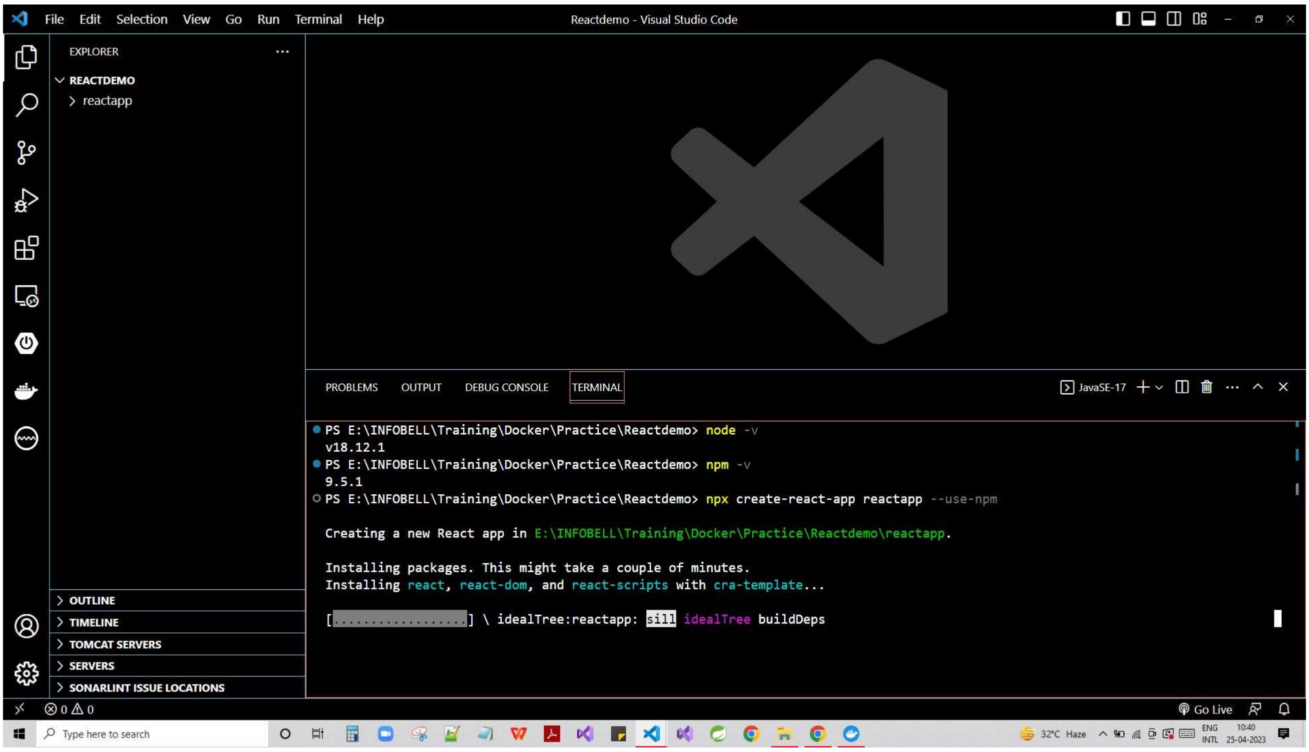
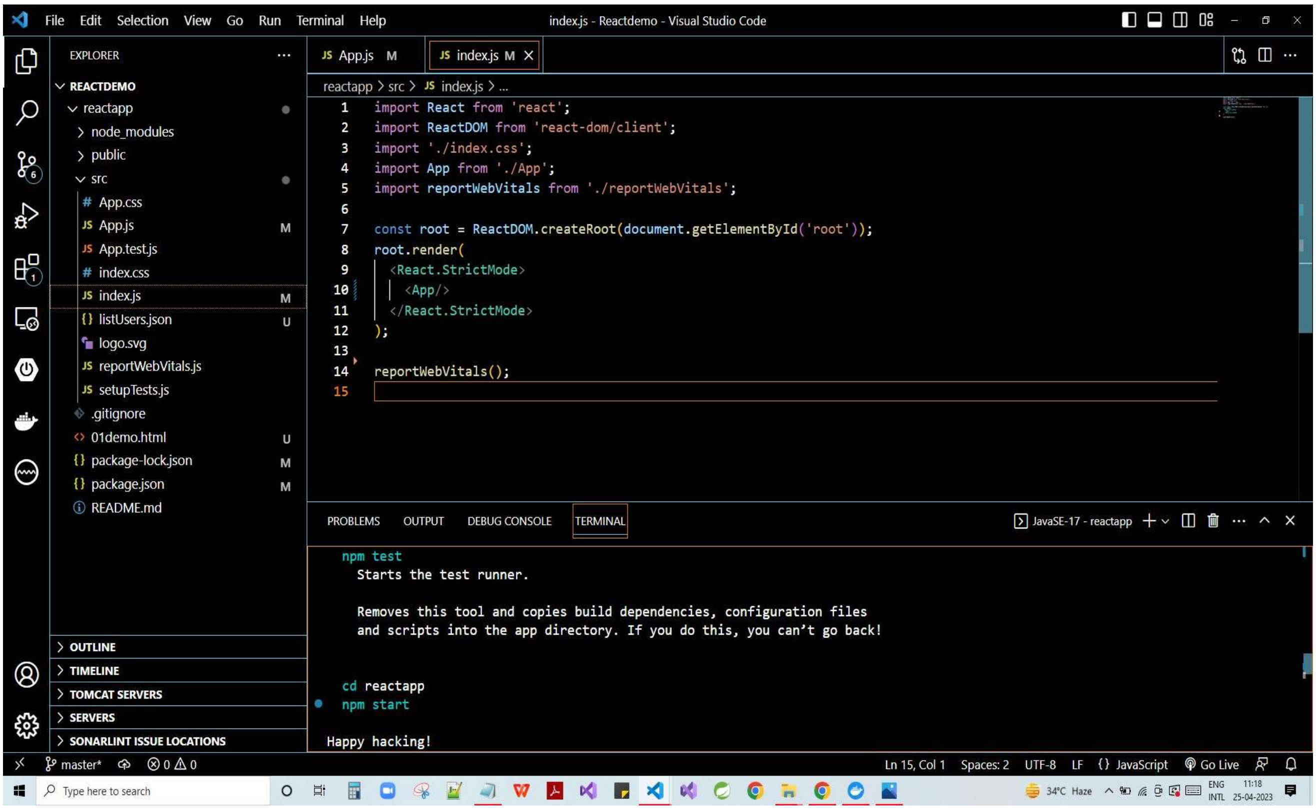
- ## Docker with React Application

