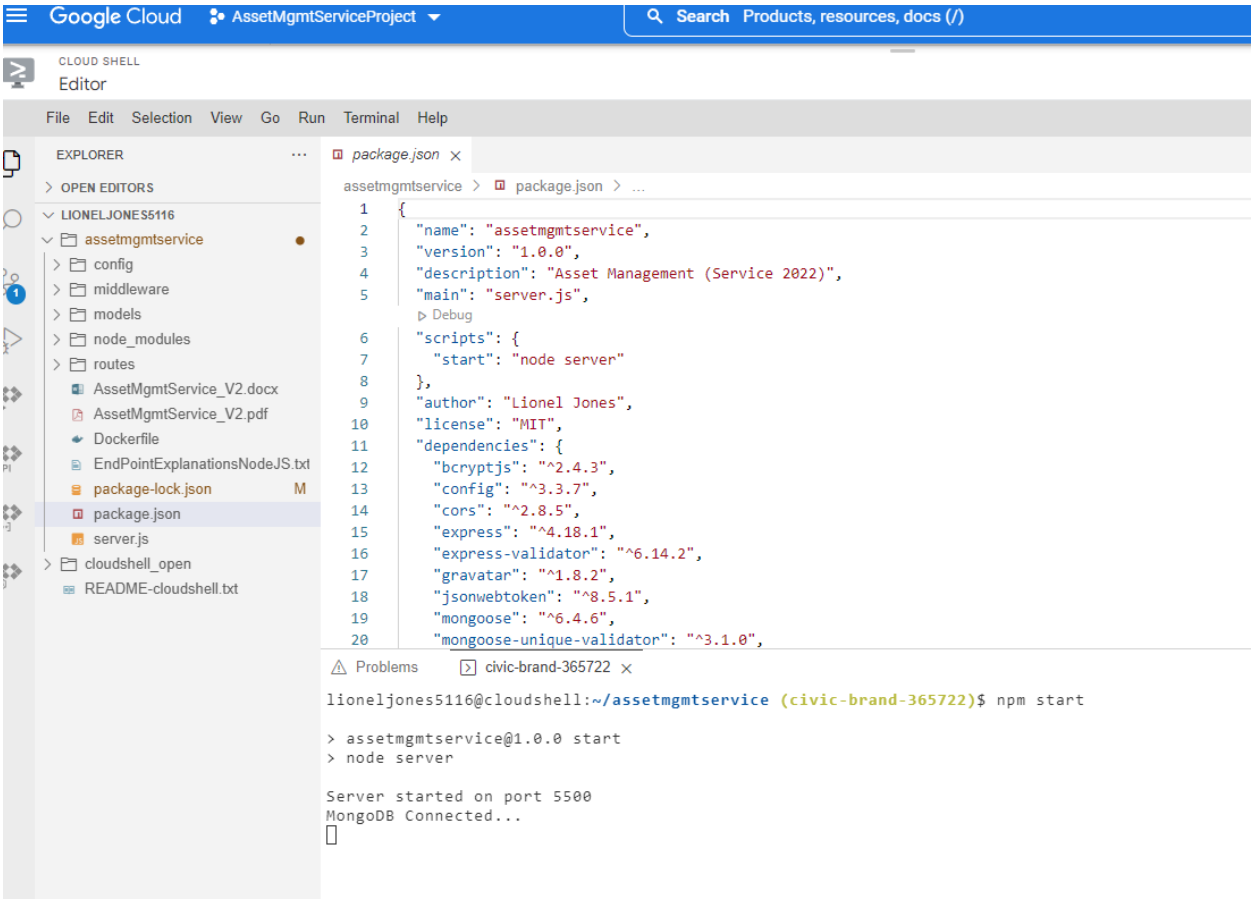
From here you can do everything just like with the terminal, just select “Terminal” new terminal as above (IT’s VSCODE remember)

You don’t need to run an npm run build (this is node.js service). There is no build

Run npm start



And it’s running:



Now to deploy:

gcloud app deploy

If you get an error

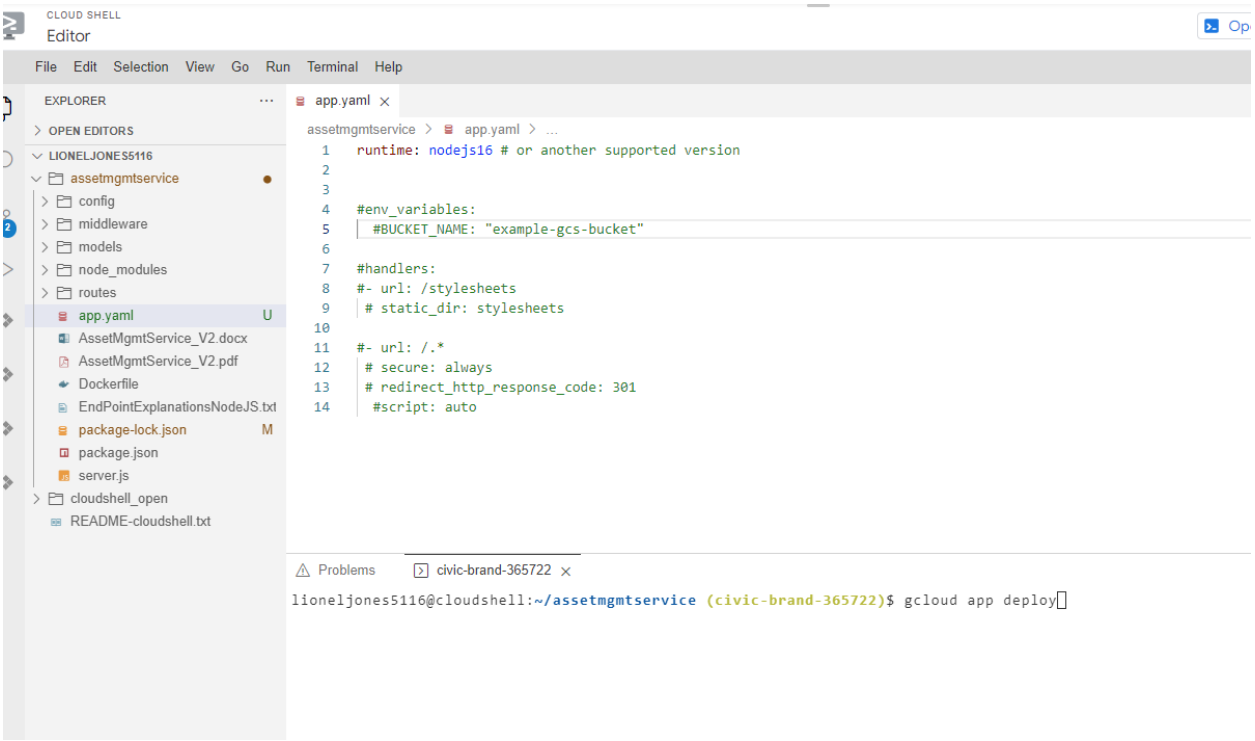
```
19    "mongoose": "^6.4.6",
20    "mongoose-unique-validator": "^3.1.0",
```

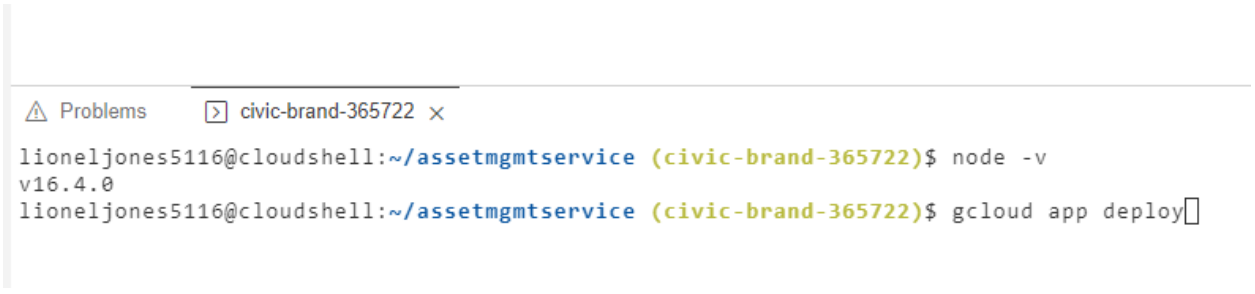
Problems civic-brand-365722 ×

```
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy
ERROR: An app.yaml (or appengine-web.xml) file is required to deploy this directory as an App Engine application. Create an app.yaml file using
the directions at https://cloud.google.com/appengine/docs/flexible/python/configuring-your-app-with-app-yaml (App Engine flexible environment) o
r https://cloud.google.com/appengine/docs/standard/python/config/appref (App Engine standard environment) under the tab for your language.
ERROR: (gcloud.app.deploy) [/home/lioneljones5116/assetmgmtservice] could not be identified as a valid source directory or file.
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$
```

This means you need to create an app.yaml file
use the command touch app.yaml to create a file
https://cloud.google.com/appengine/docs/standard/reference/app-yaml?tab=node.js

Place the minimal code in as shown below and comment out the rest





Check your version, then re-run the gcloud app deploy

Here is the log:

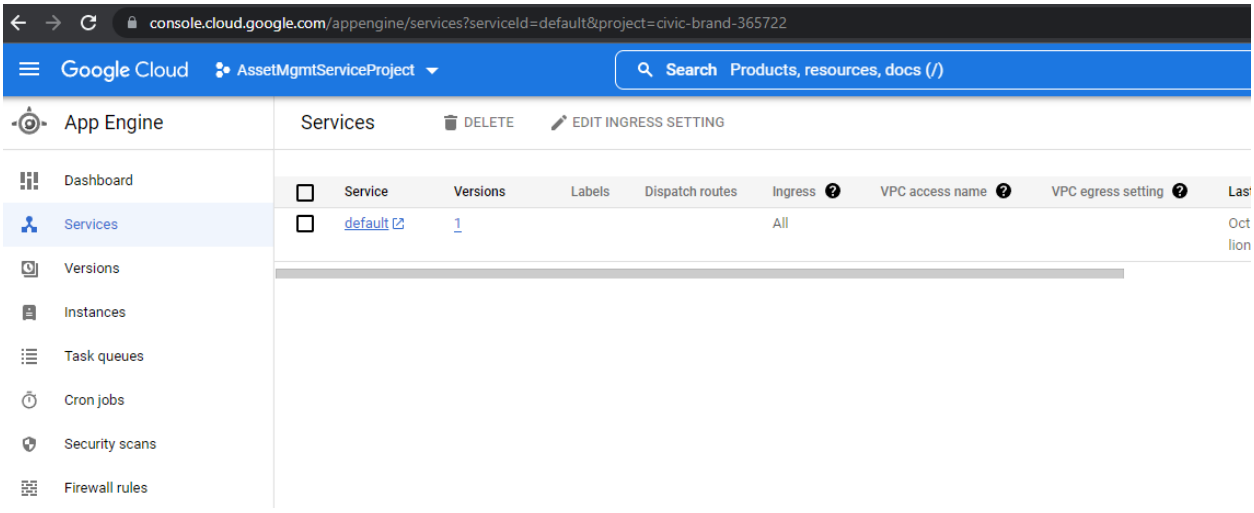
https://console.cloud.google.com/cloud-build/builds;region=us-central1/e214f552-fb08-4f7f-8351-d30a6d827879?project=497267468698

https://console.cloud.google.com/cloud-build/builds;region=us-central1/e214f552-fb08-4f7f-8351-d30a6d827879?project=497267468698

So I ran it again, and it deployed:

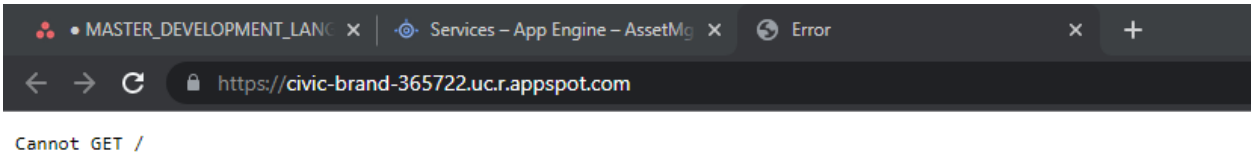
```
# static_dir: stylesheets

Problems   civic-brand-365722 ×

lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$ gcloud app deploy
Services to deploy:

descriptor:                  [/home/lioneljones5116/assetmgmtservice/app.yaml]
source:                      [/home/lioneljones5116/assetmgmtservice]
target project:              [civic-brand-365722]
target service:              [default]
target version:              [20221016t235448]
target url:                  [https://civic-brand-365722.uc.r.appspot.com]
target service account:      [App Engine default service account]


Do you want to continue (Y/n)?  y

Beginning deployment of service [default]...
Uploading 0 files to Google Cloud Storage
100%
File upload done.
Updating service [default]...done.
Setting traffic split for service [default]...done.
Deployed service [default] to [https://civic-brand-365722.uc.r.appspot.com]

You can stream logs from the command line by running:
  $ gcloud app logs tail -s default

To view your application in the web browser run:
  $ gcloud app browse
lioneljones5116@cloudshell:~/assetmgmtservice (civic-brand-365722)$
```

I went back to app engine:



Clicked on the link

https://civic-brand-365722.uc.r.appspot.com/
The error is not an error, this is a service without a page

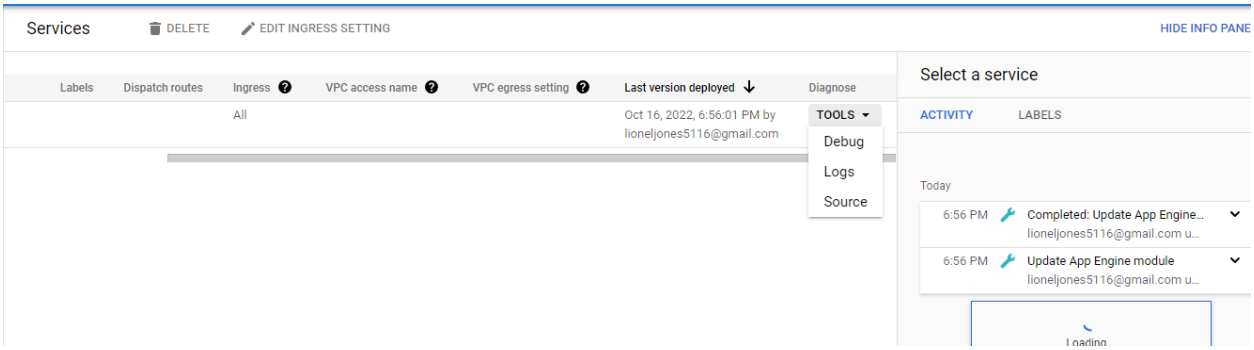


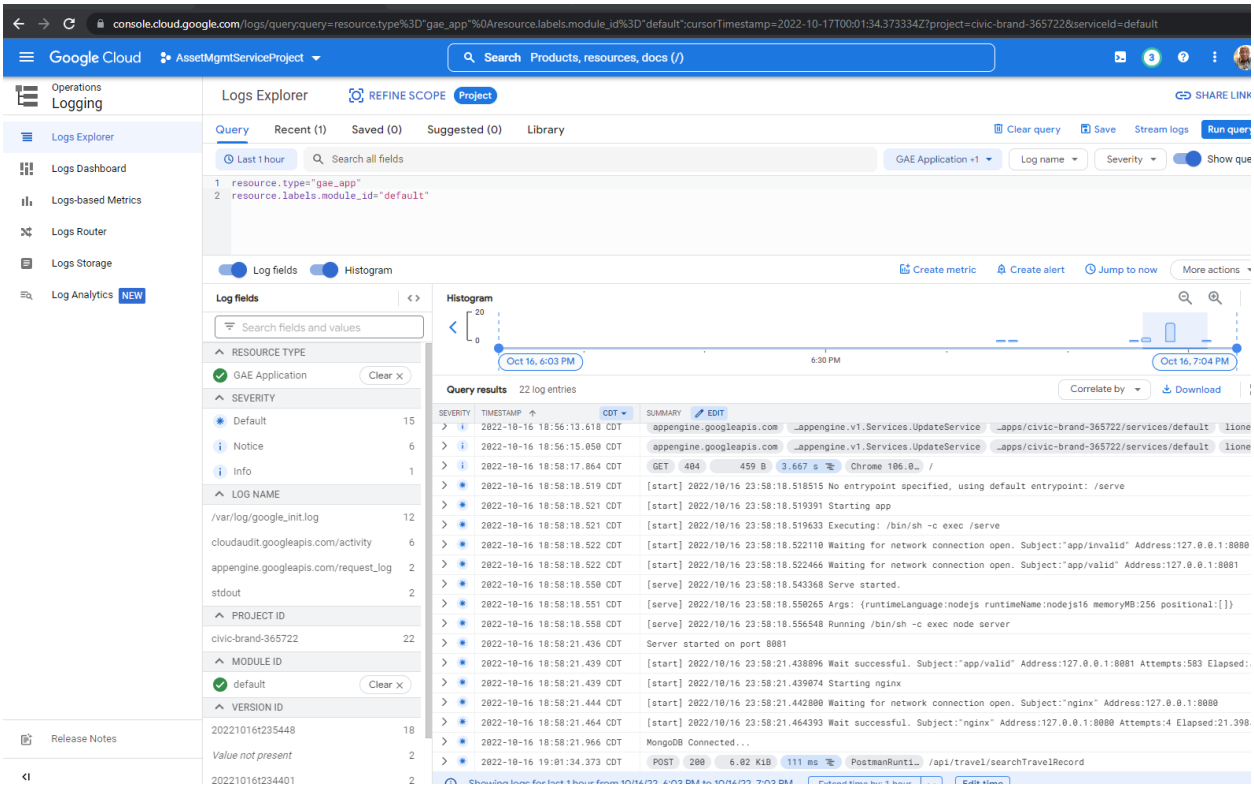
Now I am going to postman

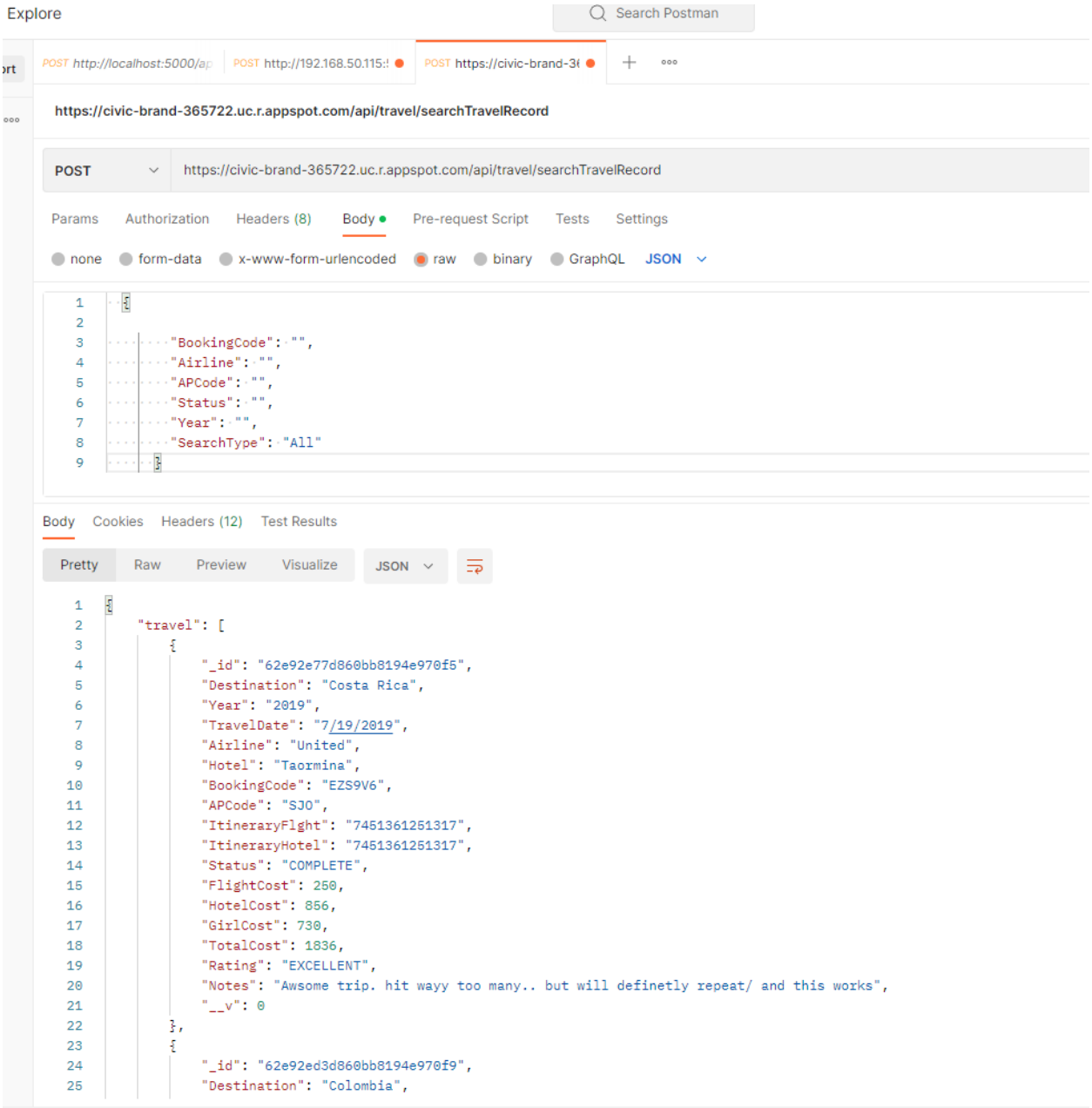
https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord

What's interesting, it handles the port 5500 internally

You can check the logs:

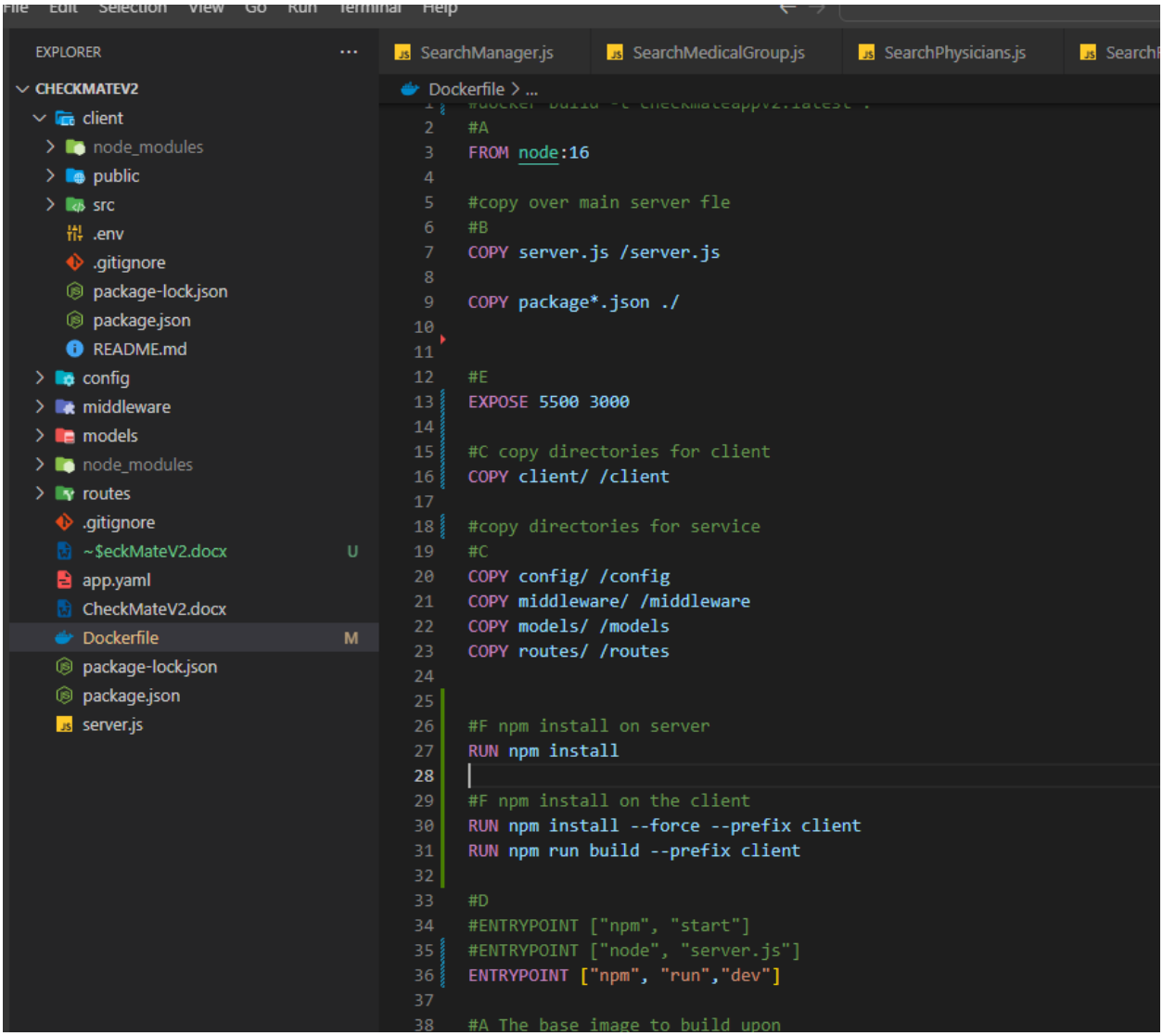



console.cloud.google.com/logs/query;query=resource.type%3D"gae_app"%0Aresource.labels.module_id%3D"default";cursorTimestamp=2022-10-17T00:01:34.373334Z?project=civic-brand-365722&serviceId=default
Google Cloud
AssetMgmtServiceProject
Search Products, resources, docs (/)
Operations
Logging
Logs Explorer
Logs Dashboard
Logs-based Metrics
Logs Router
Logs Storage
Log Analytics NEW
Release Notes
Logs Explorer
REFINE SCOPE
Project
SHARE LINK
Query
Recent (1)
Saved (0)
Suggested (0)
Library
Clear query
Save
Stream logs
Run query
Last 1 hour
Search all fields
GAE Application +1
Log name
Severity
Show que
1 resource.type="gae_app"
2 resource.labels.module_id="default"
Log fields
Histogram
Create metric
Create alert
Jump to now
More actions
Log fields
Search fields and values
RESOURCE TYPE
GAE Application
Clear
SEVERITY
Default 15
Notice 6
Info 1
LOG NAME
/var/log/google_init.log 12
cloudaudit.googleapis.com/activity 6
appengine.googleapis.com/request_log 2
stdout 2
PROJECT ID
civic-brand-365722 22
MODULE ID
default
Clear
VERSION ID
202210161235448 18
Value not present 2
202210161234401 2
Histogram
20
0
Oct 16, 6:03 PM
6:30 PM
Oct 16, 7:04 PM
Query results
22 log entries
Correlate by
Download
SEVERITY
TIMESTAMP
CDT
SUMMARY
EDIT
2022-10-16 18:56:13.618 CDT
2022-10-16 18:56:15.050 CDT
2022-10-16 18:58:17.864 CDT GET 404 459 B 3.667 s Chrome 106.0… /
2022-10-16 18:58:18.519 CDT [start] 2022/10/16 23:58:18.518515 No entrypoint specified, using default entrypoint: /serve
2022-10-16 18:58:18.521 CDT [start] 2022/10/16 23:58:18.519391 Starting app
2022-10-16 18:58:18.521 CDT [start] 2022/10/16 23:58:18.519633 Executing: /bin/sh -c exec /serve
2022-10-16 18:58:18.522 CDT [start] 2022/10/16 23:58:18.522110 Waiting for network connection open. Subject:"app/invalid" Address:127.0.0.1:8080
2022-10-16 18:58:18.522 CDT [start] 2022/10/16 23:58:18.522466 Waiting for network connection open. Subject:"app/valid" Address:127.0.0.1:8081
2022-10-16 18:58:18.550 CDT [serve] 2022/10/16 23:58:18.543368 Serve started.
2022-10-16 18:58:18.551 CDT [serve] 2022/10/16 23:58:18.550265 Args: {runtimeLanguage:nodejs runtimeName:nodejs16 memoryMB:256 positional:[]}
2022-10-16 18:58:18.558 CDT [serve] 2022/10/16 23:58:18.556548 Running /bin/sh -c exec node server
2022-10-16 18:58:21.436 CDT Server started on port 8081
2022-10-16 18:58:21.439 CDT [start] 2022/10/16 23:58:21.438896 Wait successful. Subject:"app/valid" Address:127.0.0.1:8081 Attempts:583 Elapsed:
2022-10-16 18:58:21.439 CDT [start] 2022/10/16 23:58:21.439074 Starting nginx
2022-10-16 18:58:21.444 CDT [start] 2022/10/16 23:58:21.442800 Waiting for network connection open. Subject:"nginx" Address:127.0.0.1:8080
2022-10-16 18:58:21.464 CDT [start] 2022/10/16 23:58:21.464393 Wait successful. Subject:"nginx" Address:127.0.0.1:8080 Attempts:4 Elapsed:21.398
2022-10-16 18:58:21.966 CDT MongoDB Connected...
2022-10-16 19:01:34.373 CDT POST 200 6.02 KiB 111 ms PostmanRunti… /api/travel/searchTravelRecord


Explore
Search Postman
POST http://localhost:5000/ap
POST http://192.168.50.115:
POST https://civic-brand-3(
https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord
POST
https://civic-brand-365722.uc.r.appspot.com/api/travel/searchTravelRecord
Params
Authorization
Headers (8)
Body
Pre-request Script
Tests
Settings
none
form-data
x-www-form-urlencoded
raw
binary
GraphQL
JSON
{
"BookingCode": "",
"Airline": "",
"APCode": "",
"Status": "",
"Year": "",
"SearchType": "All"
}
Body
Cookies
Headers (12)
Test Results
Pretty
Raw
Preview
Visualize
JSON
{
"travel": [
{
"_id": "62e92e77d860bb8194e970f5",
"Destination": "Costa Rica",
"Year": "2019",
"TravelDate": "7/19/2019",
"Airline": "United",
"Hotel": "Taormina",
"BookingCode": "EZS9V6",
"APCode": "SJO",
"ItineraryFlght": "7451361251317",
"ItineraryHotel": "7451361251317",
"Status": "COMPLETE",
"FlightCost": 250,
"HotelCost": 856,
"GirlCost": 730,
"TotalCost": 1836,
"Rating": "EXCELLENT",
"Notes": "Awsome trip. hit wayy too many.. but will definetly repeat/ and this works",
"__v": 0
},
{
"_id": "62e92ed3d860bb8194e970f9",
"Destination": "Colombia",

AND IT WORKS!!!!!

Tip: Getting the solution run in a docker container



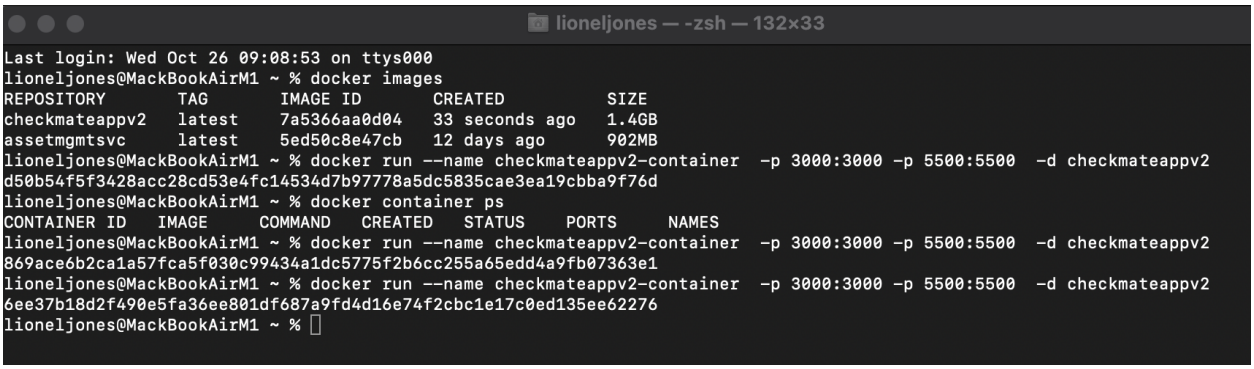
Notice line 13, this is how you expose both ports
3000 is for the client app
5500 is for the NodeJS app

Line 16 is copying the client folder's contents

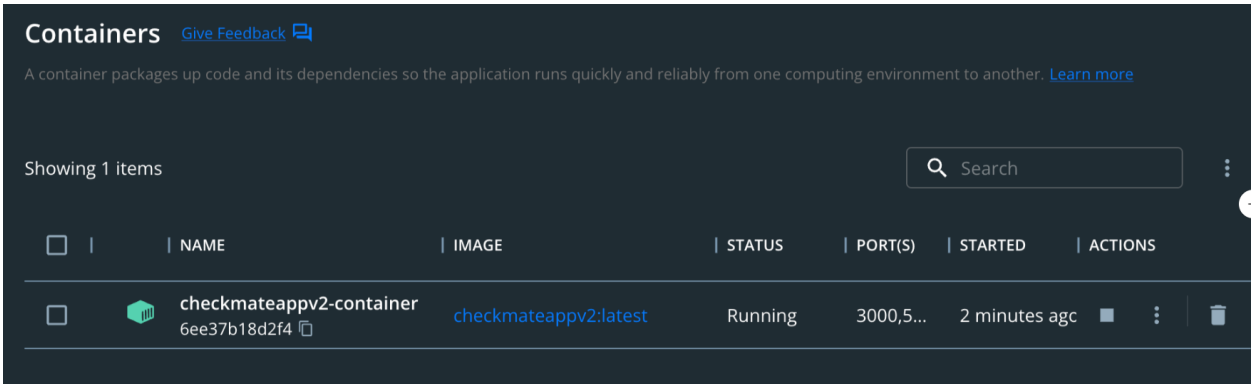
line 30 ad 31 runs the install and build of the react app

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

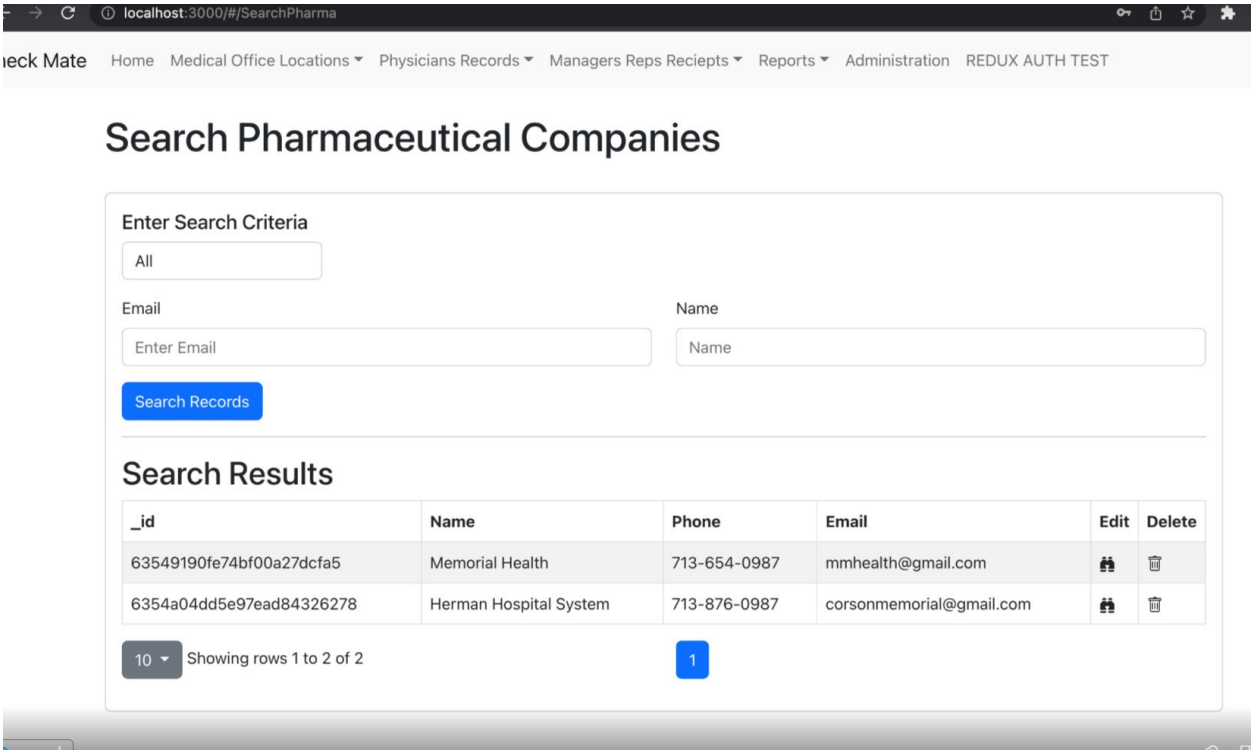
To run the image



To run the image
docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d checkmateappv2



And it works



To run your image

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

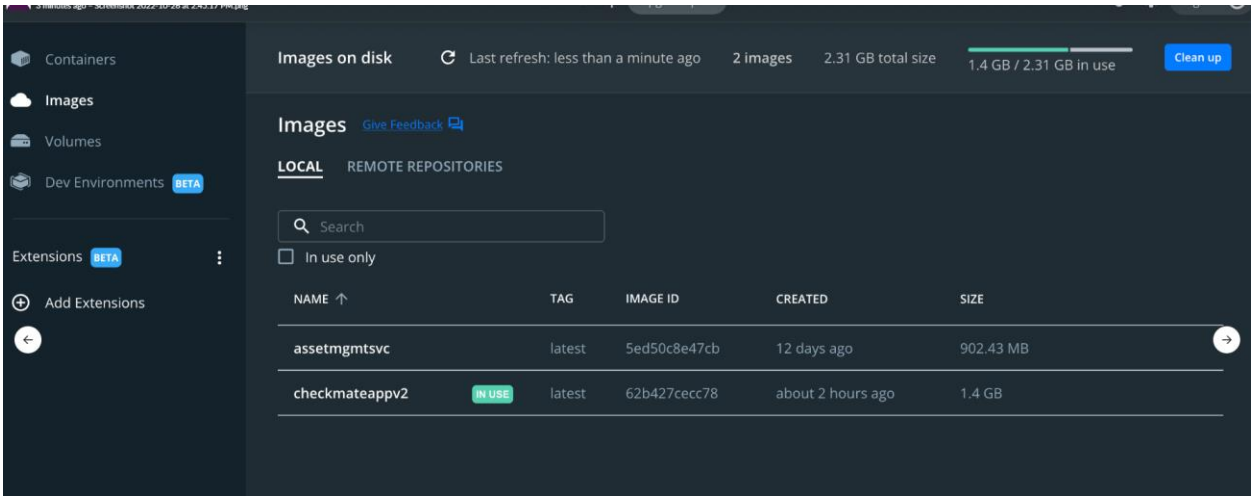
docker inspect checkmateappv2-container

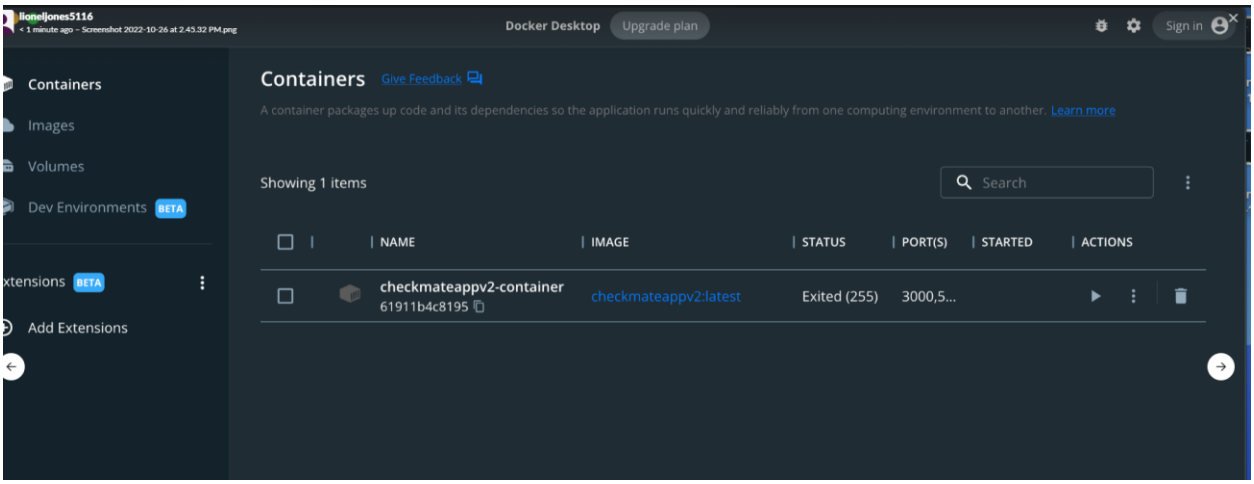
To grab the id only
docker inspect --format =“{{.Id}}” checkmateappv2-container

But I get an error (need to research this)

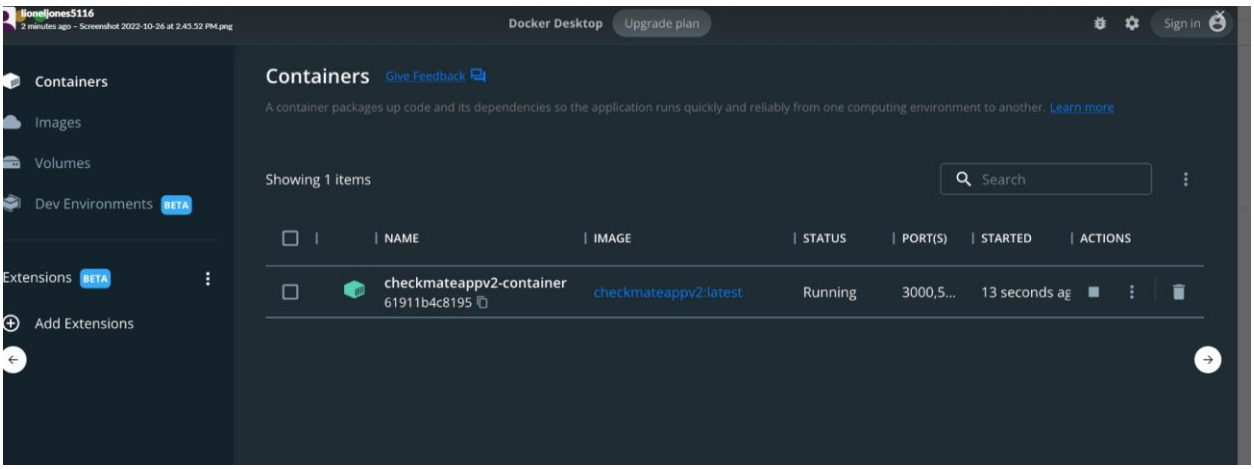
To remove your image
docker rm 6ee37b18d2f490e5fa36ee801df687a9fd4d16e74f2cbc1e17c0ed135ee62276

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

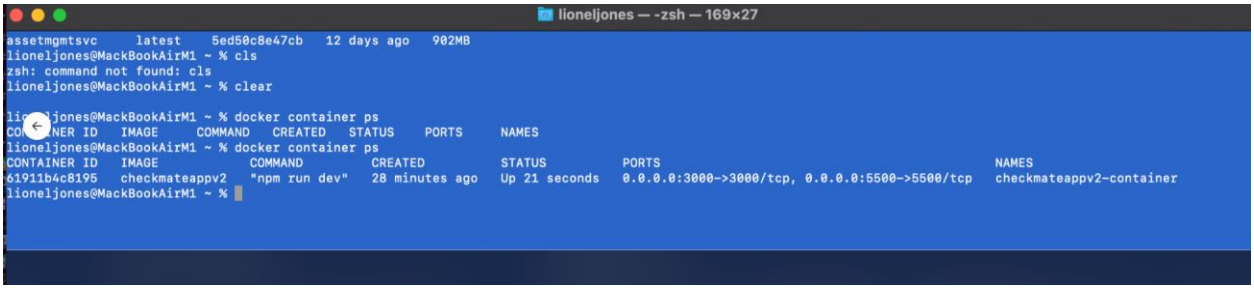




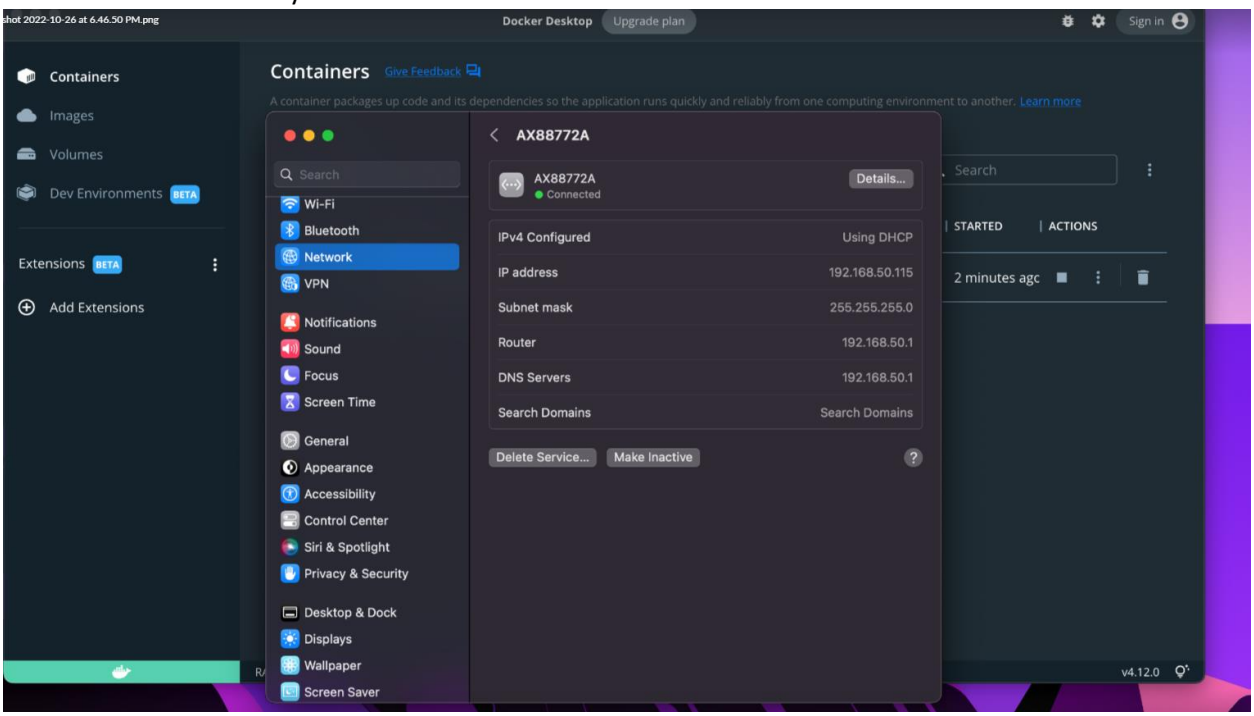
Just hit the start button

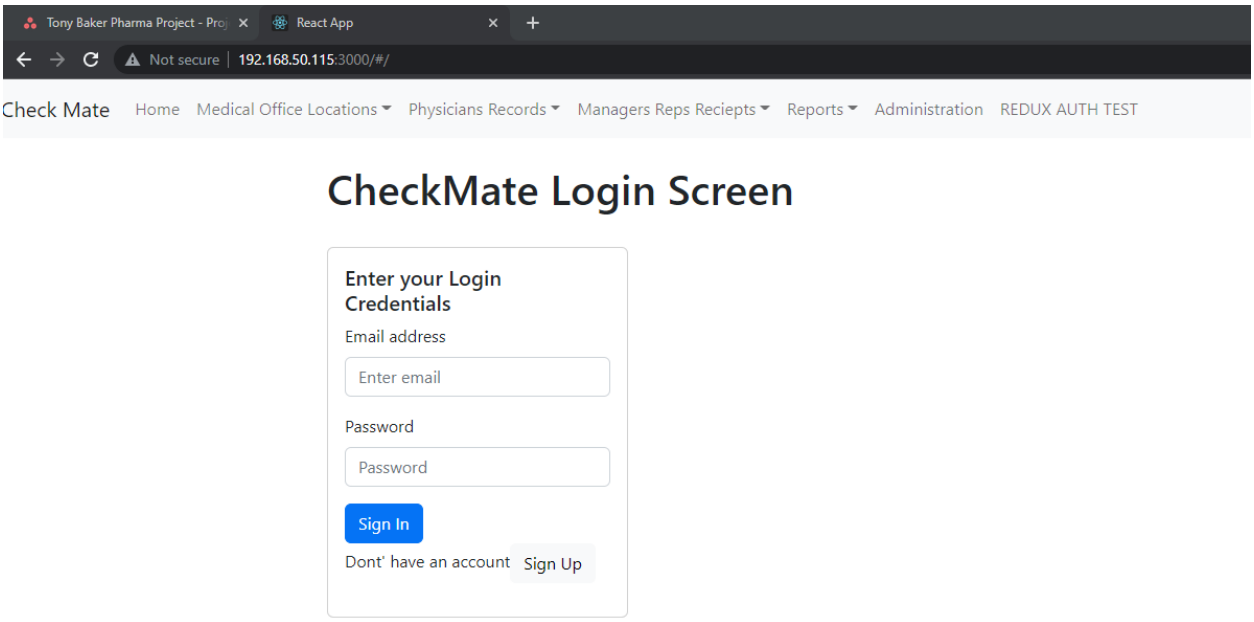


And as you can see below, it still has it’s settings

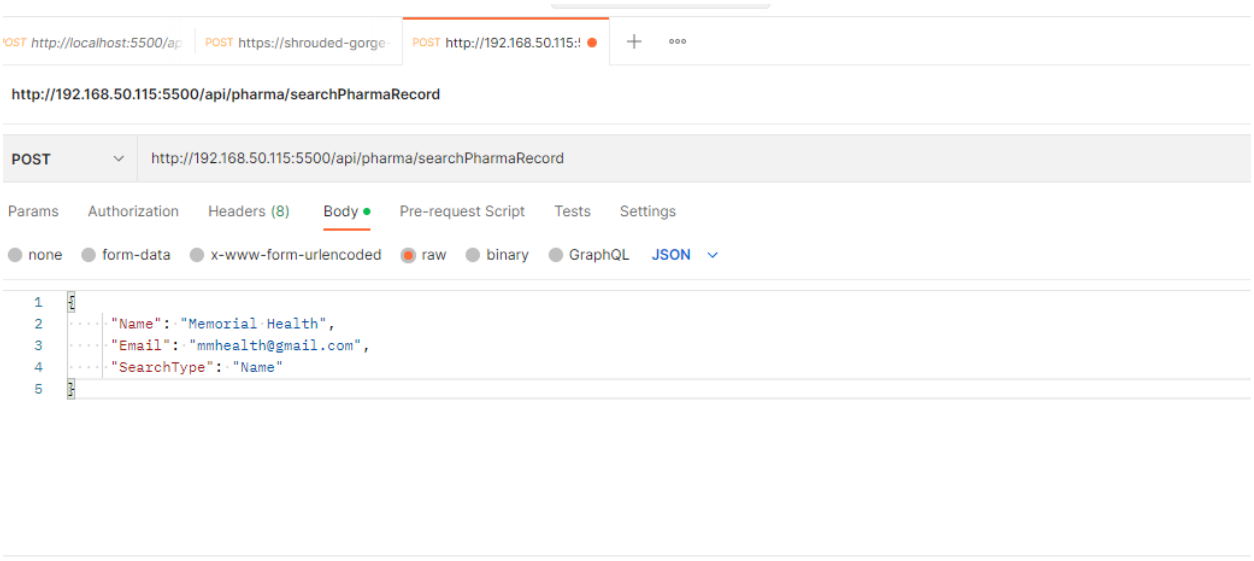


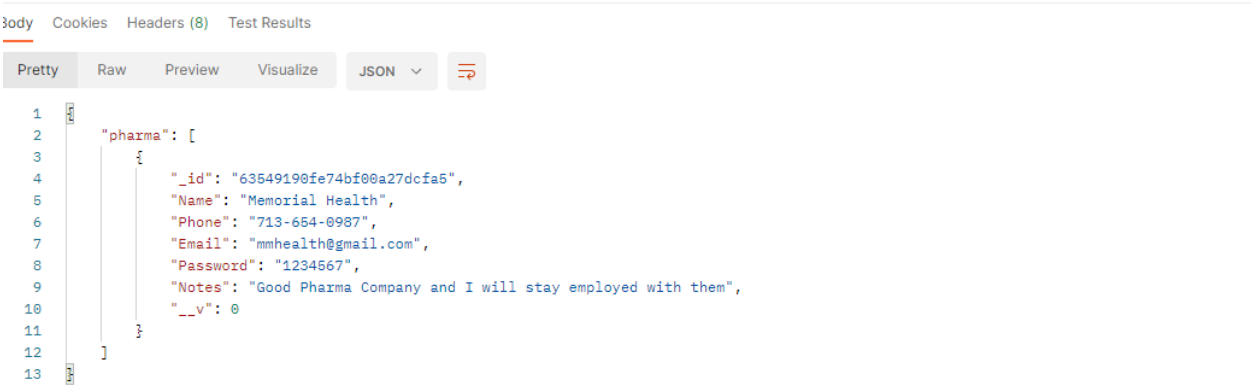
Then I did a test from my MAC at home:





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





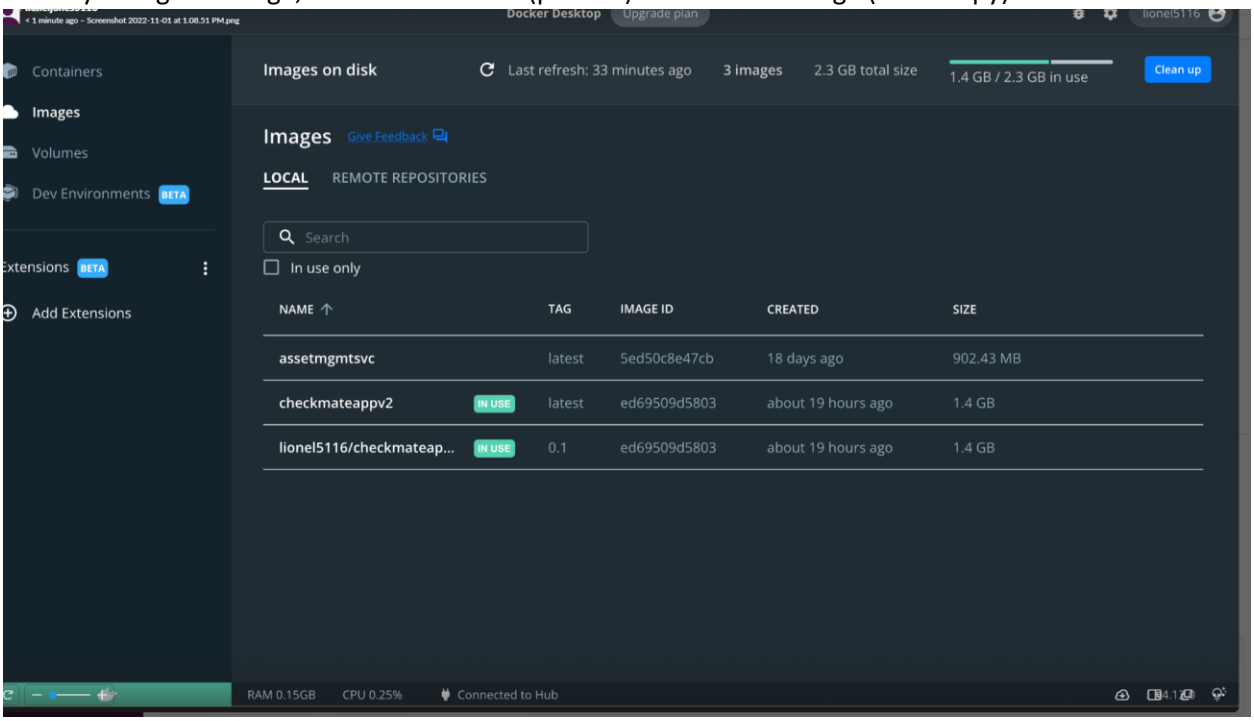
But the app itself points to localhost (meaning that it thinks it's looking itself)

Tip: Pushing the image to Docker Public Registry
First you have to tag your image
docker tag checkmateappv2 lionel5116/ checkmateappv2:0.1

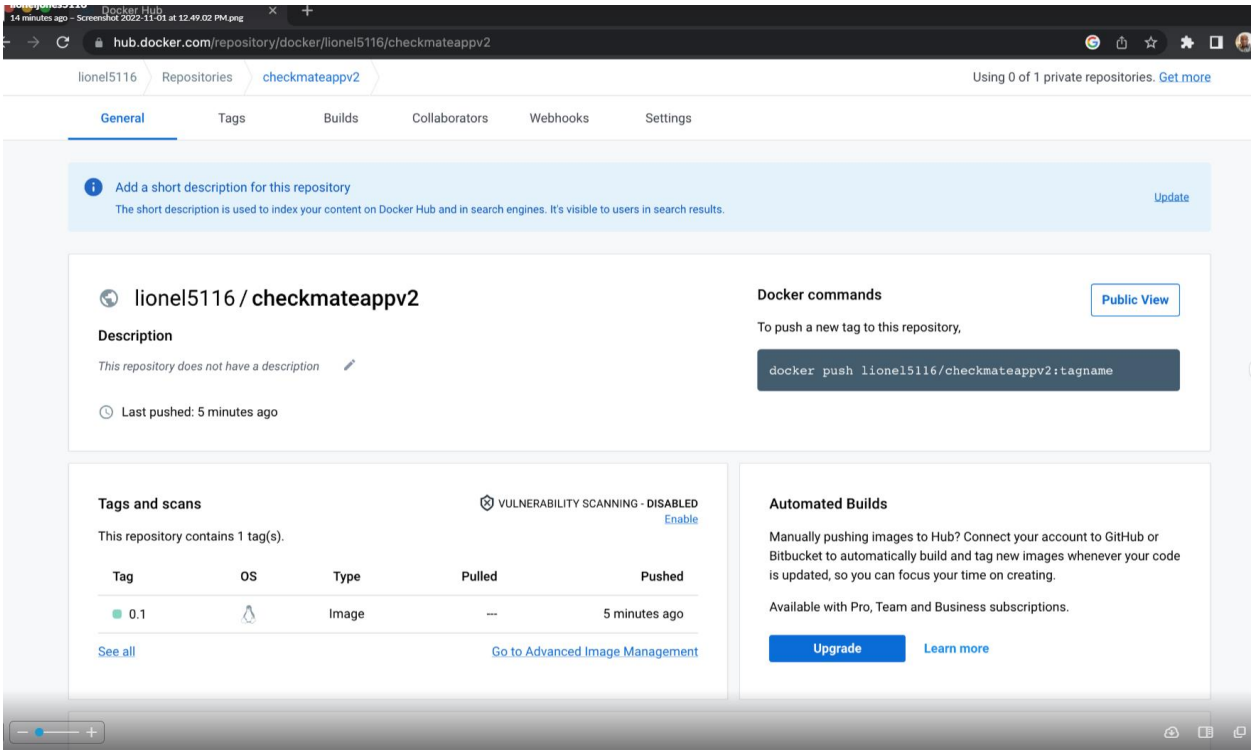
Then login to docker:
docker login -u lionel5116 docker.io

Then to push to the docker public registry
docker push lionel5116/ checkmateappv2:0.1

When you tag the image, it creates another (pointer) to the same image (not a copy)



```
REPOSITORY               TAG       IMAGE ID       CREATED        SIZE
checkmateappv2           latest    ed69509d5803   19 hours ago   1.4GB
lionel/checkmateappv2    0.1       ed69509d5803   19 hours ago   1.4GB
assetmgmtsvc             latest    5ed50c8e47cb   2 weeks ago    902MB
lioneljones@MackBookAirM1 ~ % docker login -u lionel5116 docker.io
Password:
Login Succeeded
lioneljones@MackBookAirM1 ~ % docker untag lionel/checkmateappv2:0.1
docker: 'untag' is not a docker command.
See 'docker --help'
lioneljones@MackBookAirM1 ~ % docker rmi lionel/checkmateappv2:0.1
Untagged: lionel/checkmateappv2:0.1
lioneljones@MackBookAirM1 ~ % docker images
REPOSITORY       TAG       IMAGE ID       CREATED        SIZE
checkmateappv2   latest    ed69509d5803   19 hours ago   1.4GB
assetmgmtsvc     latest    5ed50c8e47cb   2 weeks ago    902MB
lioneljones@MackBookAirM1 ~ % docker tag checkmateappv2 lionel5116/checkmateappv2:0.1
lioneljones@MackBookAirM1 ~ % docker images
REPOSITORY                  TAG       IMAGE ID       CREATED        SIZE
checkmateappv2              latest    ed69509d5803   19 hours ago   1.4GB
lionel5116/checkmateappv2   0.1       ed69509d5803   19 hours ago   1.4GB
assetmgmtsvc                latest    5ed50c8e47cb   2 weeks ago    902MB
lioneljones@MackBookAirM1 ~ % docker push lionel5116/checkmateappv2:0.1
The push refers to repository [docker.io/lionel5116/checkmateappv2]
2c4a7fa73121: Pushed
64dcc1657636: Pushed
2091e71ccc8d: Pushed
e15b8feeff43: Pushed
9fbf4bdec6d0: Pushed
c9fbbbfe6830: Pushed
913e305e0b10: Pushed
04ca51e26547: Pushing [==================================================>]  405.6MB
d6580afbc3a2: Pushed
a96c44365728: Pushed
c74e32b39753: Mounted from library/node
e9c8626e4617: Mounted from library/node
5cb5bc92f68a: Mounted from library/node
f5d56b5764aa: Mounted from library/node
f65d778d2cbb: Mounted from library/node
5e007f0496b2: Mounted from library/node
bb2dc5ff8a7e: Mounted from library/node
2635506b638a: Mounted from library/node
0604d9deb7ea: Mounted from library/node
```

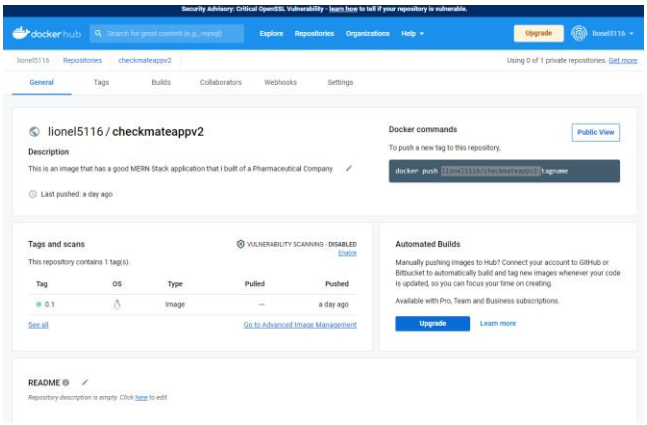


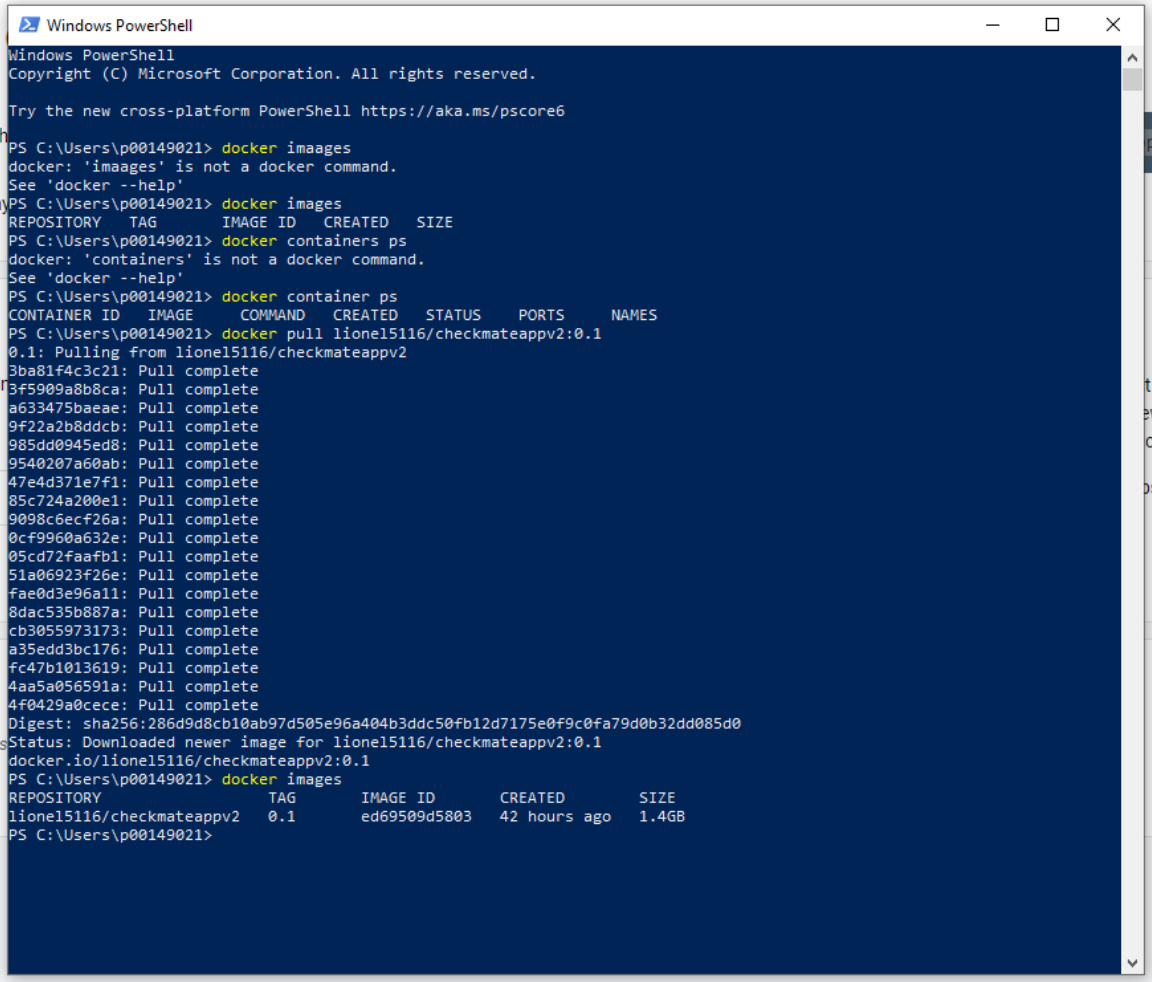
To pull the image

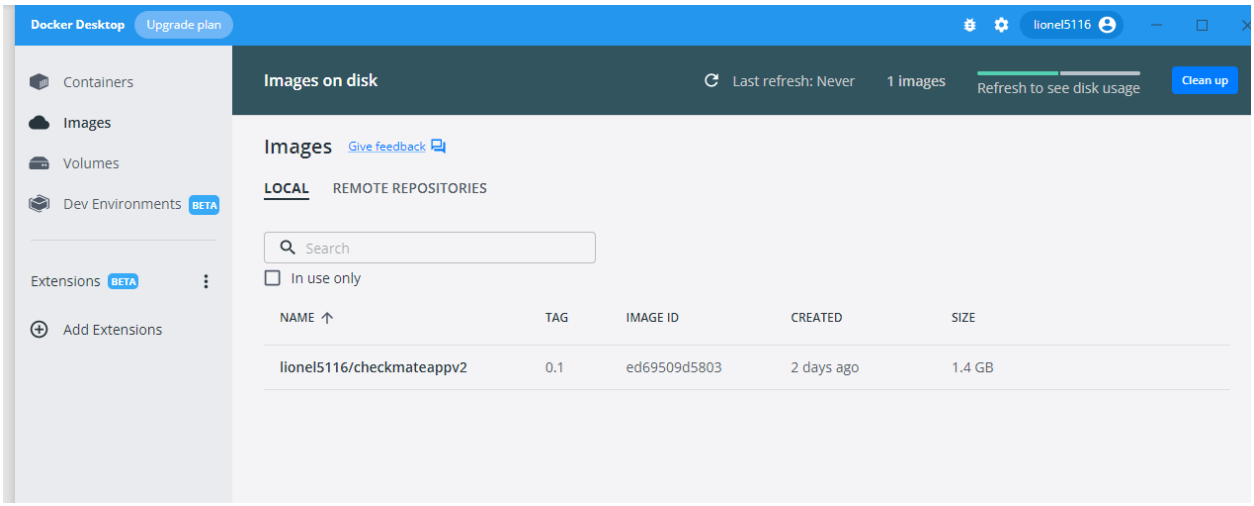
docker pull lionel5116/checkmateapp2

Tip: Pulling the image to Docker Public Registry (Working with doc exec – python- nano)