// Creating a React Application (npx create react-app)



```
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo> node -v
v18.12.1
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo> npm -v
9.5.1
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo> npx create-react-app reactapp --use-npm

Creating a new React app in E:\INFOBELL\Training\Docker\Practice\Reactdemo\reactapp.

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

[..................] \ idealTree:reactapp: sill idealTree buildDeps
```

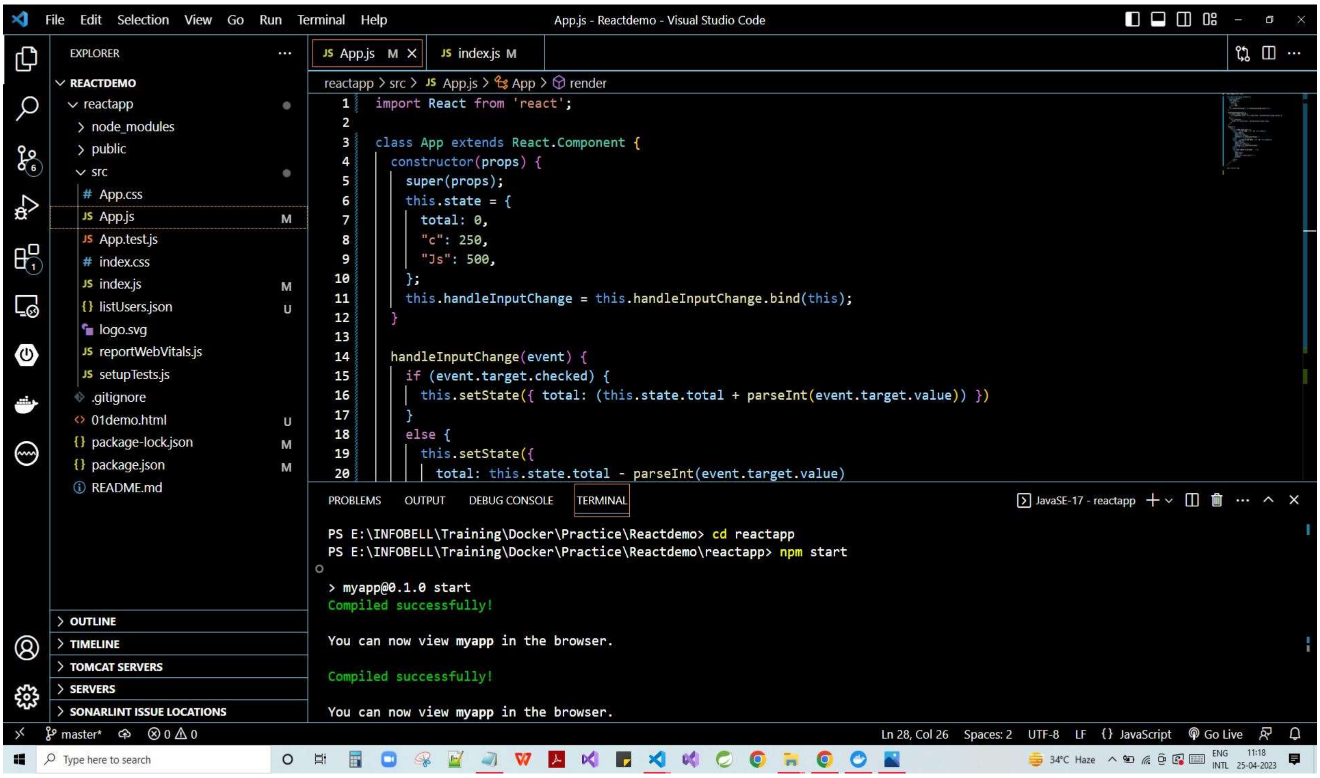
// React Application created with index.js and App.js



```javascript
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App/>
  </React.StrictMode>
);

reportWebVitals();

```

```
  npm test
    Starts the test runner.

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


  cd reactapp
  npm start

Happy hacking!
```

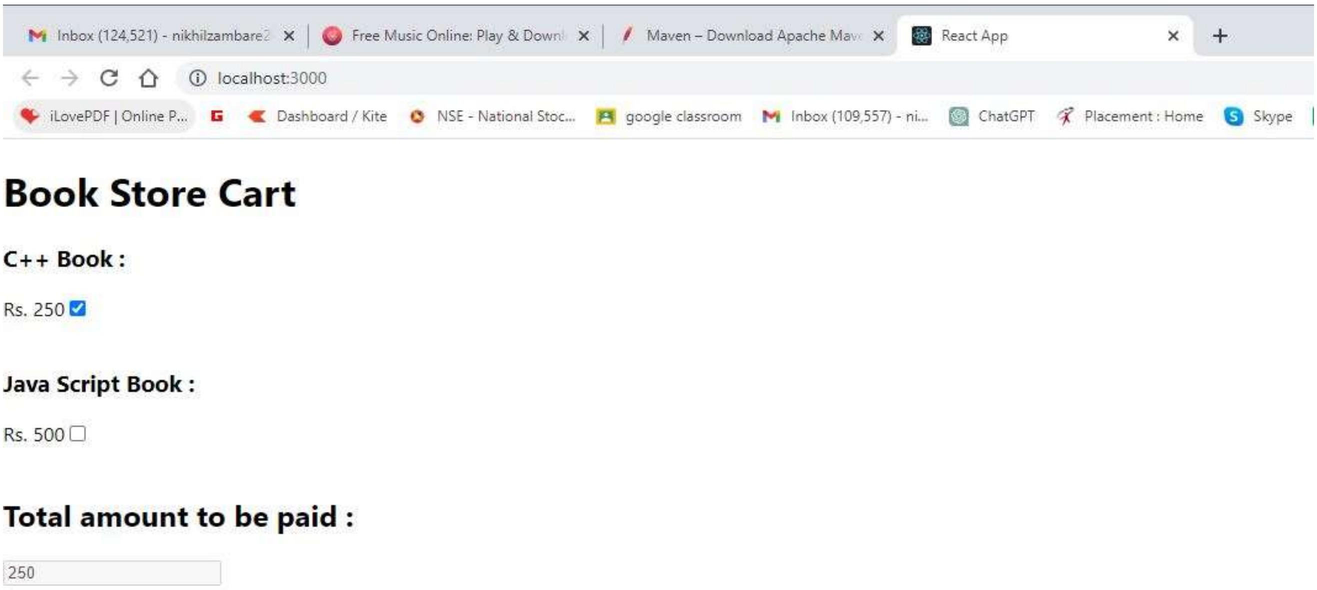
// Starting the app on localhost (npm start)



```
import React from 'react';

class App extends React.Component {
  constructor(props) {
    super(props);
    this.state = {
      total: 0,
      "c": 250,
      "Js": 500,
    };
    this.handleInputChange = this.handleInputChange.bind(this);
  }

  handleInputChange(event) {
    if (event.target.checked) {
      this.setState({ total: (this.state.total + parseInt(event.target.value)) })
    }
    else {
      this.setState({
        total: this.state.total - parseInt(event.target.value)
```

```
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo> cd reactapp
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo\reactapp> npm start

> myapp@0.1.0 start
Compiled successfully!

You can now view myapp in the browser.

Compiled successfully!

You can now view myapp in the browser.
```