To pull the image:
docker pull lionel5116/checkmateappv2:0.1

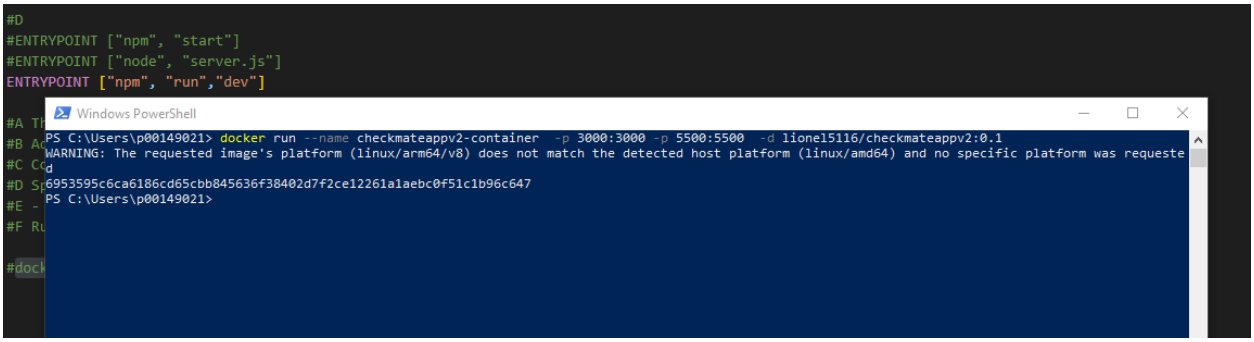

Security Advisory: Critical OpenSSL Vulnerability - learn how to tell if your repository is vulnerable.
docker hub
Explore
Repositories
Organizations
Help
Upgrade
lionel5116
Repositories
checkmateappv2
Using 0 of 1 private repositories. Get more
General
Tags
Builds
Collaborators
Webhooks
Settings
lionel5116 / checkmateappv2
Description
This is an image that has a good MERN Stack application that I built of a Pharmaceutical Company
Last pushed: a day ago
Docker commands
Public View
To push a new tag to this repository,
docker push lionel5116/checkmateappv2:tagname
Tags and scans
VULNERABILITY SCANNING - DISABLED
Enable
This repository contains 1 tag(s).
Tag
OS
Type
Pulled
Pushed
0.1
Image
a day ago
See all
Go to Advanced Image Management
Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
Available with Pro, Team and Business subscriptions.
Upgrade
Learn more
README
Repository description is empty. Click here to edit.


Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\p00149021> docker imaages
docker: 'imaages' is not a docker command.
See 'docker --help'
PS C:\Users\p00149021> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
PS C:\Users\p00149021> docker containers ps
docker: 'containers' is not a docker command.
See 'docker --help'
PS C:\Users\p00149021> docker container ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
PS C:\Users\p00149021> docker pull lionel5116/checkmateappv2:0.1
0.1: Pulling from lionel5116/checkmateappv2
3ba81f4c3c21: Pull complete
3f5909a8b8ca: Pull complete
a633475baeae: Pull complete
9f22a2b8ddcb: Pull complete
985dd0945ed8: Pull complete
9540207a60ab: Pull complete
47e4d371e7f1: Pull complete
85c724a200e1: Pull complete
9098c6ecf26a: Pull complete
0cf9960a632e: Pull complete
05cd72faafb1: Pull complete
51a06923f26e: Pull complete
fae0d3e96a11: Pull complete
8dac535b887a: Pull complete
cb3055973173: Pull complete
a35edd3bc176: Pull complete
fc47b1013619: Pull complete
4aa5a056591a: Pull complete
4f0429a0cece: Pull complete
Digest: sha256:286d9d8cb10ab97d505e96a404b3ddc50fb12d7175e0f9c0fa79d0b32dd085d0
Status: Downloaded newer image for lionel5116/checkmateappv2:0.1
docker.io/lionel5116/checkmateappv2:0.1
PS C:\Users\p00149021> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
lionel5116/checkmateappv2 0.1 ed69509d5803 42 hours ago 1.4GB
PS C:\Users\p00149021>

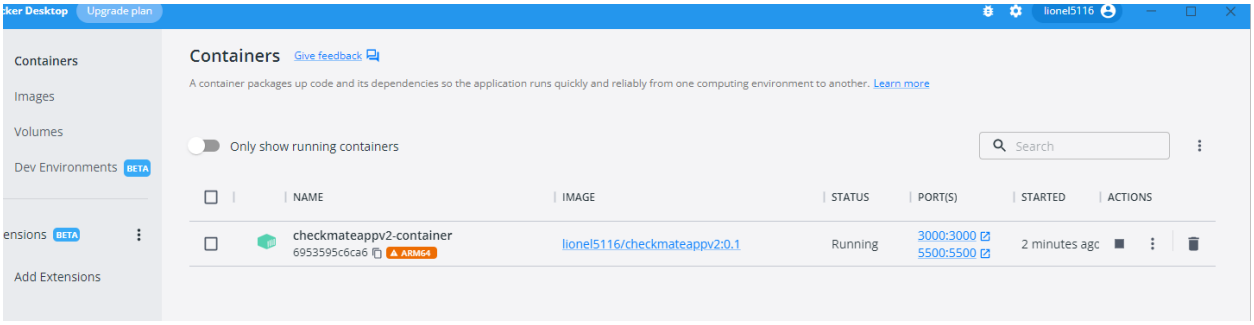


Now all we have to do is run the image

docker run --name checkmateappv2-container -p 3000:3000 -p 5500:5500 -d lionel5116/checkmateappv2:**0.1**



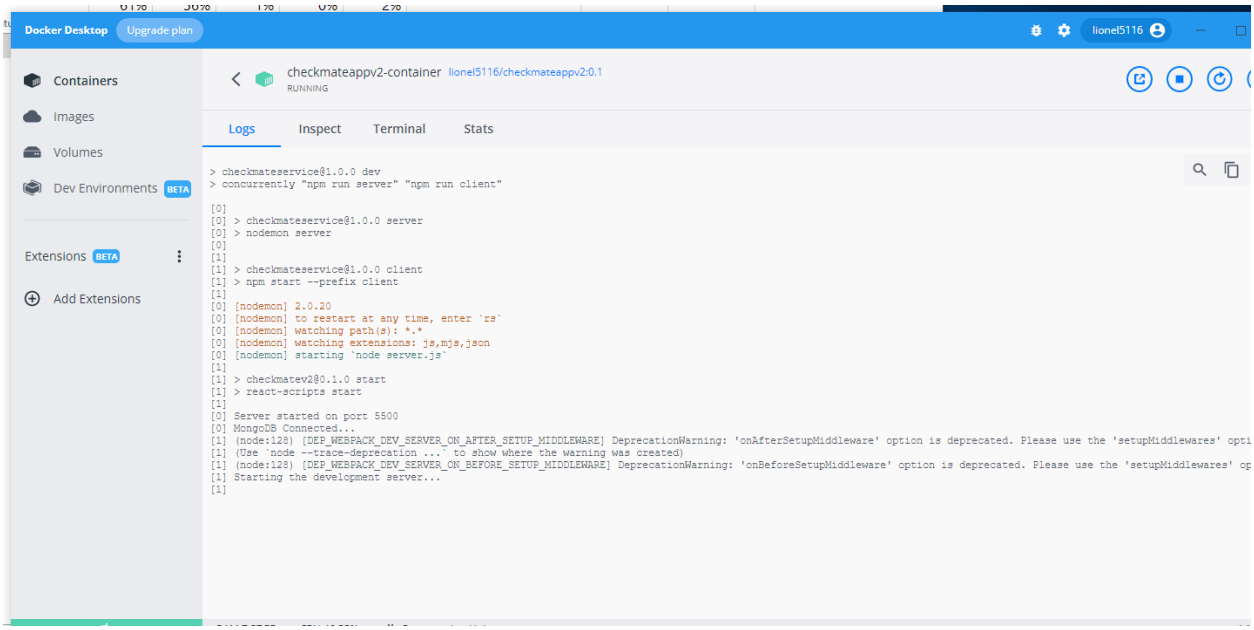
Notice how we had to add the tag name (in red)



The arm64 indicates that we are running it under and arm64 (because we built it on my arm64 mac) You can probably specify the processor under a different command.

Now we test:

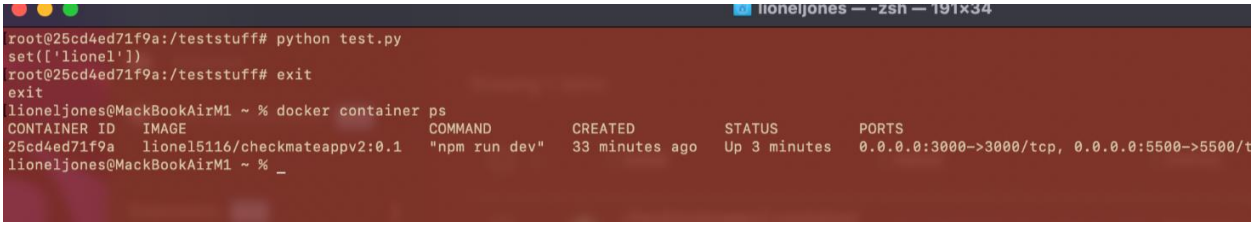
But it never completed mounted (because of the arm64)

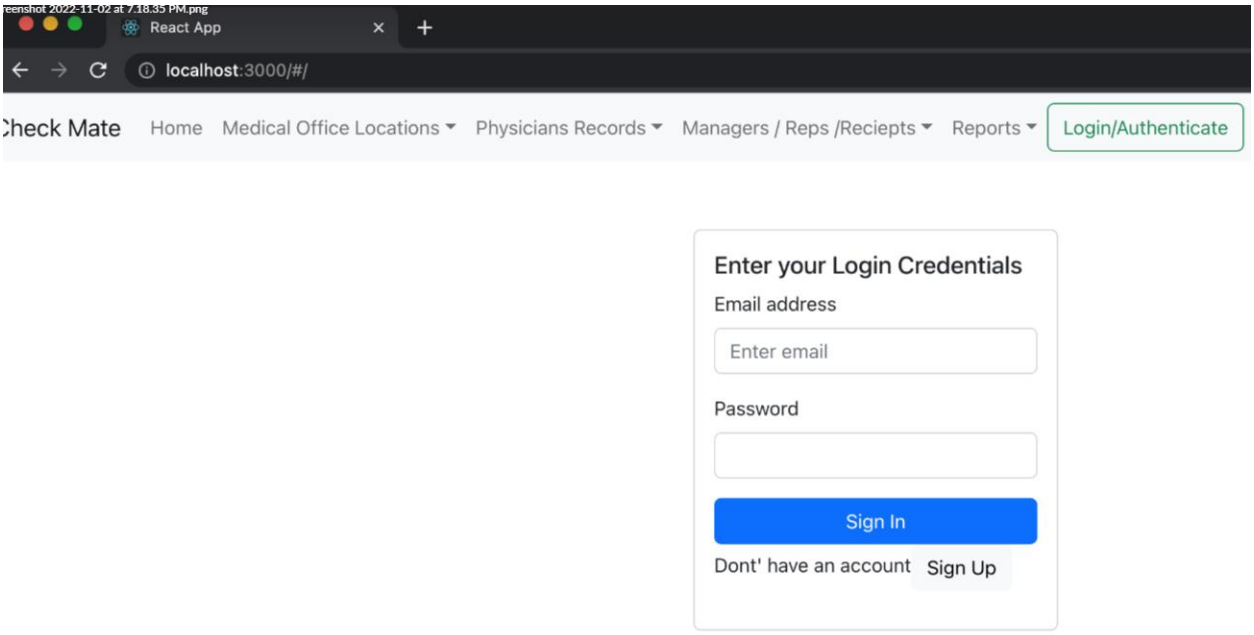


So in a nutshell, if you built it on windows and pushed it out the registry, it would perform normally.

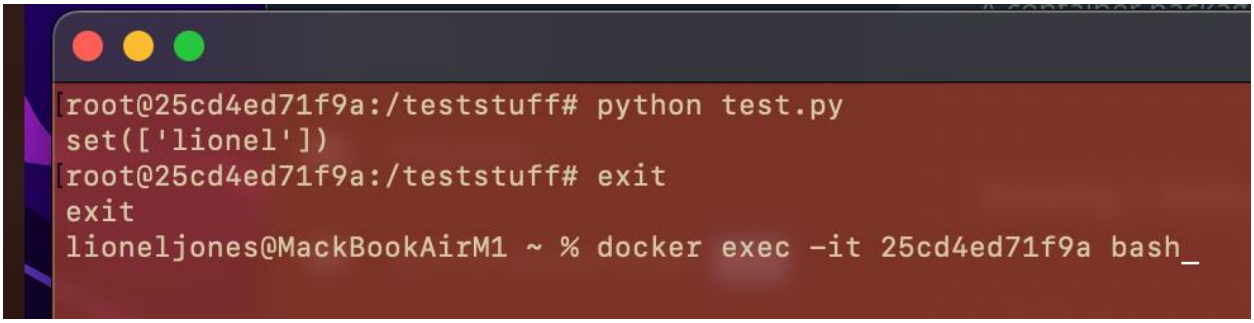
Pulling the image onto my mac

After pulling the image onto my from the registry:
Installed in less than 10 seconds (incredible)
Started the container->lightning fast (ran lightning fast)





Unix:
Did a



Did a:
apt-get update

```
root@25cd4ed71f9a:/# cd teststuff/
root@25cd4ed71f9a:/teststuff# ls -al
total 12
drwxr-xr-x 2 root root 4096 Nov  3 00:00 .
drwxr-xr-x 1 root root 4096 Nov  2 23:56 ..
-rw-r--r-- 1 root root  122 Nov  2 23:59 test.py
root@25cd4ed71f9a:/teststuff# sudo apt-get update
bash: sudo: command not found
root@25cd4ed71f9a:/teststuff# apt-get update
Hi   http://deb.debian.org/debian buster InRelease
Hit:2 http://deb.debian.org/debian-security buster/updates InRelease
Hit:3 http://deb.debian.org/debian buster-updates InRelease
Reading package lists... Done
root@25cd4ed71f9a:/teststuff# _
```

then

apt-get install nano

Then did a nano test.py and placed the contents:

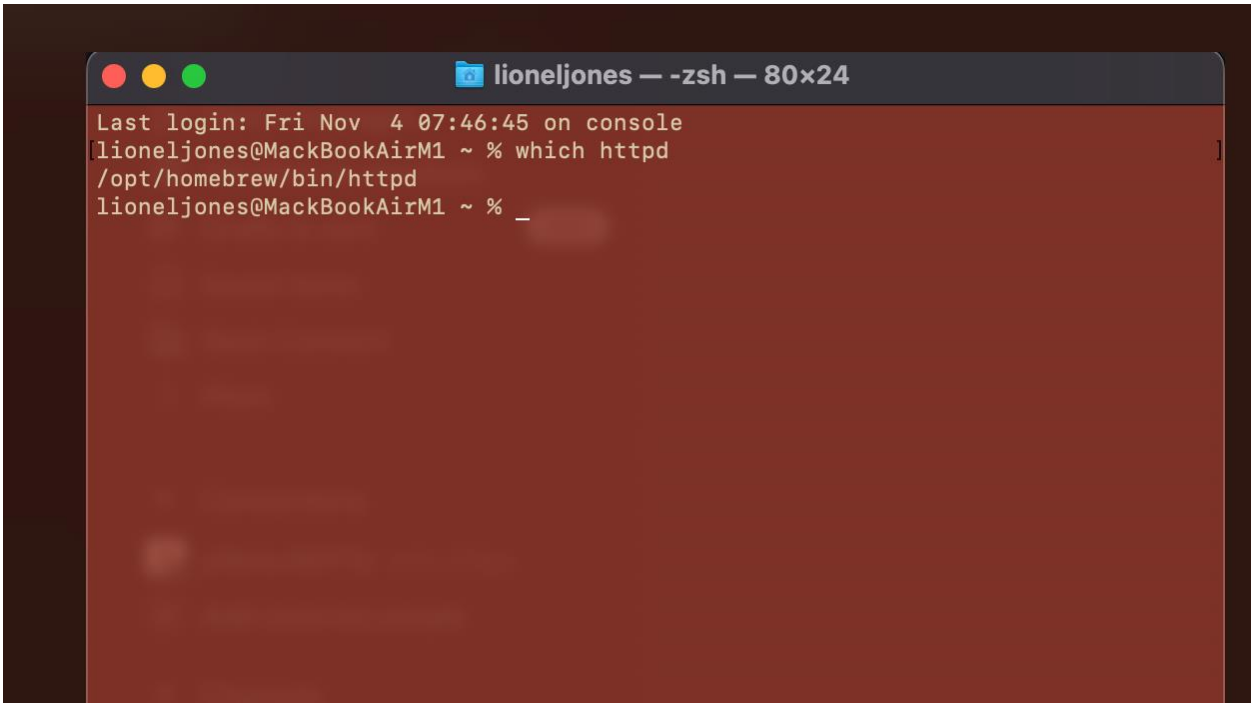
```
  GNU nano 3.2

myList = {"lionel","david","Katherin"}
myList2 = {"Carol","vaughn","lionel"}
xy = myList.intersection(myList2)
print(xy)
```

Then ran the python script.. cool

Tip: Installing a React App with Apache on a MacBook
https://github.com/lionel5116/CheckMateApp.git

https://gist.github.com/ywwwtseng/63c36ccb58a25a09f7096bbb602ac1de

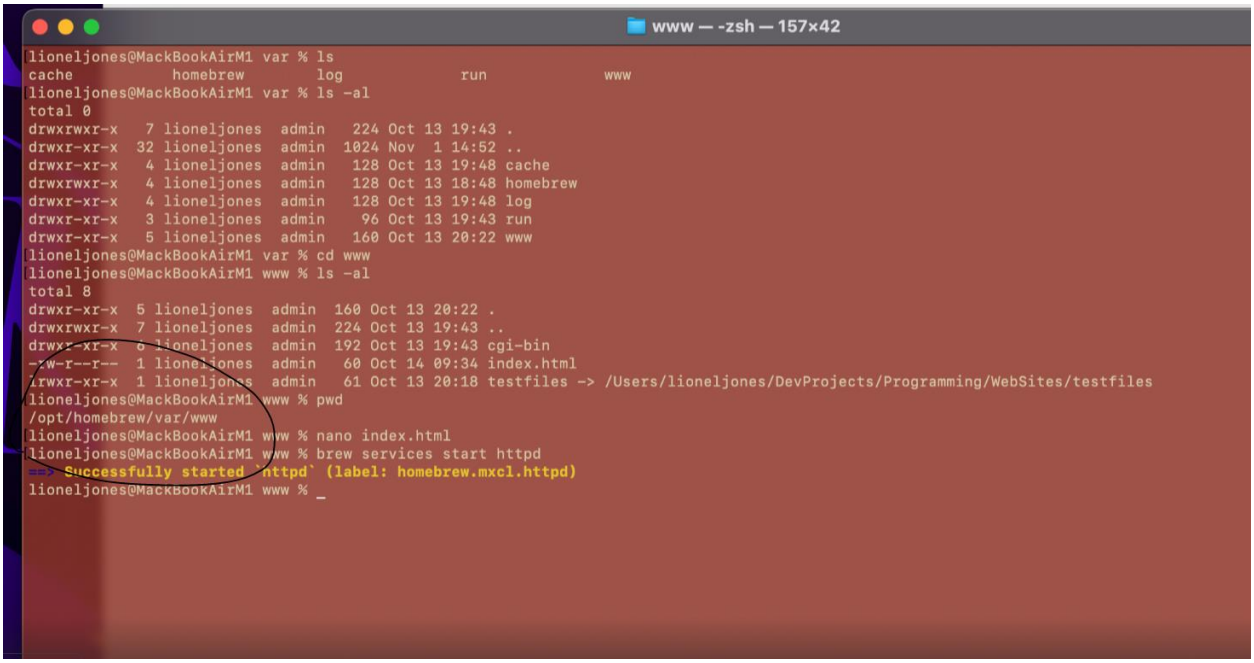
Find out which version of Apache you are running (this determines where to copy over your files)

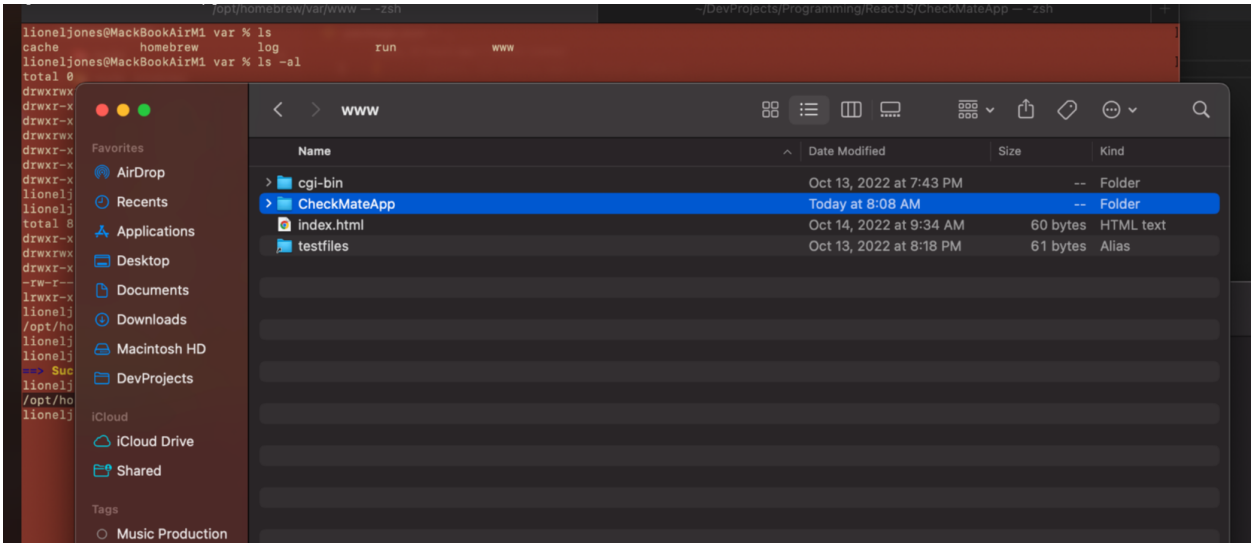


From there you can tell that your www folder is located under:
/opt/homebrew/var/www

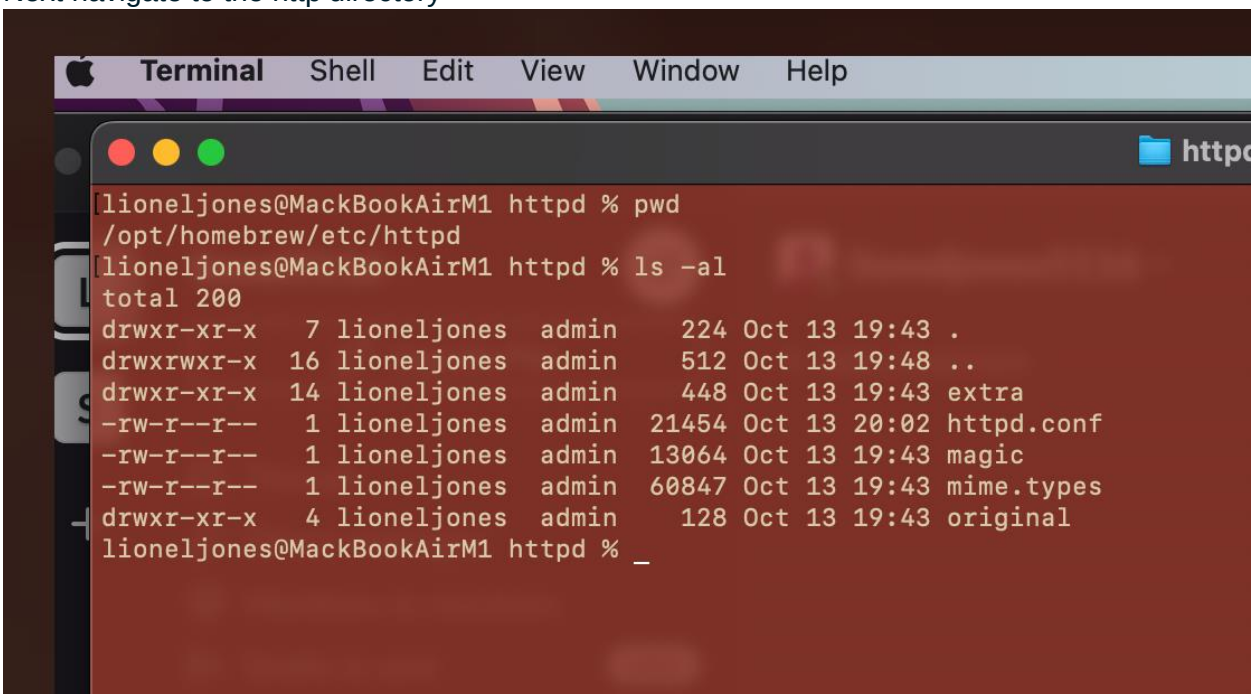
Then
Build your app with npm run build

Copy over your build files to a folder in your wwwroot

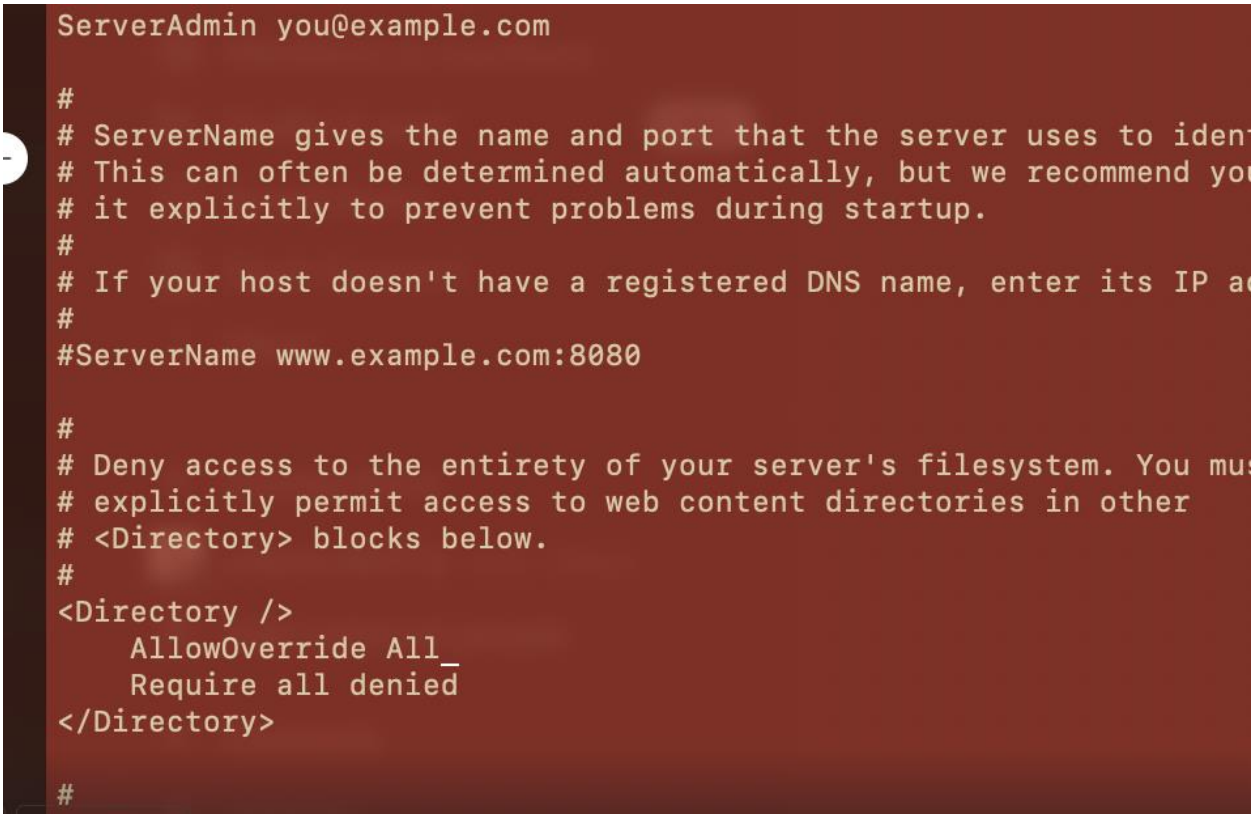

www — -zsh — 157×42
lioneljones@MackBookAirM1 var % ls
cache homebrew log run www
lioneljones@MackBookAirM1 var % ls -al
total 0
drwxrwxr-x 7 lioneljones admin 224 Oct 13 19:43 .
drwxr-xr-x 32 lioneljones admin 1024 Nov 1 14:52 ..
drwxr-xr-x 4 lioneljones admin 128 Oct 13 19:48 cache
drwxrwxr-x 4 lioneljones admin 128 Oct 13 18:48 homebrew
drwxr-xr-x 4 lioneljones admin 128 Oct 13 19:48 log
drwxr-xr-x 3 lioneljones admin 96 Oct 13 19:43 run
drwxr-xr-x 5 lioneljones admin 160 Oct 13 20:22 www
lioneljones@MackBookAirM1 var % cd www
lioneljones@MackBookAirM1 www % ls -al
total 8
drwxr-xr-x 5 lioneljones admin 160 Oct 13 20:22 .
drwxrwxr-x 7 lioneljones admin 224 Oct 13 19:43 ..
drwxr-xr-x 6 lioneljones admin 192 Oct 13 19:43 cgi-bin
-rw-r--r-- 1 lioneljones admin 60 Oct 14 09:34 index.html
lrwxr-xr-x 1 lioneljones admin 61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/testfiles
lioneljones@MackBookAirM1 www % pwd
/opt/homebrew/var/www
lioneljones@MackBookAirM1 www % nano index.html
lioneljones@MackBookAirM1 www % brew services start httpd
==> Successfully started `httpd` (label: homebrew.mxcl.httpd)
lioneljones@MackBookAirM1 www %


www
Favorites
AirDrop
Recents
Applications
Desktop
Documents
Downloads
Macintosh HD
DevProjects
iCloud
iCloud Drive
Shared
Tags
Music Production
Name
Date Modified
Size
Kind
cgi-bin
Oct 13, 2022 at 7:43 PM
Folder
CheckMateApp
Today at 8:08 AM
Folder
index.html
Oct 14, 2022 at 9:34 AM
60 bytes
HTML text
testfiles
Oct 13, 2022 at 8:18 PM
61 bytes
Alias

Next navigate to the http directory

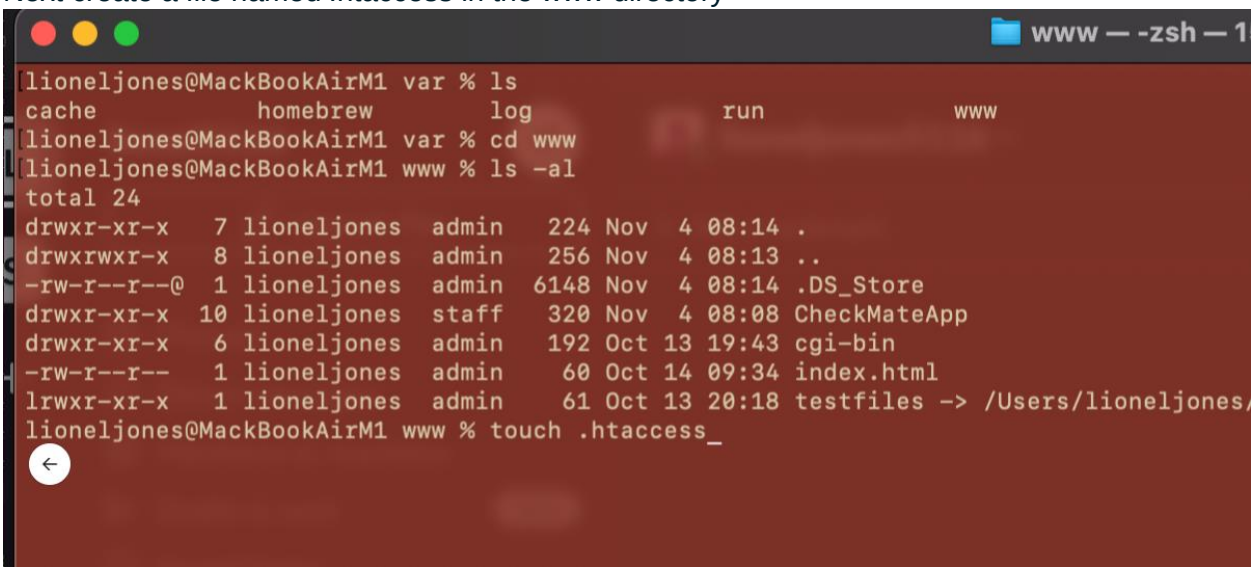


Edit the httpd.conf file:

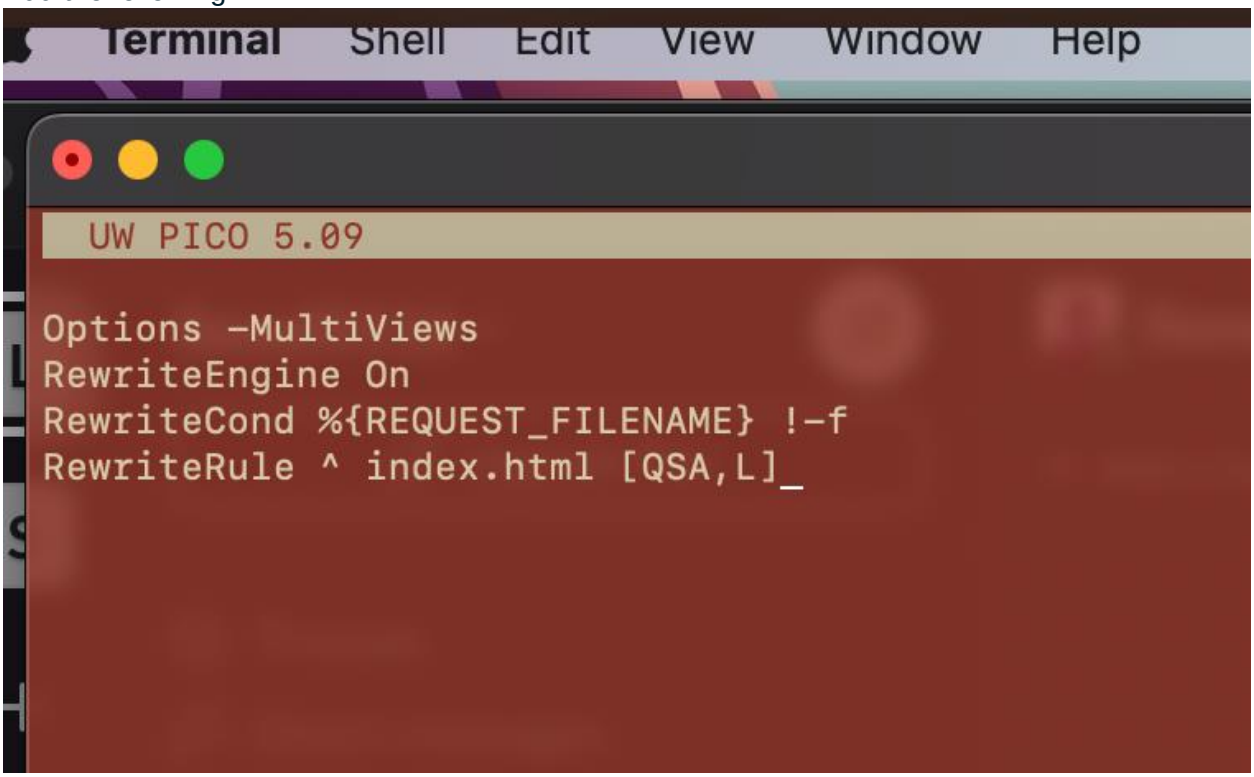


Change the value of AllowOveridde None to All as shown above

Next create a file named .htaccess in the www directory



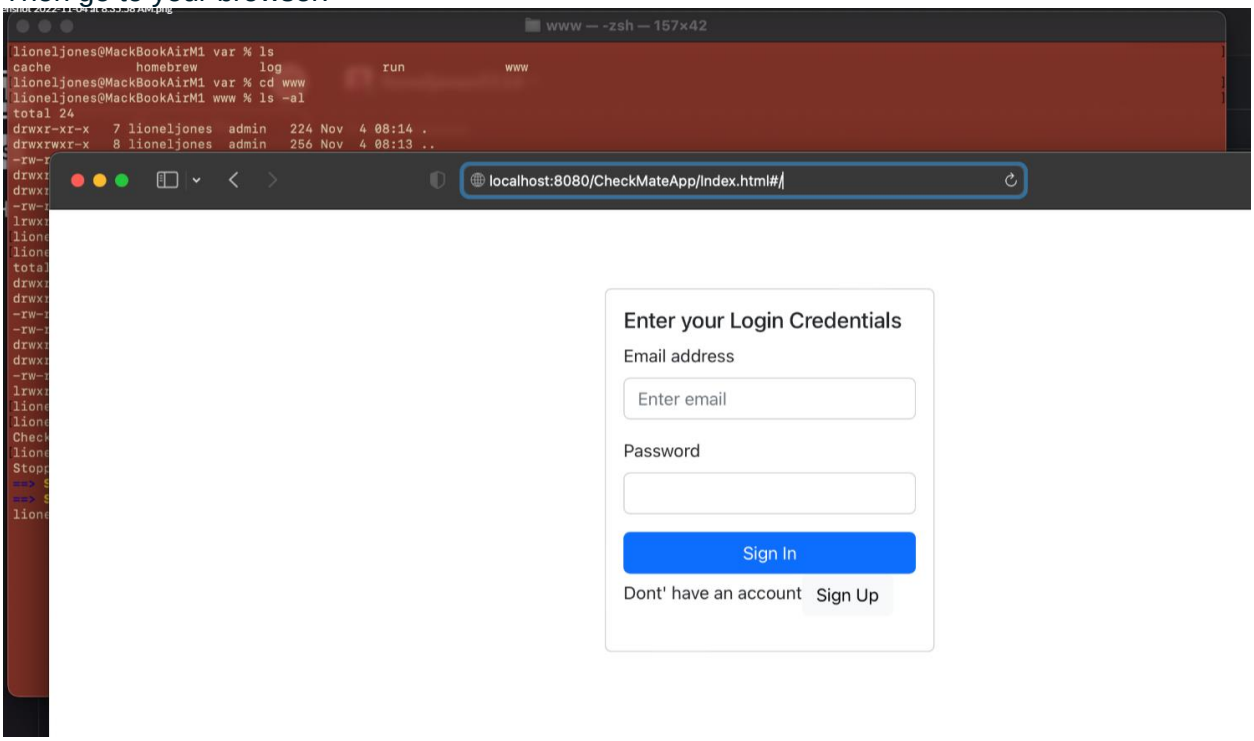
Add the following:



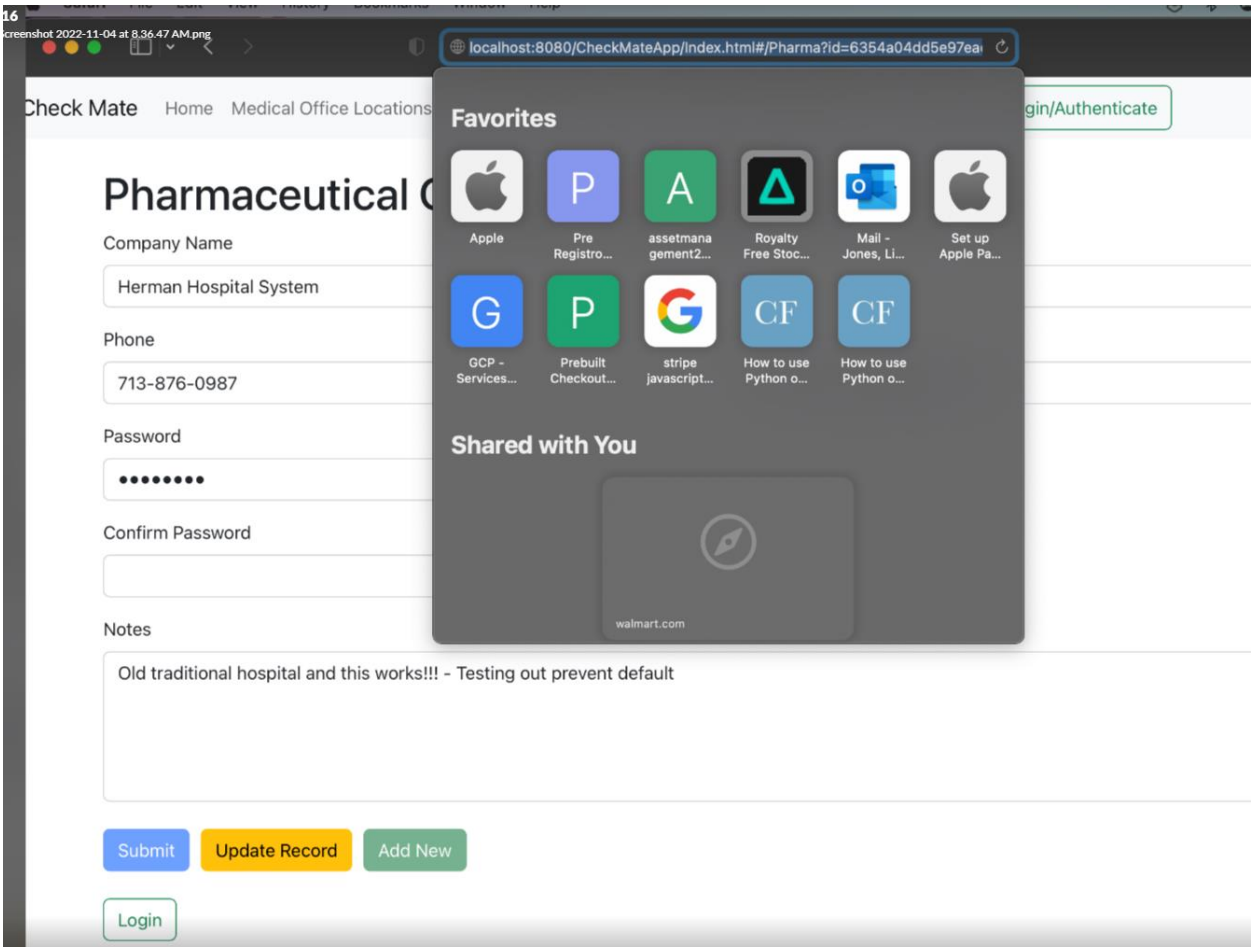
Next Restart Apache

```
lioneljones@MackBookAirM1 var % cd www
lioneljones@MackBookAirM1 www % ls -al
total 24
drwxr-xr-x   7 lioneljones  admin   224 Nov  4 08:14 .
drwxrwxr-x   8 lioneljones  admin   256 Nov  4 08:13 ..
-rw-r--r--@  1 lioneljones  admin  6148 Nov  4 08:14 .DS_Store
drwxr-xr-x  10 lioneljones  staff   320 Nov  4 08:08 CheckMateApp
drwxr-xr-x   6 lioneljones  admin   192 Oct 13 19:43 cgi-bin
-rw-r--r--   1 lioneljones  admin    60 Oct 14 09:34 index.html
lrwxr-xr-x   1 lioneljones  admin    61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/te
lioneljones@MackBookAirM1 www % touch .htaccess
lioneljones@MackBookAirM1 www % ls -al
total 24
drwxr-xr-x   8 lioneljones  admin   256 Nov  4 08:30 .
drwxrwxr-x   8 lioneljones  admin   256 Nov  4 08:13 ..
-rw-r--r--@  1 lioneljones  admin  6148 Nov  4 08:14 .DS_Store
-rw-r--r--   1 lioneljones  admin     0 Nov  4 08:30 .htaccess
drwxr-xr-x  10 lioneljones  staff   320 Nov  4 08:08 CheckMateApp
drwxr-xr-x   6 lioneljones  admin   192 Oct 13 19:43 cgi-bin
-rw-r--r--   1 lioneljones  admin    60 Oct 14 09:34 index.html
lrwxr-xr-x   1 lioneljones  admin    61 Oct 13 20:18 testfiles -> /Users/lioneljones/DevProjects/Programming/WebSites/te
lioneljones@MackBookAirM1 www % nano .htaccess
lioneljones@MackBookAirM1 www % ls
CheckMateApp    cgi-bin         index.html      testfiles
lioneljones@MackBookAirM1 www % brew services restart httpd
Stopping `httpd`... (might take a while)
==> Successfully stopped `httpd` (label: homebrew.mxcl.httpd)
==> Successfully started `httpd` (label: homebrew.mxcl.httpd)
lioneljones@MackBookAirM1 www % _
```

Then go to your browser:



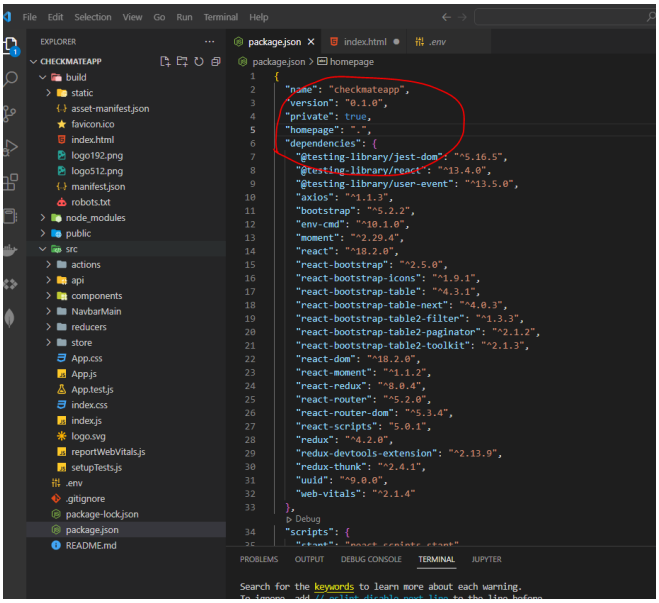
IT works!!!!!



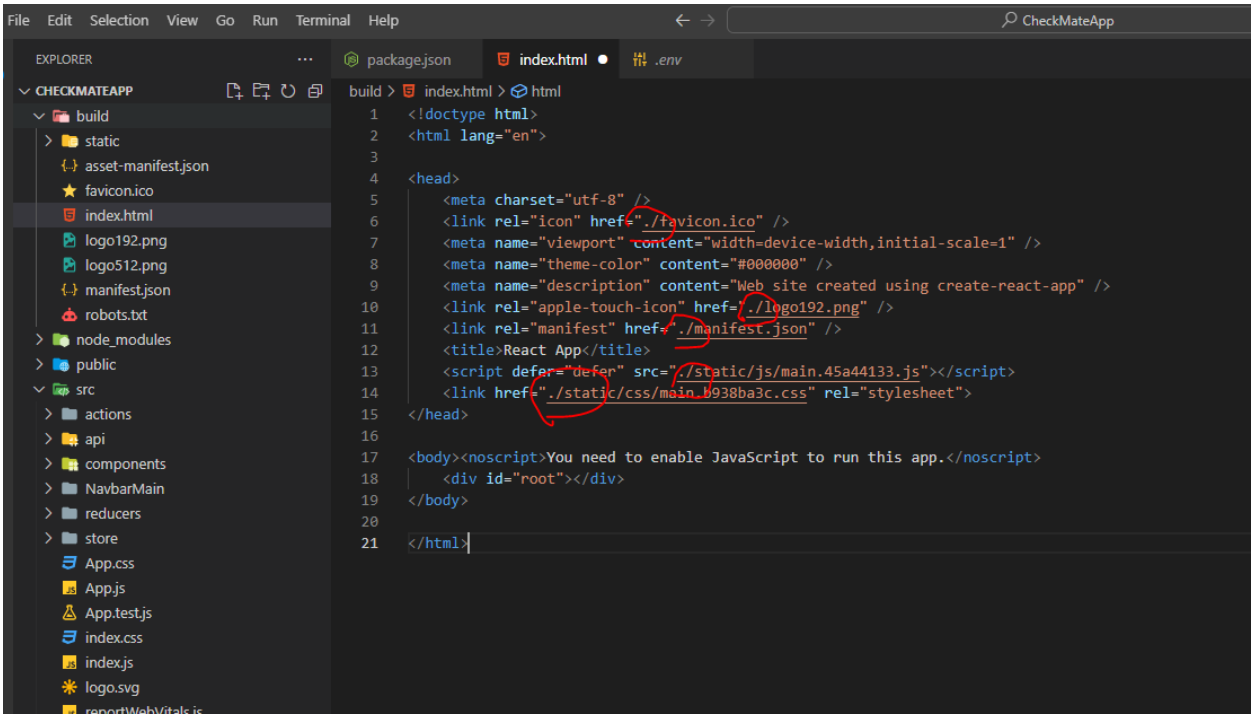
http://localhost:8080/CheckMateApp/Index.html#/Login

Tip: FINALLY TO THE CREATE REACT APP TO WORK WHEN DEPLOYING TO IIS (WITHOUT WEBPACK)

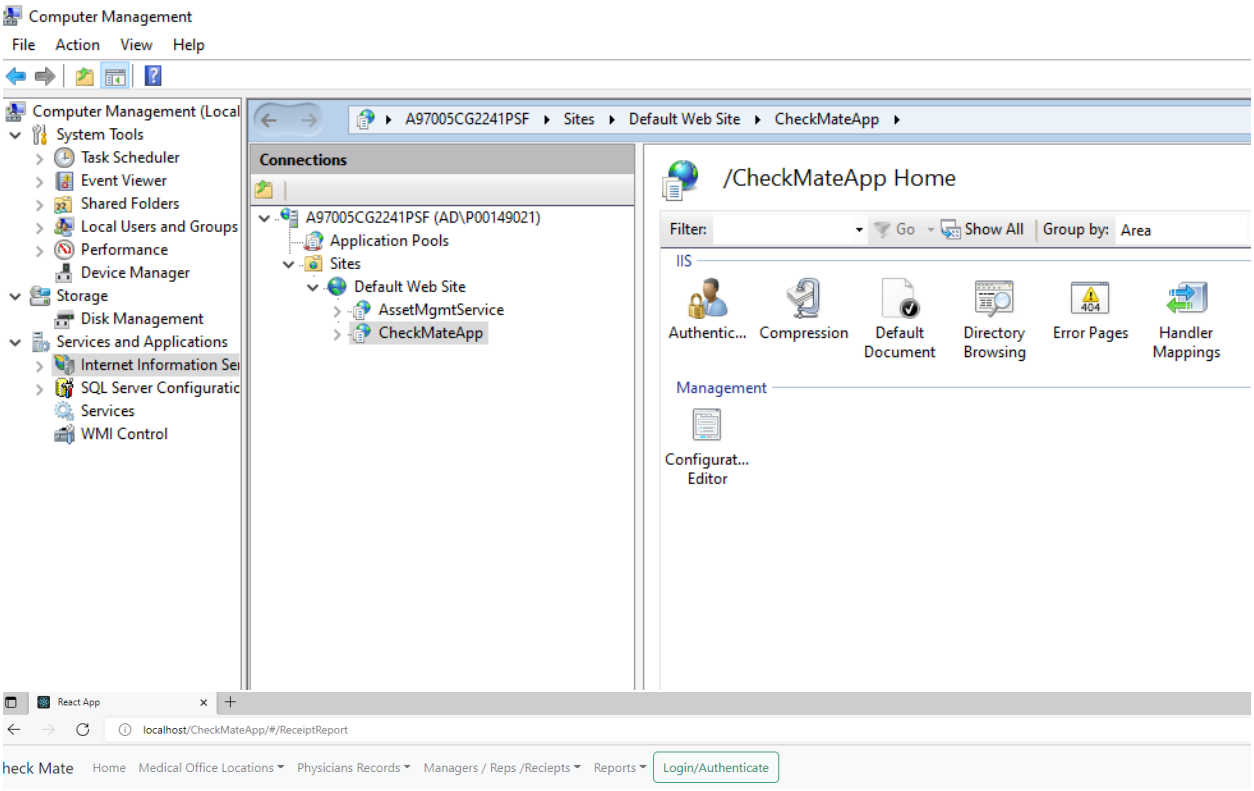
IT'S ALSO OUT ON GITHUB UNDER CHECKMATEAPP
See the fix below:



In your package.json file, add an entry for homepage:
homepage: “.”



On the default build, it does not have the ./ , it has / and that’s an absolute path, we need the ./ . After we put this in our file and re-build (npm run build) and deploy,
It works!!!!!!!



Receipt Report

Enter Search Criteria

All

Representative

Resturant

Restaurant

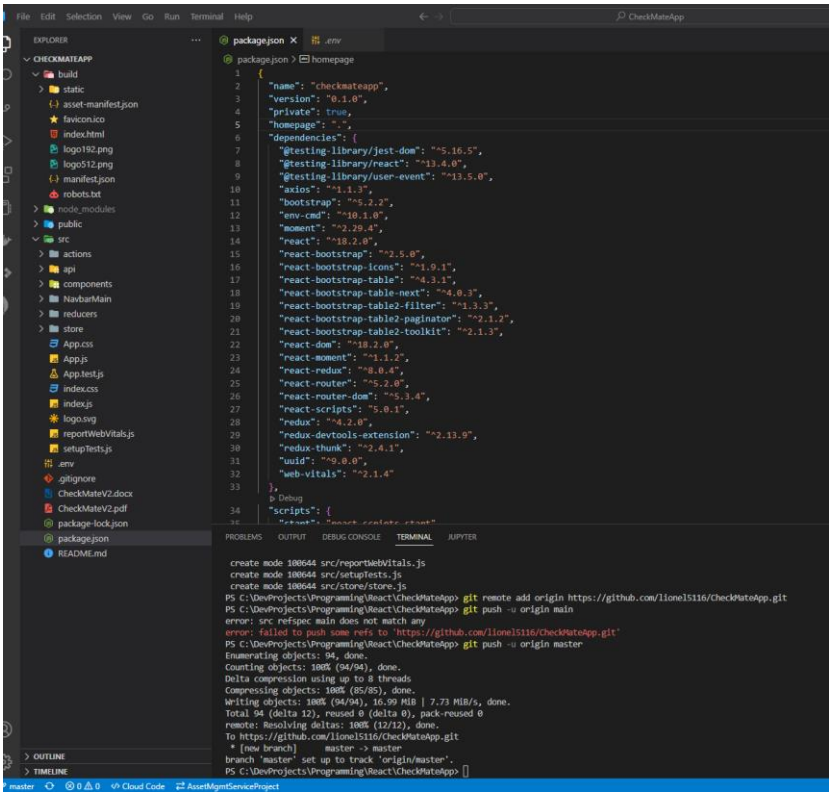
Search Records

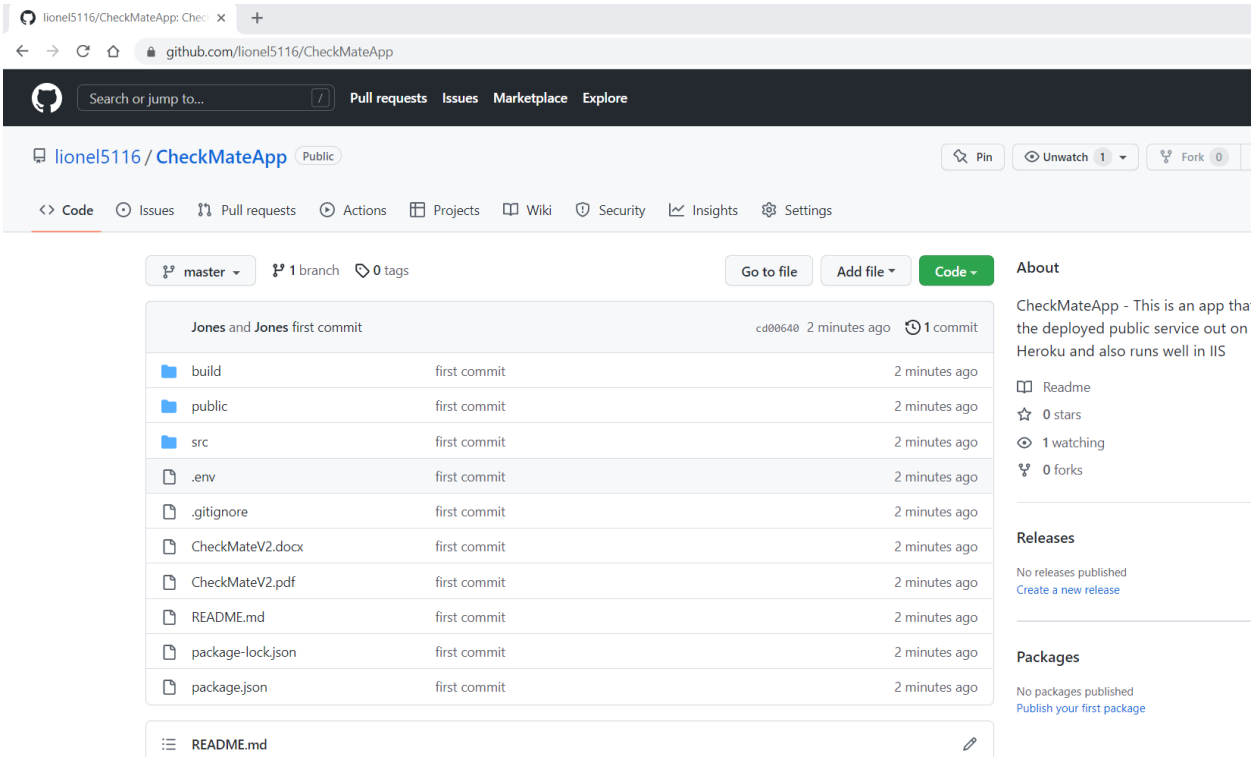
Date	Rep	Restaurant	Amount	SharedAmount	Doctors
9/12/2022	Michaels David	Hugos Fine Fish	350	0	Dr Larry Shaw
10/12/2022	Goode Karle	Papas Steak House	567	200	Mark Roberts, Carl Stone MD

10 Showing rows 1 to 2 of 2 1

Export to CSV

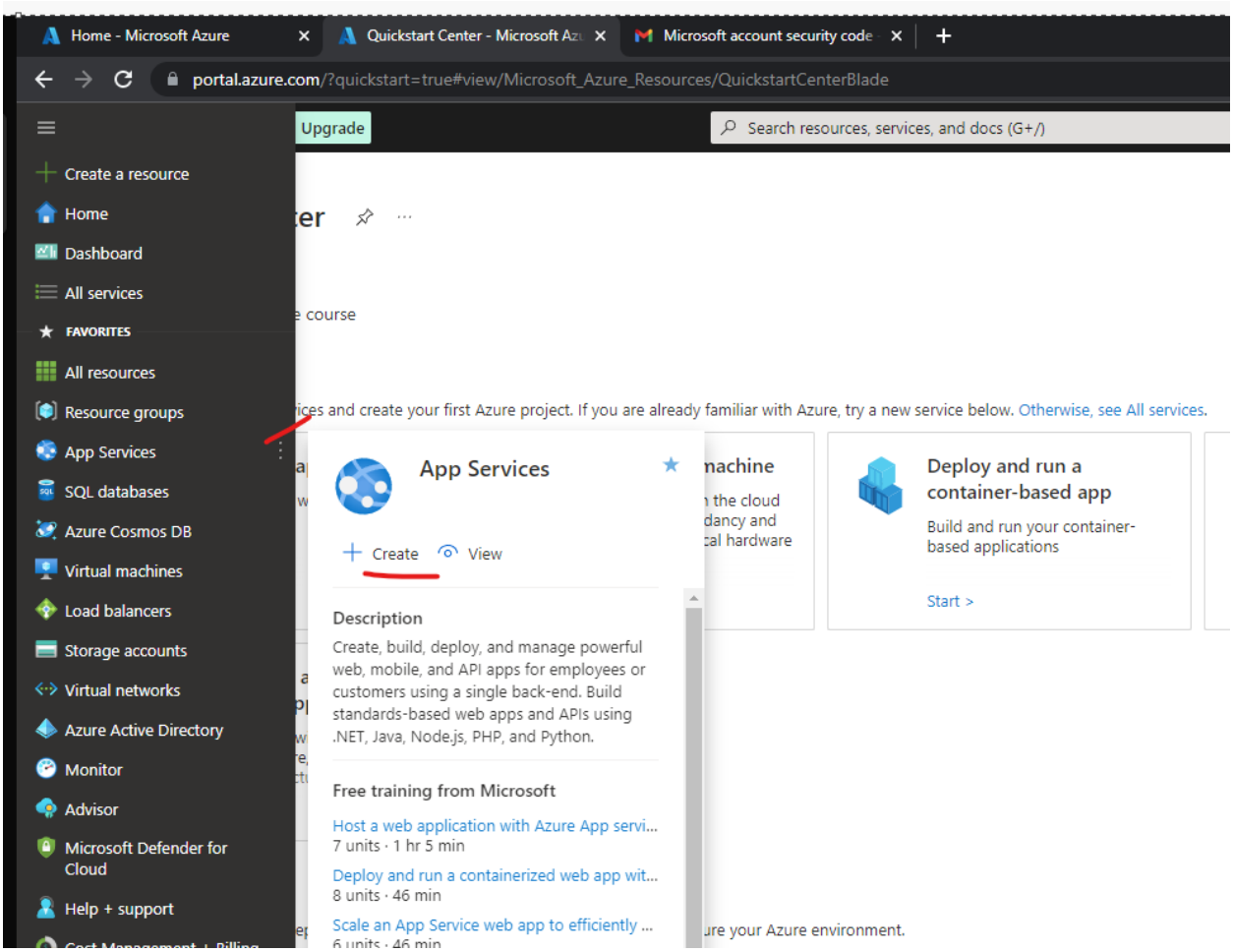
ON GITHUB:


File Edit Selection View Go Run Terminal Help
CheckMateApp
EXPLORER
CHECKMATEAPP
build
static
asset-manifest.json
favicon.ico
index.html
logo192.png
logo512.png
manifest.json
robots.txt
node_modules
public
src
actions
api
components
NavbarMain
reducers
store
App.css
App.js
App.test.js
index.css
index.js
logo.svg
reportWebVitals.js
setupTests.js
.env
.gitignore
CheckMateV2.docx
CheckMateV2.pdf
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
package.json
.env
package.json > homepage
{
"name": "checkmateapp",
"version": "0.1.0",
"private": true,
"homepage": ".",
"dependencies": {
"@testing-library/jest-dom": "^5.16.5",
"@testing-library/react": "^13.4.0",
"@testing-library/user-event": "^13.5.0",
"axios": "^1.1.3",
"bootstrap": "^5.2.2",
"env-cmd": "^10.1.0",
"moment": "^2.29.4",
"react": "^18.2.0",
"react-bootstrap": "^2.5.0",
"react-bootstrap-icons": "^1.9.1",
"react-bootstrap-table": "^4.3.1",
"react-bootstrap-table-next": "^4.0.3",
"react-bootstrap-table2-filter": "^1.3.3",
"react-bootstrap-table2-paginator": "^2.1.2",
"react-bootstrap-table2-toolkit": "^2.1.3",
"react-dom": "^18.2.0",
"react-moment": "^1.1.2",
"react-redux": "^8.0.4",
"react-router": "^5.2.0",
"react-router-dom": "^5.3.4",
"react-scripts": "5.0.1",
"redux": "^4.2.0",
"redux-devtools-extension": "^2.13.9",
"redux-thunk": "^2.4.1",
"uuid": "^9.0.0",
"web-vitals": "^2.1.4"
},
Debug
"scripts": {
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
create mode 100644 src/reportWebVitals.js
create mode 100644 src/setupTests.js
create mode 100644 src/store/store.js
PS C:\DevProjects\Programming\React\CheckMateApp> git remote add origin https://github.com/lionel5116/CheckMateApp.git
PS C:\DevProjects\Programming\React\CheckMateApp> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/lionel5116/CheckMateApp.git'
PS C:\DevProjects\Programming\React\CheckMateApp> git push -u origin master
Enumerating objects: 94, done.
Counting objects: 100% (94/94), done.
Delta compression using up to 8 threads
Compressing objects: 100% (85/85), done.
Writing objects: 100% (94/94), 16.99 MiB | 7.73 MiB/s, done.
Total 94 (delta 12), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (12/12), done.
To https://github.com/lionel5116/CheckMateApp.git
* [new branch] master -> master
branch 'master' set up to track 'origin/master'.
PS C:\DevProjects\Programming\React\CheckMateApp>
master
0 0
Cloud Code
AssetMgmtServiceProject