// Running React Application on web browser (localhost:3000)



Book Store Cart

C++ Book :

Rs. 250 ☑

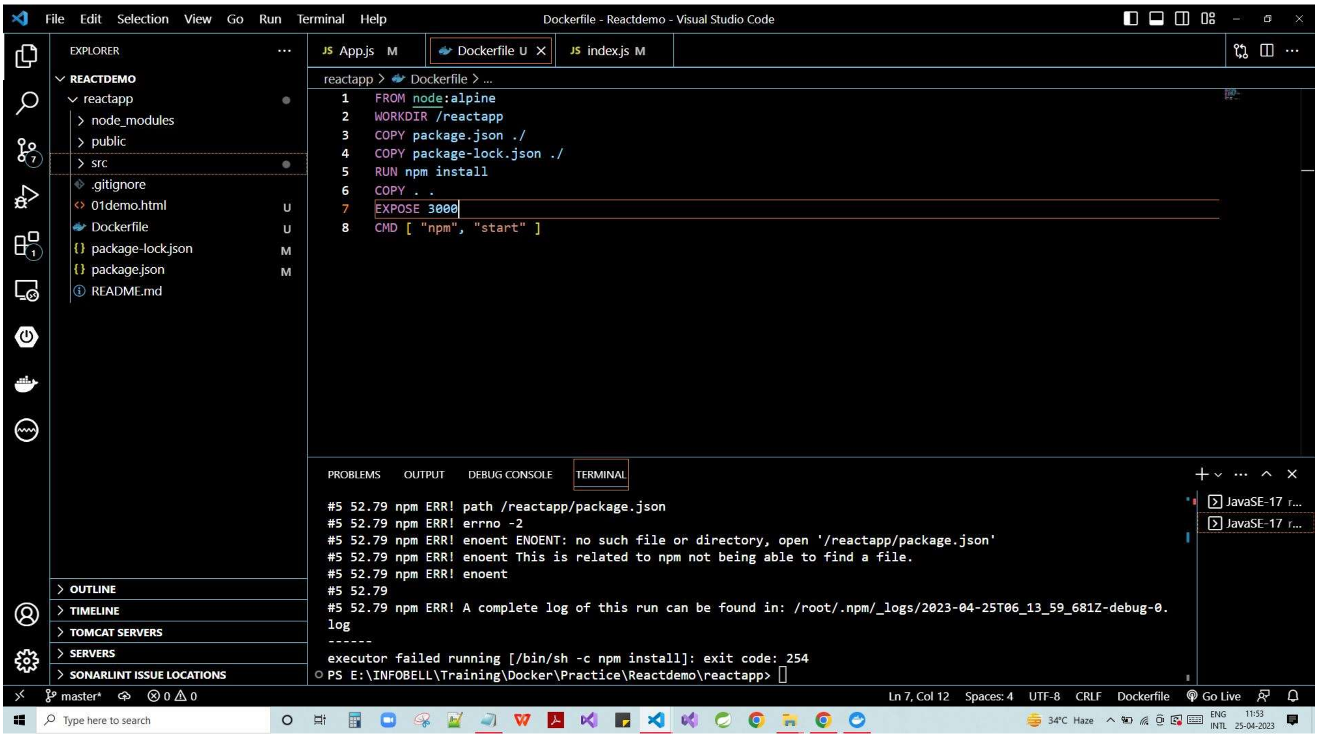
Java Script Book :

Rs. 500 ☐

Total amount to be paid :

250

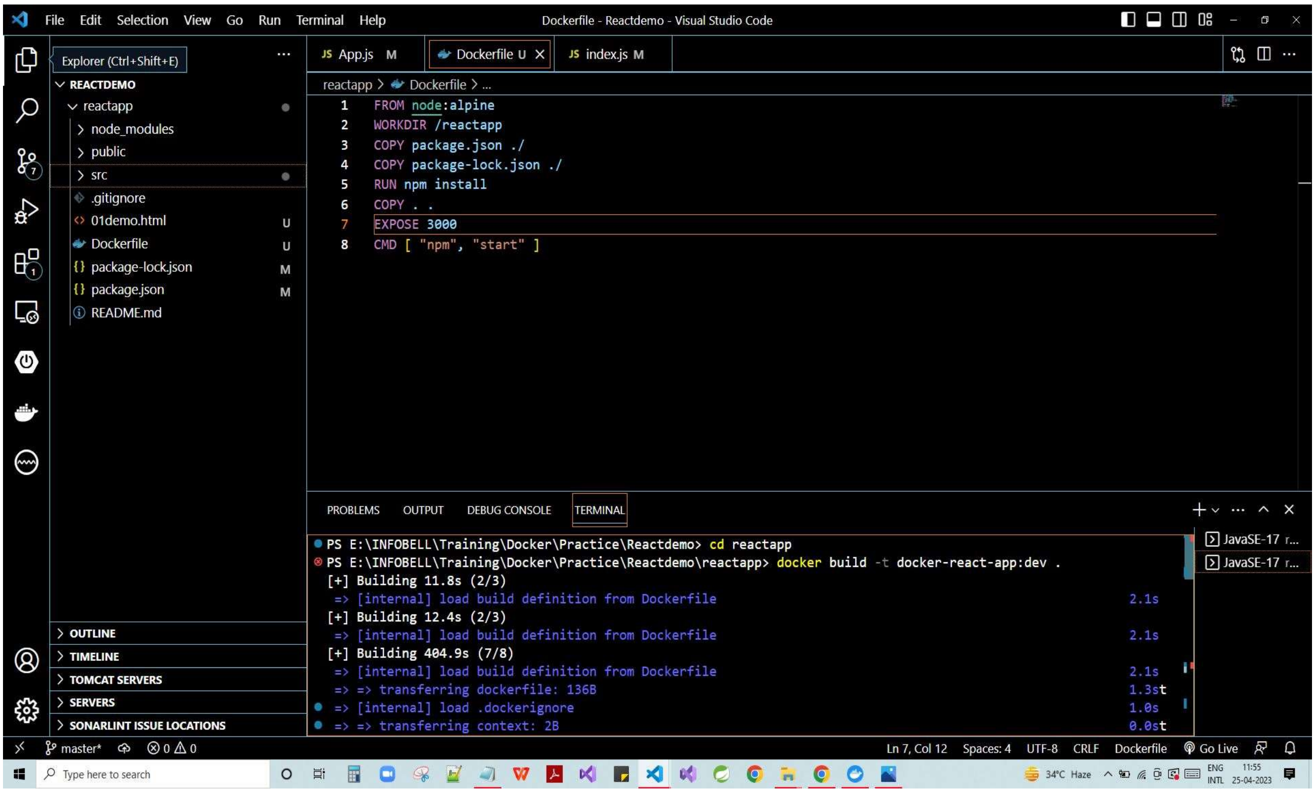
// Docker file created in reactapp directory



```
FROM node:alpine
WORKDIR /reactapp
COPY package.json ./
COPY package-lock.json ./
RUN npm install
COPY . .
EXPOSE 3000
CMD [ "npm", "start" ]
```