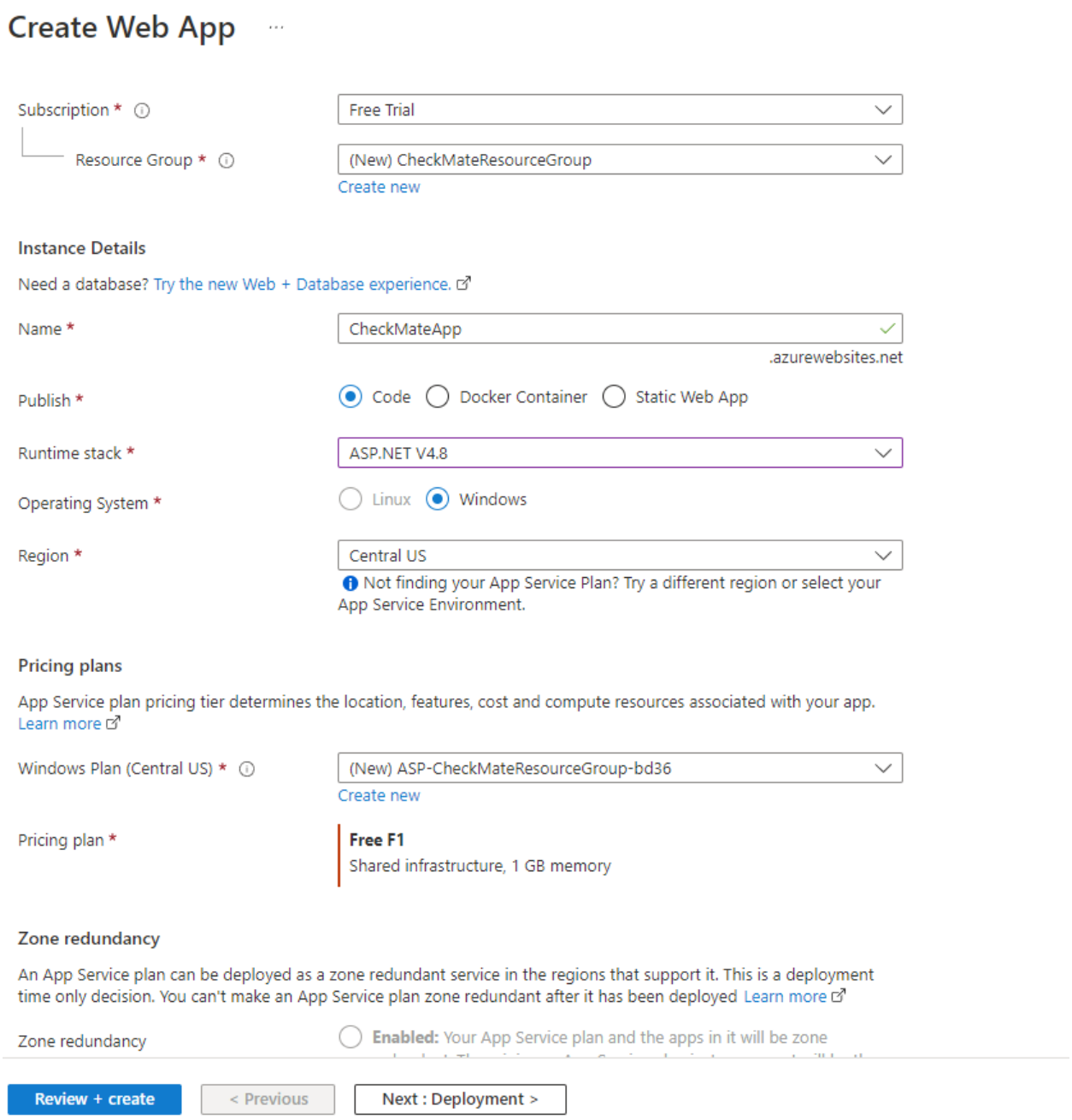

lionel5116/CheckMateApp: Chec
github.com/lionel5116/CheckMateApp
Search or jump to...
Pull requests
Issues
Marketplace
Explore
lionel5116 / CheckMateApp
Public
Pin
Unwatch 1
Fork 0
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
master
1 branch
0 tags
Go to file
Add file
Code
Jones and Jones first commit
cd00640 2 minutes ago
1 commit
build first commit 2 minutes ago
public first commit 2 minutes ago
src first commit 2 minutes ago
.env first commit 2 minutes ago
.gitignore first commit 2 minutes ago
CheckMateV2.docx first commit 2 minutes ago
CheckMateV2.pdf first commit 2 minutes ago
README.md first commit 2 minutes ago
package-lock.json first commit 2 minutes ago
package.json first commit 2 minutes ago
README.md
About
CheckMateApp - This is an app tha
the deployed public service out on
Heroku and also runs well in IIS
Readme
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release
Packages
No packages published
Publish your first package

Tip: Deploying a reactjs app to Azure
https://portal.azure.com/
I used my BA Essentials Card
First (After you have signed up for the free plan)

First you have to go to the portal and create app service
Go the burger menu and select – Create an app service

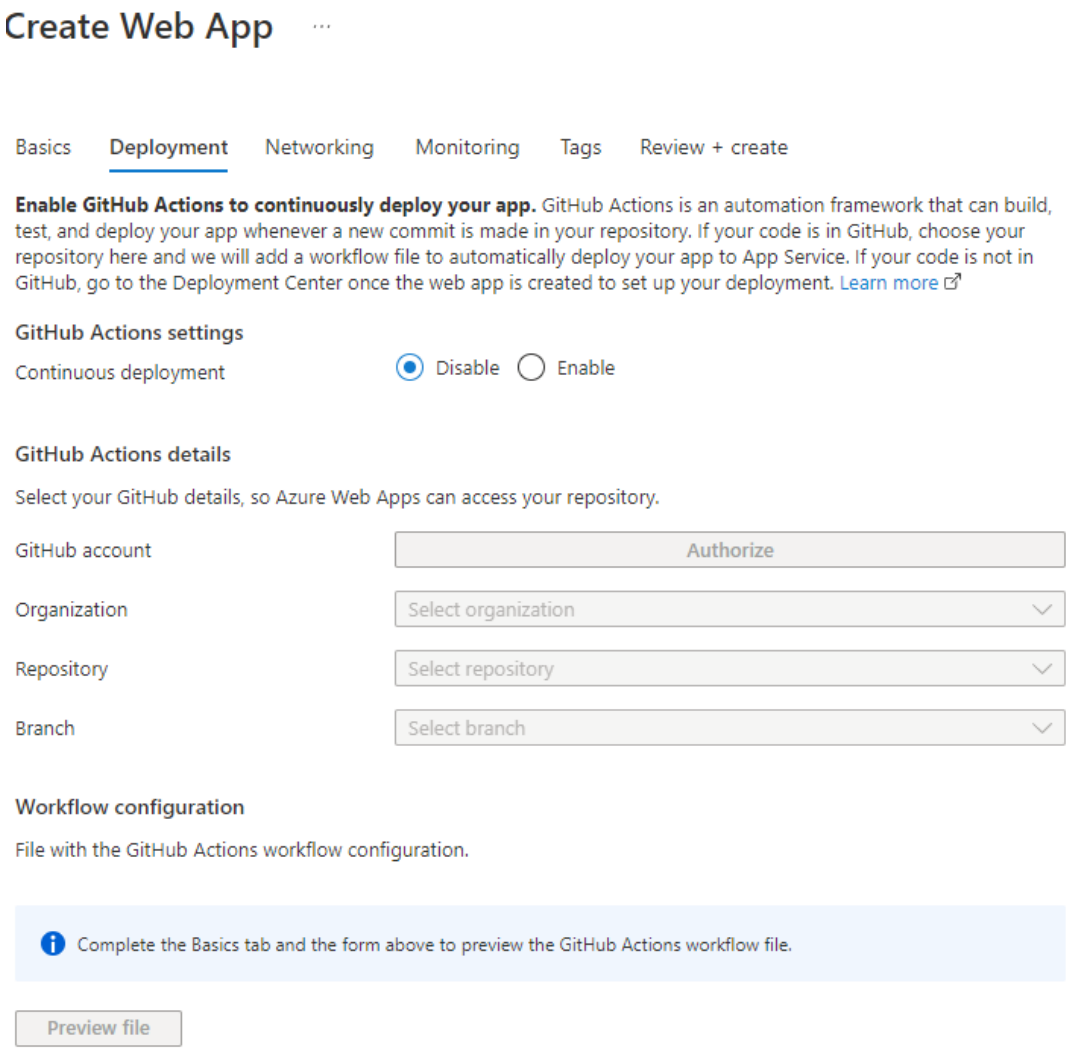


Enter details below:



CheckMateApp.azurewebsites.net

Leave the next section disabled



Leave all the other sections disabled as well, just go over to review+ create

Create Web App ...

Basics | Deployment | Networking | Monitoring | Tags | **Review + create**

Summary

Web App
by Microsoft

Free sku
Estimated price - Free

Details

Subscription	7622a2e6-90e9-45ef-99d9-0a51a853e45c
Resource Group	CheckMateResourceGroup
Name	CheckMateApp
Publish	Code
Runtime stack	ASP.NET V4.8

App Service Plan (New)

Name	ASP-CheckMateResourceGroup-bd36
Operating System	Windows
Region	Central US
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

Monitoring (New)

Application Insights	Enabled
Name	CheckMateApp
Region	Central US

Deployment

Continuous deployment	Not enabled / Set up after app creation

Create | < Previous | Next > | Download a template for automation

Just hit create
Once deployed, go to the dashboard

Hi lionel, see what more you can get from your Azure free account.

View remaining credit to try any service, or browse free services included with your account.

Take a free online course on Microsoft Learn

Watch a demo and attend a live Q&A

Start a project with Quickstart Center

Explore support resources

Azure services

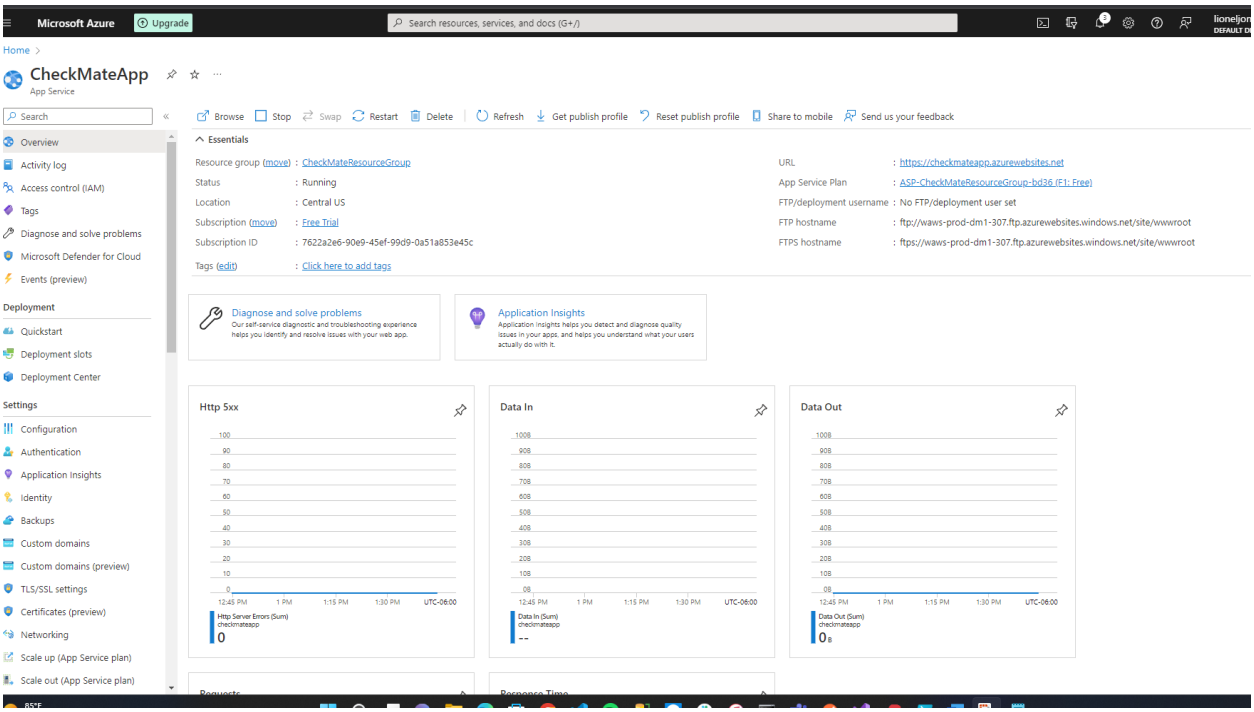
Create a resource | Cost Management ... | Service Bus | App Services | All resources | Resource groups | Quickstart Center | Virtual machines | Storage accounts | More services

Resources

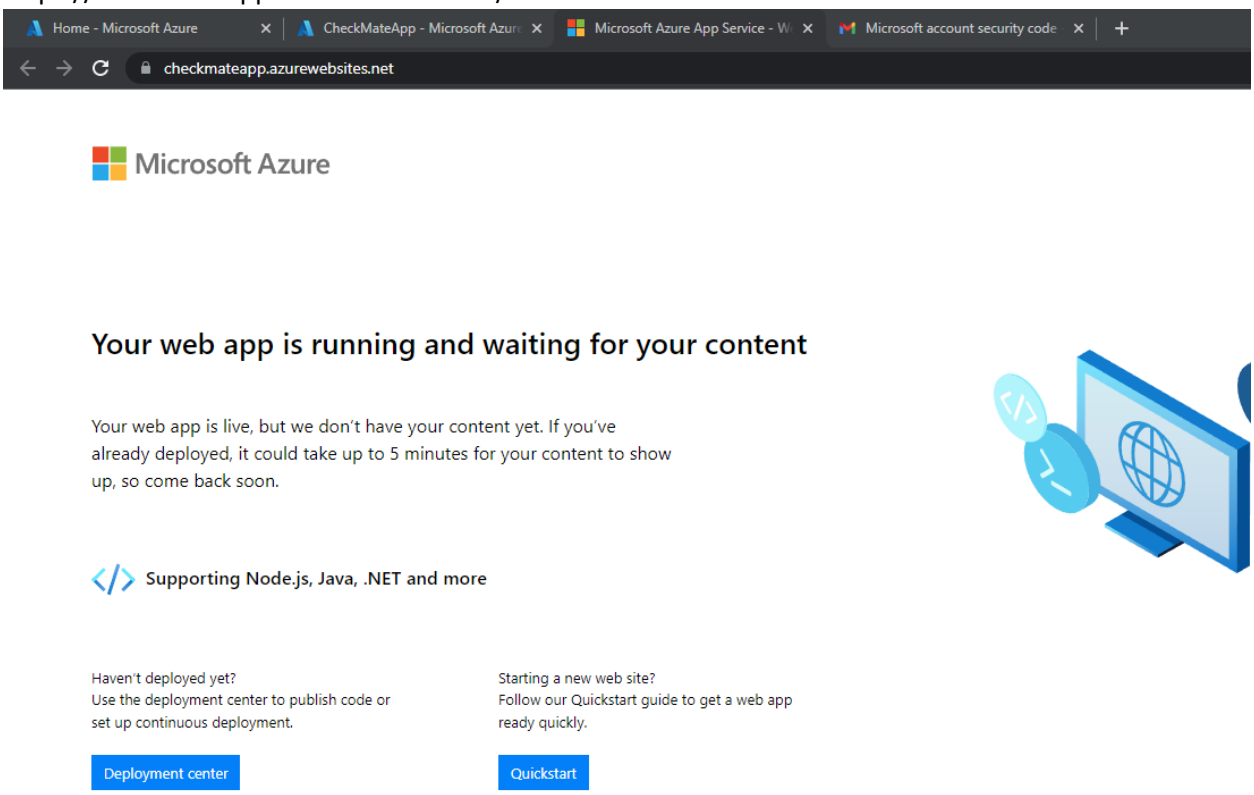
Recent | Favorite

Name	Type	Last Viewed
CheckMateApp	App Service	a few seconds ago
CheckMateResourceGroup	Resource group	a few seconds ago

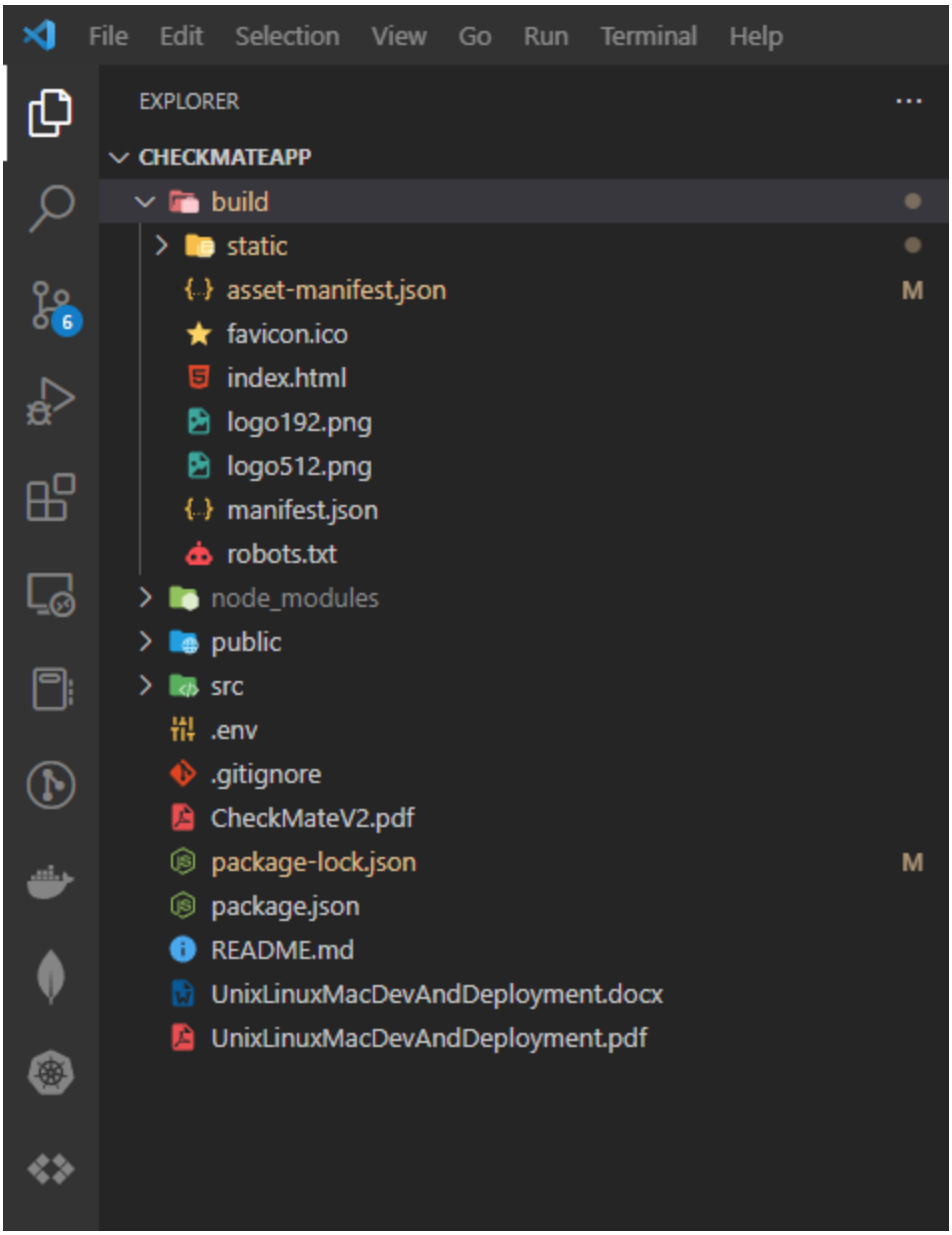
See all

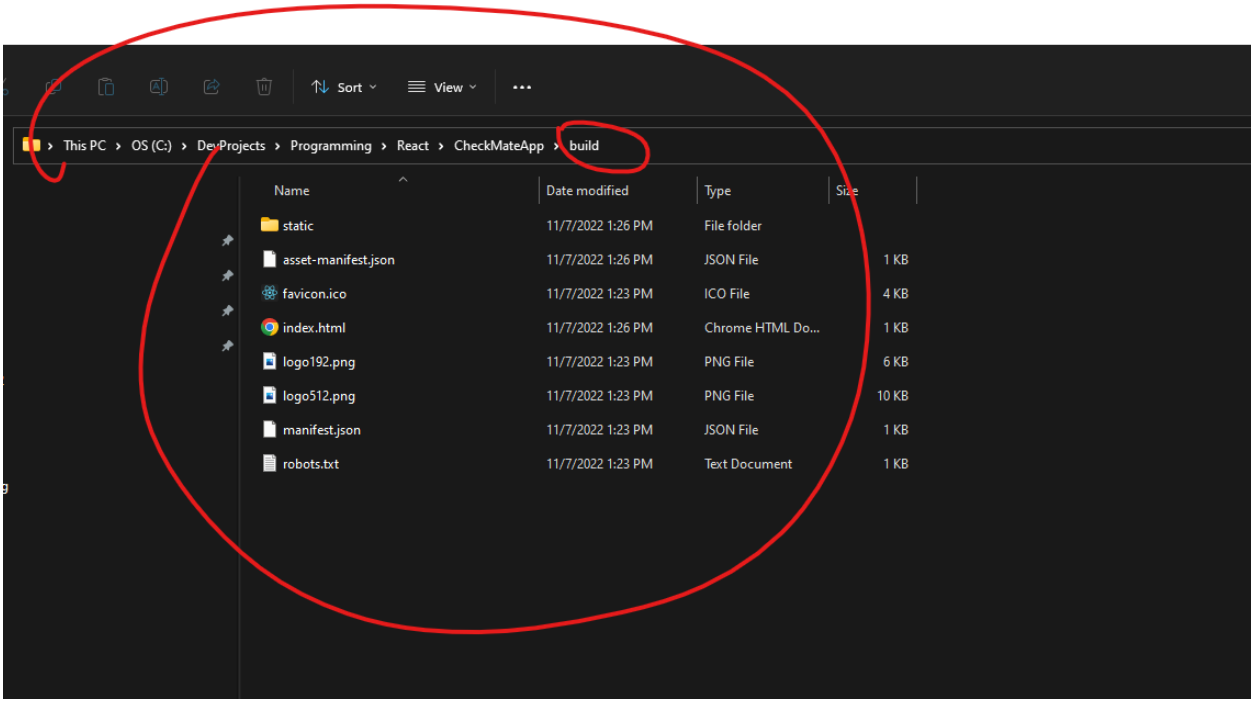


https://checkmateapp.azurewebsites.net/

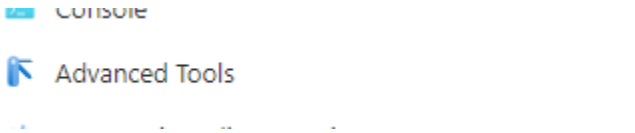


Next go to VSCode and build you app (npm run build)