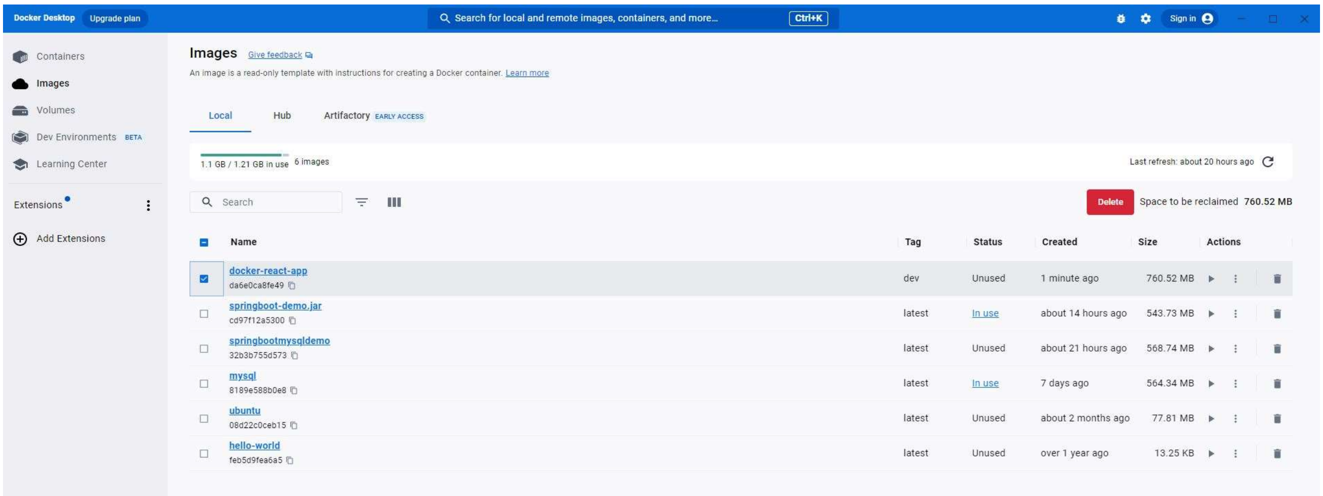
```
#5 52.79 npm ERR! path /reactapp/package.json
#5 52.79 npm ERR! errno -2
#5 52.79 npm ERR! enoent ENOENT: no such file or directory, open '/reactapp/package.json'
#5 52.79 npm ERR! enoent This is related to npm not being able to find a file.
#5 52.79 npm ERR! enoent
#5 52.79
#5 52.79 npm ERR! A complete log of this run can be found in: /root/.npm/_logs/2023-04-25T06_13_59_681Z-debug-0.
log
------
executor failed running [/bin/sh -c npm install]: exit code: 254
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo\reactapp>
```

// Building an image and Container docker-react-app



```
FROM node:alpine
WORKDIR /reactapp
COPY package.json ./
COPY package-lock.json ./
RUN npm install
COPY . .
EXPOSE 3000
CMD [ "npm", "start" ]
```

```
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo> cd reactapp
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo\reactapp> docker build -t docker-react-app:dev .
[+] Building 11.8s (2/3)
 => [internal] load build definition from Dockerfile                              2.1s
[+] Building 12.4s (2/3)
 => [internal] load build definition from Dockerfile                              2.1s
[+] Building 404.9s (7/8)
 => [internal] load build definition from Dockerfile                              2.1s
 => => transferring dockerfile: 136B                                              1.3st
 => [internal] load .dockerignore                                                 1.0s
 => => transferring context: 2B                                                   0.0st
```



Images

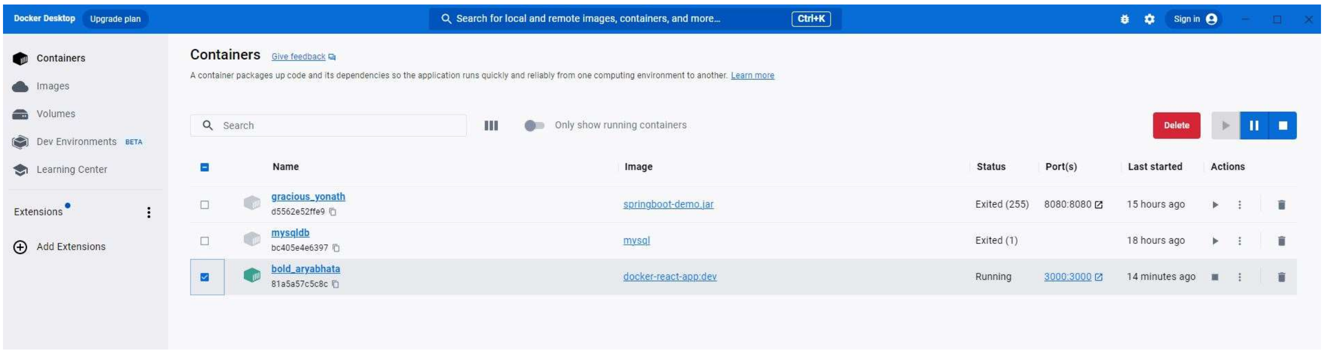
An image is a read-only template with instructions for creating a Docker container. Learn more

1.1 GB / 1.21 GB in use 6 images

Last refresh: about 20 hours ago

Space to be reclaimed 760.52 MB

	Name	Tag	Status	Created	Size	Actions
☑	docker-react-app da6e0ca8fe49	dev	Unused	1 minute ago	760.52 MB	
□	springboot-demo.jar cd97f12a5300	latest	In use	about 14 hours ago	543.73 MB	
□	springbootmysqldemo 32b3b755d573	latest	Unused	about 21 hours ago	568.74 MB	
□	mysql 8189e588b0e8	latest	In use	7 days ago	564.34 MB	
□	ubuntu 08d22c0ceb15	latest	Unused	about 2 months ago	77.81 MB	
□	hello-world feb5d9fea6a5	latest	Unused	over 1 year ago	13.25 KB	

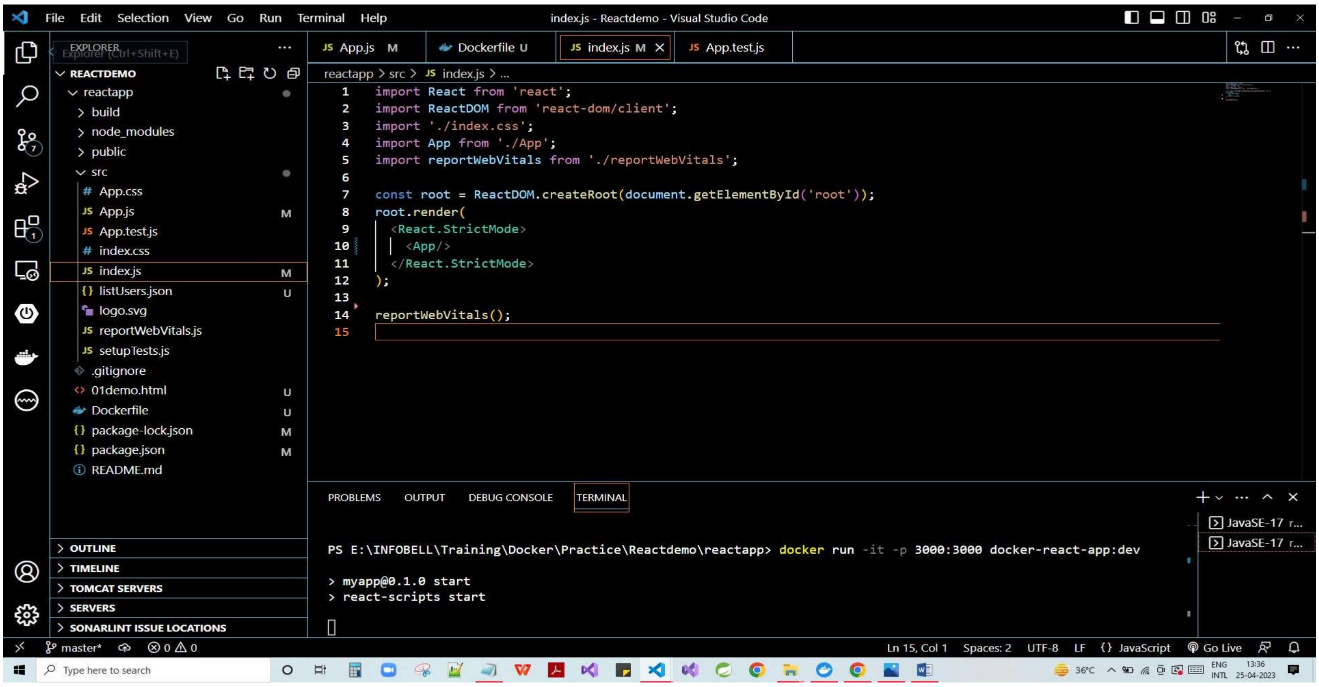


Containers

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

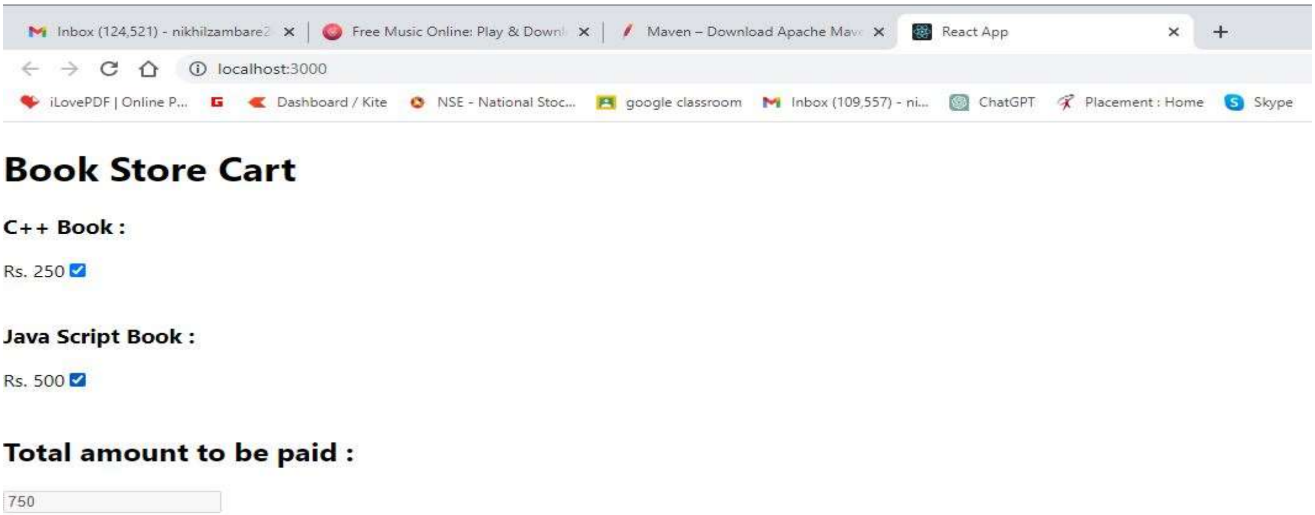
	Name	Image	Status	Port(s)	Last started	Actions
□	gracious_yonath d5562e52ffe9	springboot-demo.jar	Exited (255)	8080:8080	15 hours ago	
□	mysqldb bc405e4e6397	mysql	Exited (1)		18 hours ago	
☑	bold_aryabhata 81a5a57c5c8c	docker-react-app:dev	Running	3000:3000	14 minutes ago	

// Running the Container docker-react-app:dev



```
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App/>
  </React.StrictMode>
);

reportWebVitals();