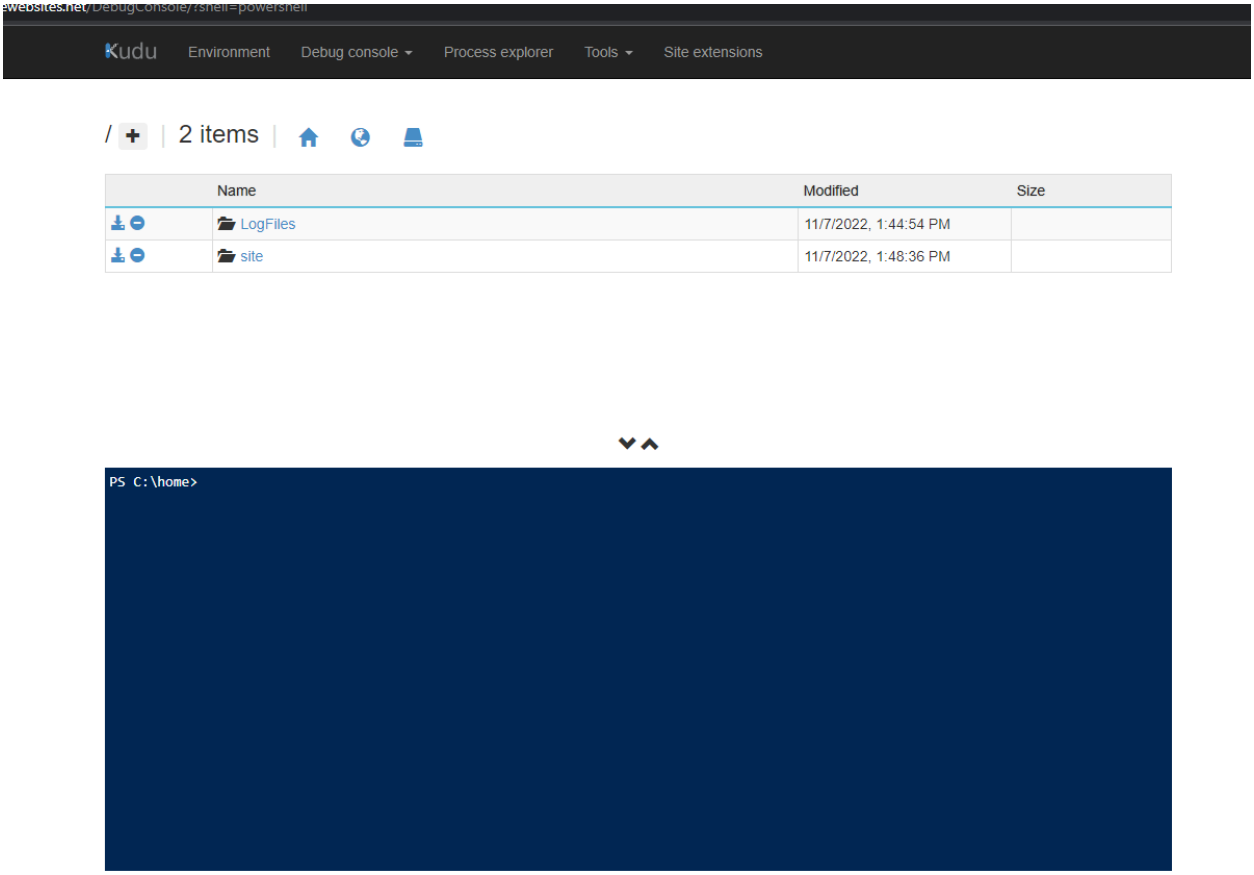

File Edit Selection View Go Run Terminal Help
EXPLORER
CHECKMATEAPP
build
static
asset-manifest.json
M
favicon.ico
index.html
logo192.png
logo512.png
manifest.json
robots.txt
node_modules
public
src
.env
.gitignore
CheckMateV2.pdf
package-lock.json
M
package.json
README.md
UnixLinuxMacDevAndDeployment.docx
UnixLinuxMacDevAndDeployment.pdf

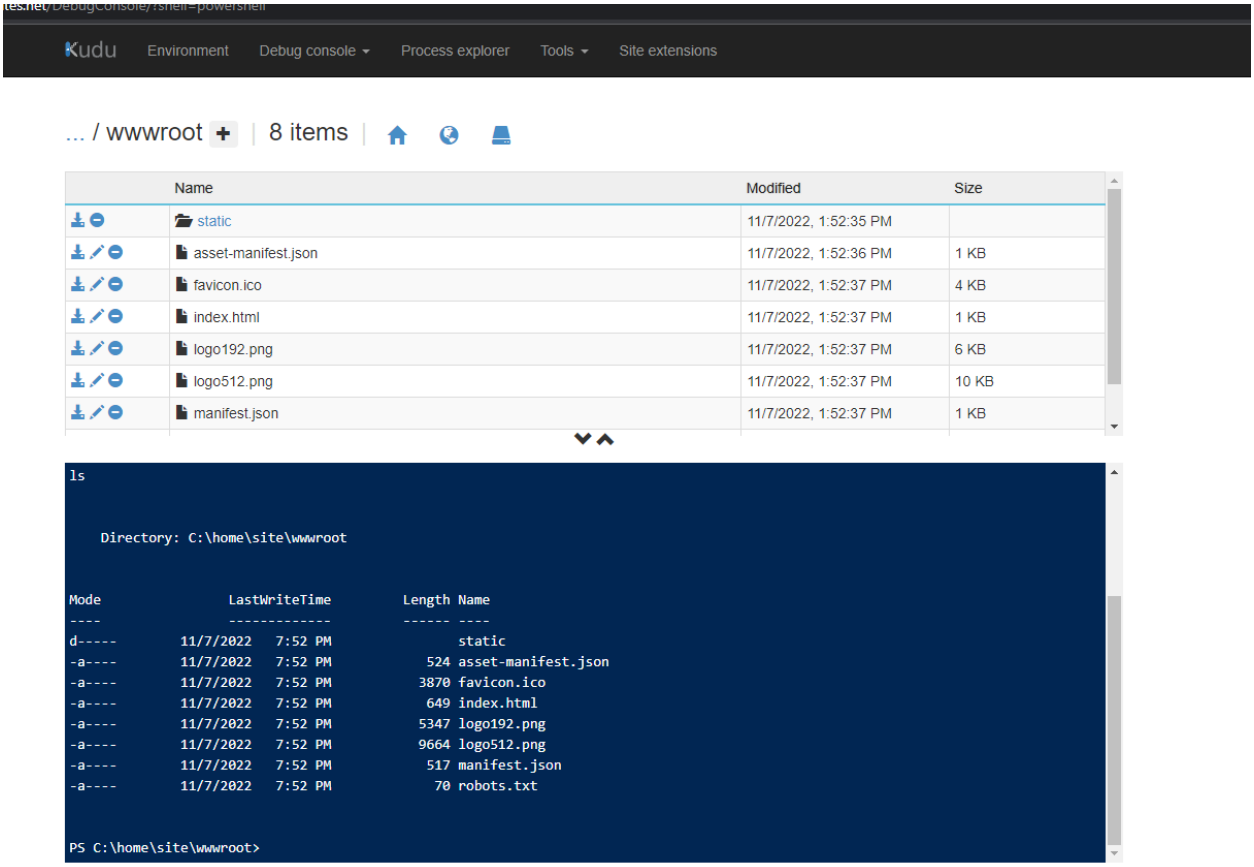


Next go the portal. Select advanced tools:

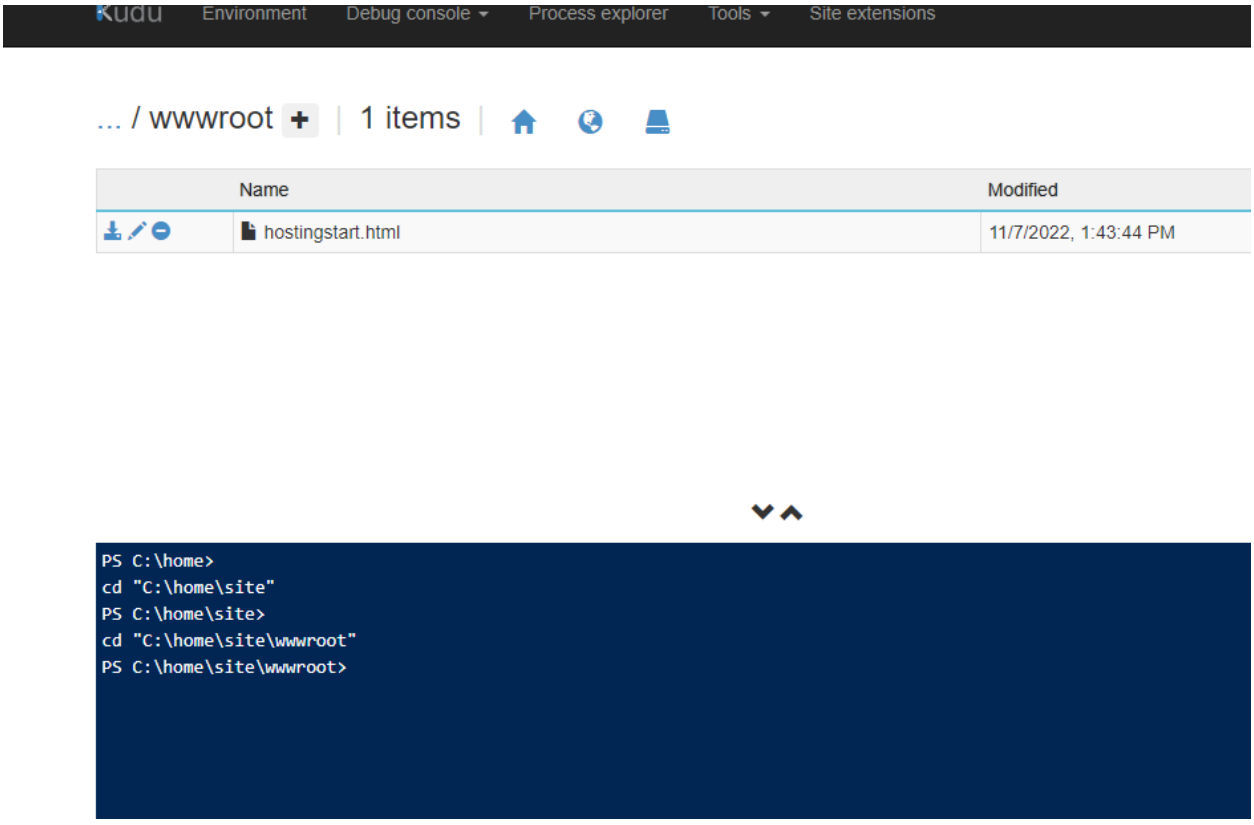


Select Powershell or cmd under the debug console

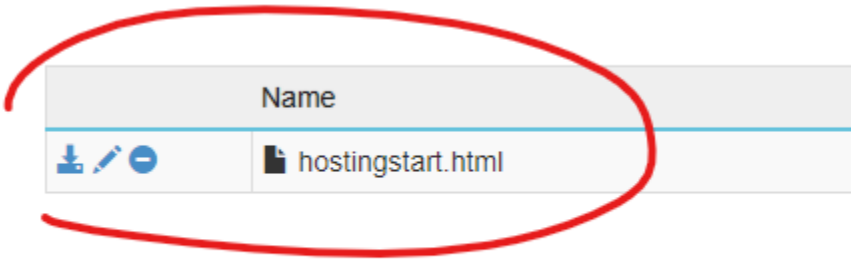

websites.net/DebugConsole/?shell=powershell
Kudu
Environment
Debug console
Process explorer
Tools
Site extensions
/
2 items
Name
Modified
Size
LogFiles
11/7/2022, 1:44:54 PM
site
11/7/2022, 1:48:36 PM
PS C:\home>



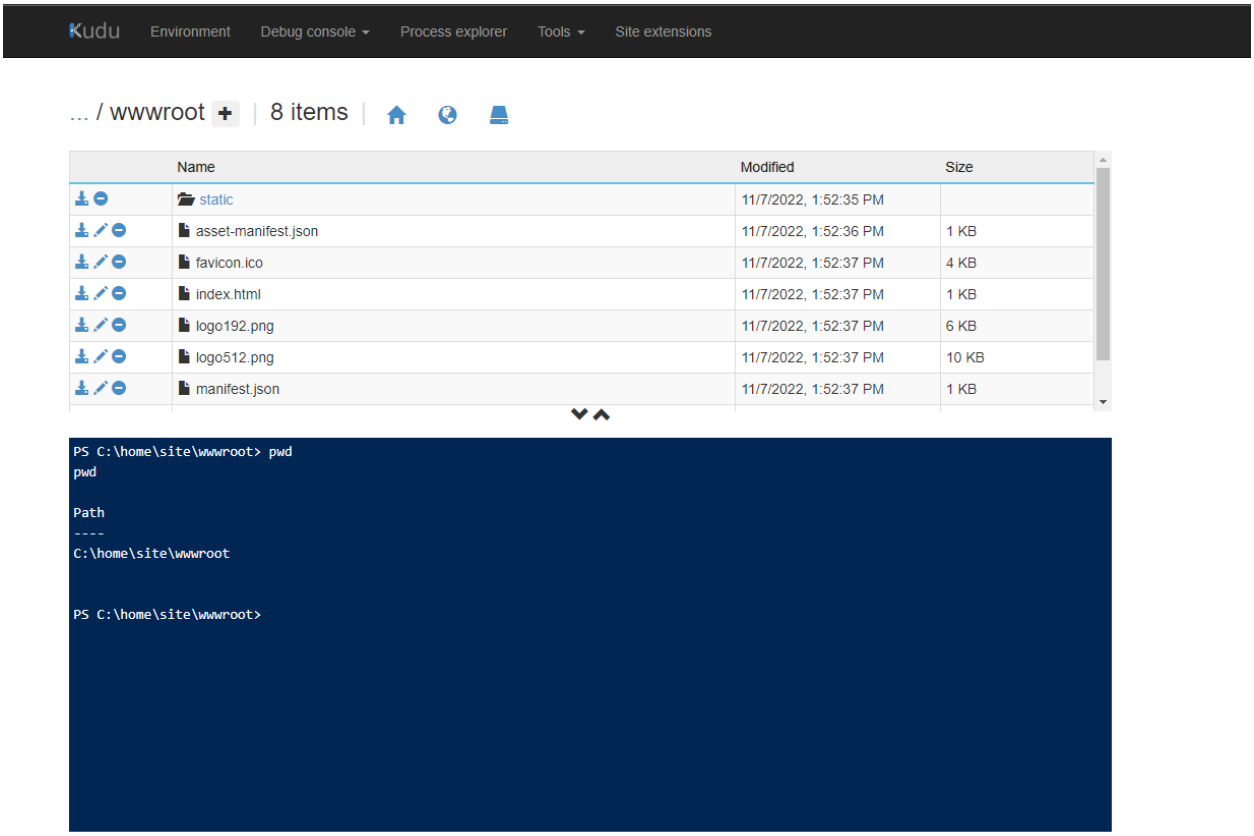
Click on site, wwwroot



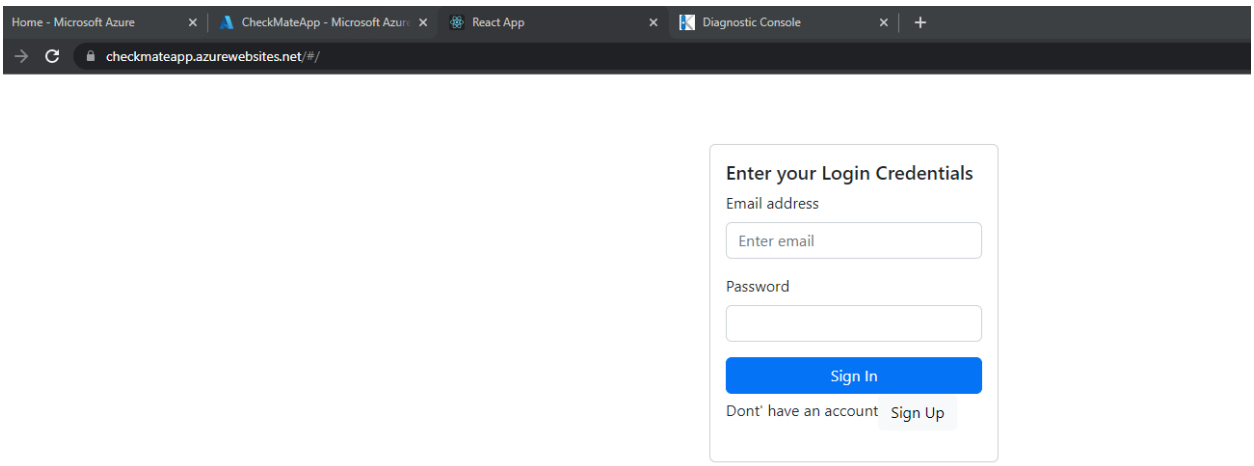
Remove the default file

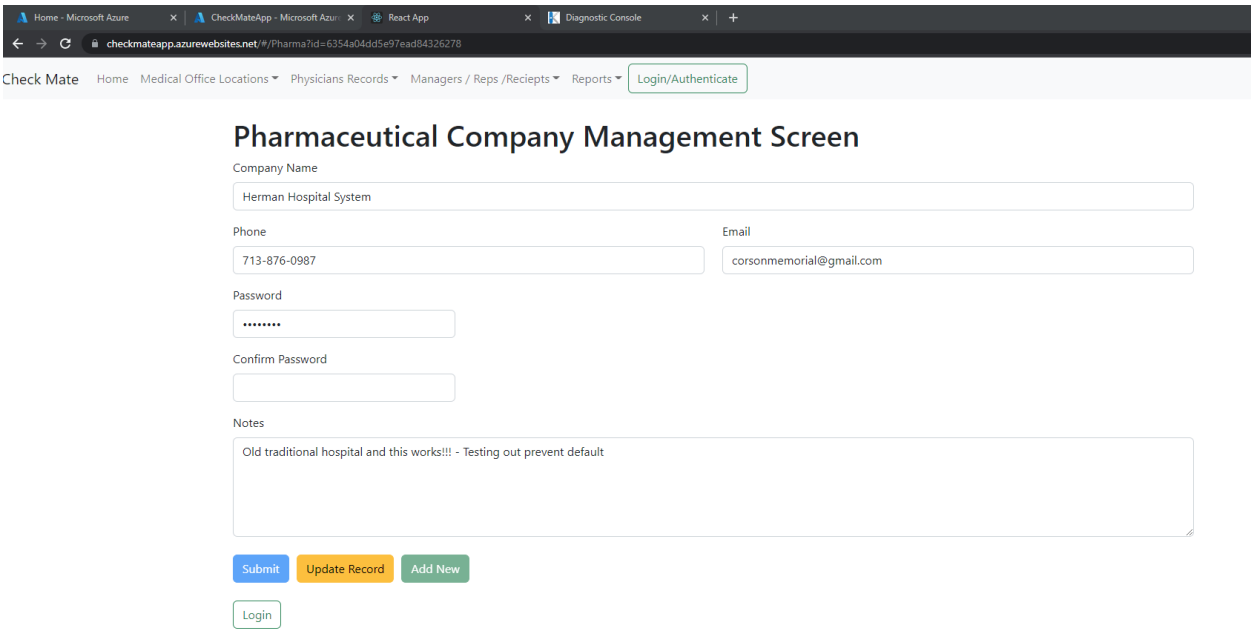


Then drag you files from explorer (you build folder to the wwwroot folder)



Now browse
https://checkmateapp.azurewebsites.net/#/




Home - Microsoft Azure
CheckMateApp - Microsoft Azur
React App
Diagnostic Console
checkmateapp.azurewebsites.net/#/Pharma?id=6354a04dd5e97ead84326278
Check Mate
Home
Medical Office Locations
Physicians Records
Managers / Reps /Reciepts
Reports
Login/Authenticate
Pharmaceutical Company Management Screen
Company Name
Herman Hospital System
Phone
713-876-0987
Email
corsonmemorial@gmail.com
Password
Confirm Password
Notes
Old traditional hospital and this works!!! - Testing out prevent default
Submit
Update Record
Add New
Login