```

```
PS E:\INFOBELL\Training\Docker\Practice\Reactdemo\reactapp> docker run -it -p 3000:3000 docker-react-app:dev

> myapp@0.1.0 start
> react-scripts start

```



Book Store Cart

C++ Book :

Rs. 250 ☑

Java Script Book :

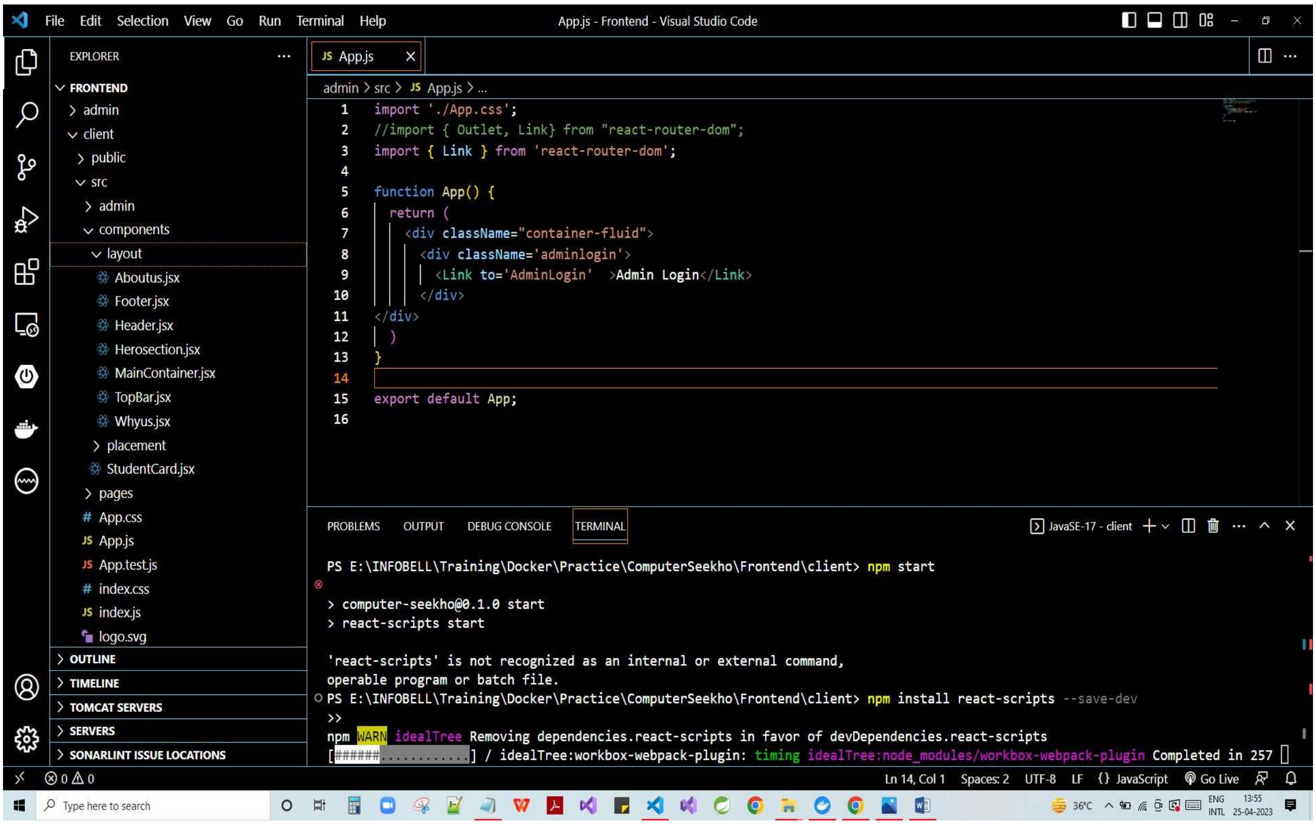
Rs. 500 ☑

Total amount to be paid :

750

- Docker with React Project

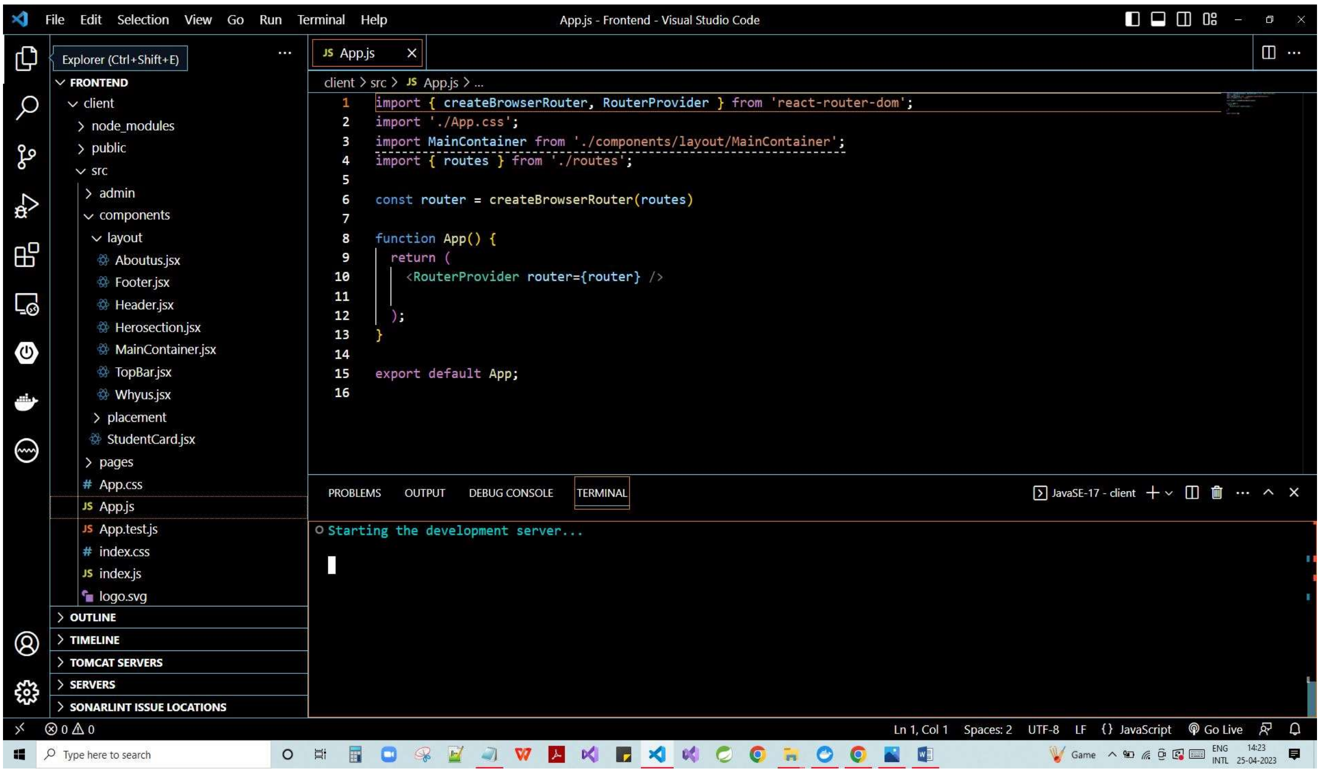
// Installed react-scripts required to start react-app



```
import './App.css';
//import { Outlet, Link} from "react-router-dom";
import { Link } from 'react-router-dom';

function App() {
  return (
    <div className="container-fluid">
      <div className='adminlogin'>
        <Link to='AdminLogin'  >Admin Login</Link>
      </div>
    </div>
  )
}

export default App;
```

```
PS E:\INFOBELL\Training\Docker\Practice\ComputerSeekho\Frontend\client> npm start

> computer-seekho@0.1.0 start
> react-scripts start

'react-scripts' is not recognized as an internal or external command,
operable program or batch file.
PS E:\INFOBELL\Training\Docker\Practice\ComputerSeekho\Frontend\client> npm install react-scripts --save-dev
>>
npm WARN idealTree Removing dependencies.react-scripts in favor of devDependencies.react-scripts
[######...........] / idealTree:workbox-webpack-plugin: timing idealTree:node_modules/workbox-webpack-plugin Completed in 257
```

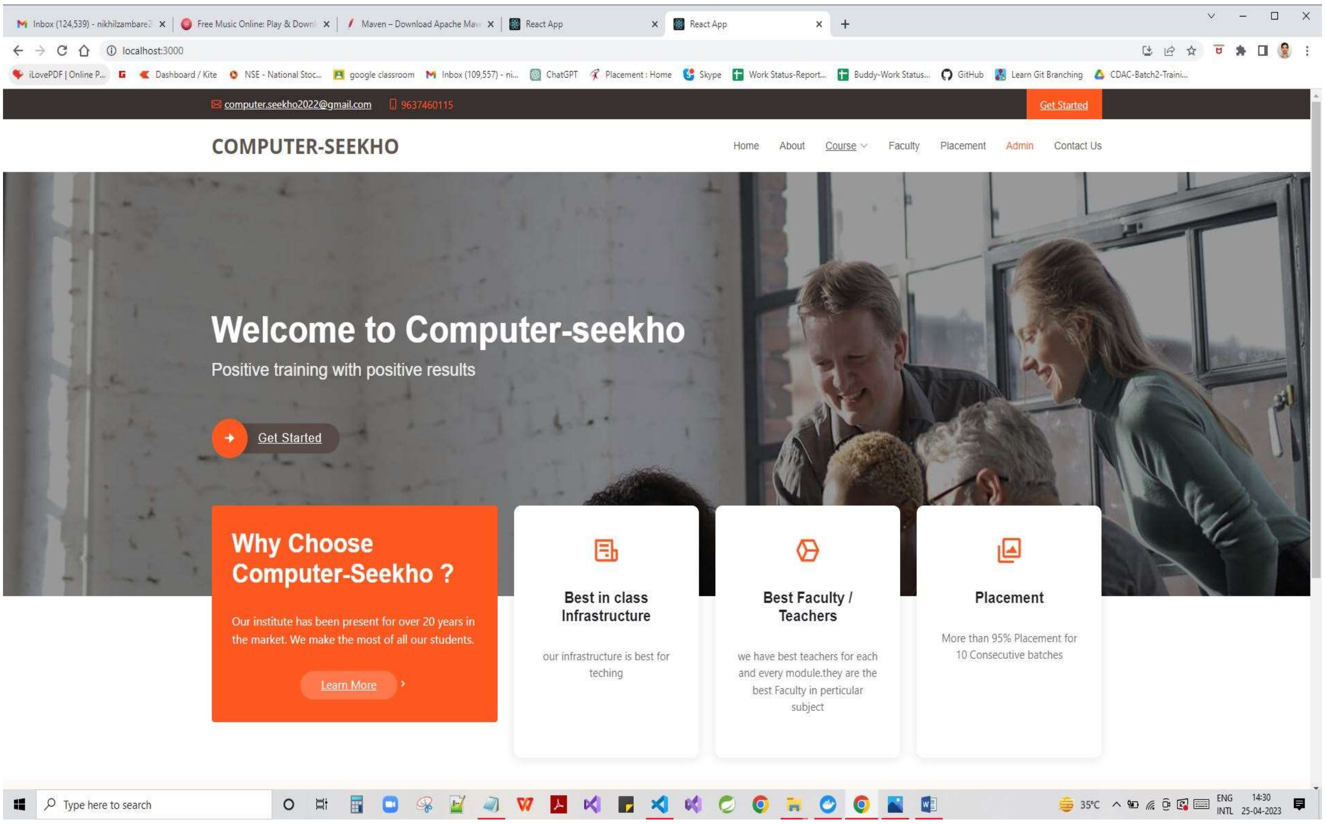
// Started the developing server using npm start



```
import { createBrowserRouter, RouterProvider } from 'react-router-dom';
import './App.css';
import MainContainer from './components/layout/MainContainer';
import { routes } from './routes';

const router = createBrowserRouter(routes)

function App() {
  return (
    <RouterProvider router={router} />

  );
}

export default App;
```

```
Starting the development server...
```

// Running the React frontend project (Computer seekho Institute)



computer.seekho2022@gmail.com 9637460115

Welcome to Computer-seekho

Positive training with positive results

Why Choose Computer-Seekho ?

Our institute has been present for over 20 years in the market. We make the most of all our students.

Best in class Infrastructure

our infrastructure is best for teching

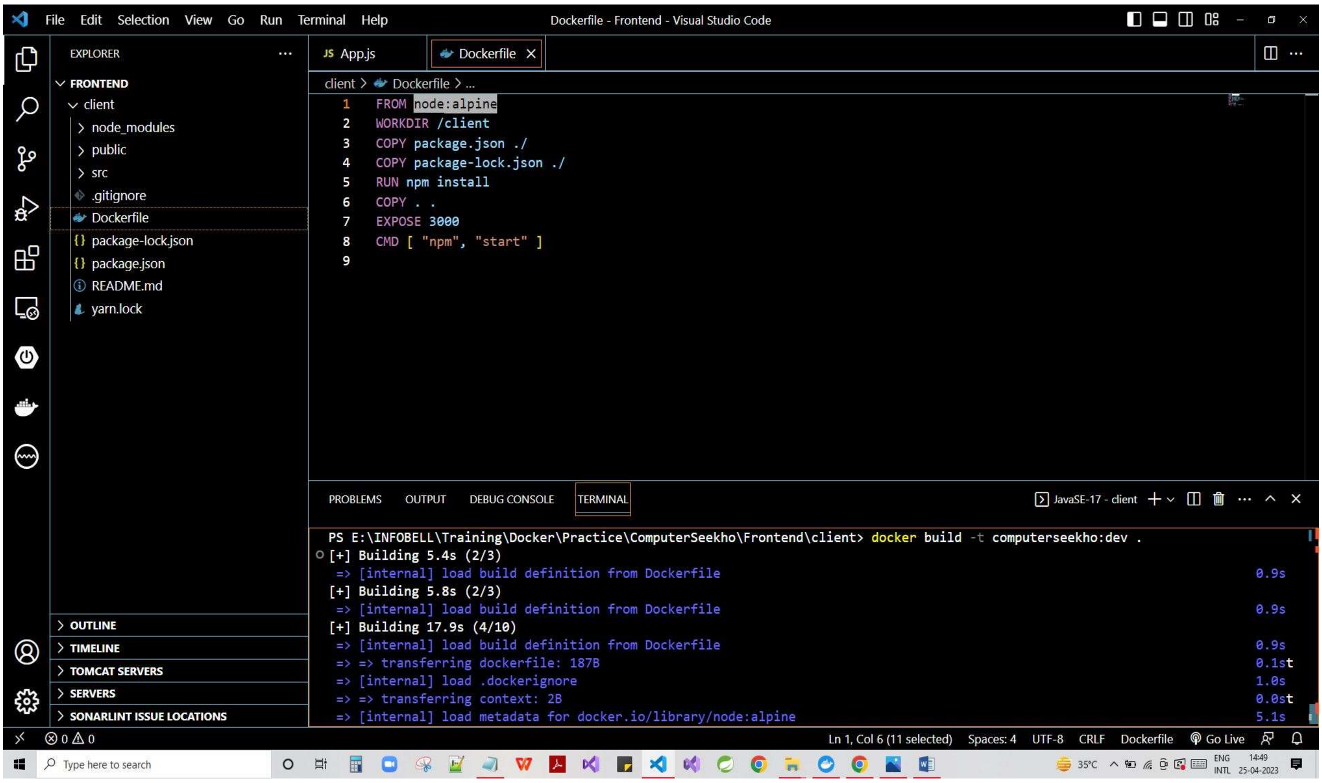
Best Faculty / Teachers

we have best teachers for each and every module.they are the best Faculty in perticular subject

Placement

More than 95% Placement for 10 Consecutive batches

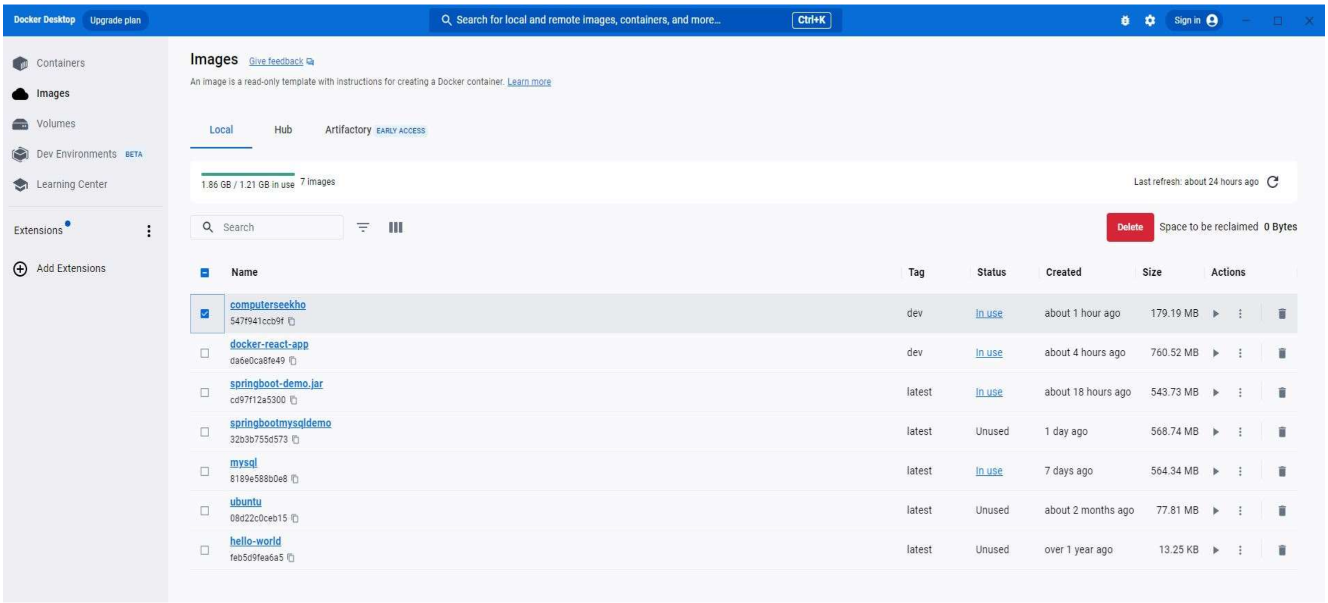
// Created Docker file & Building an image computerseekho:dev(tag)



```dockerfile
FROM node:alpine
WORKDIR /client
COPY package.json ./
COPY package-lock.json ./
RUN npm install
COPY . .
EXPOSE 3000
CMD [ "npm", "start" ]
```

```
PS E:\INFOBELL\Training\Docker\Practice\ComputerSeekho\Frontend\client> docker build -t computerseekho:dev .
[+] Building 5.4s (2/3)
 => [internal] load build definition from Dockerfile                                          0.9s
[+] Building 5.8s (2/3)
 => [internal] load build definition from Dockerfile                                          0.9s
[+] Building 17.9s (4/10)
 => [internal] load build definition from Dockerfile                                          0.9s
 => => transferring dockerfile: 187B                                                          0.1st
 => [internal] load .dockerignore                                                             1.0s
 => => transferring context: 2B                                                               0.0st
 => [internal] load metadata for docker.io/library/node:alpine                                5.1s
```

// Docker image &created on Docker desktop (computerseekho:dev)



Images

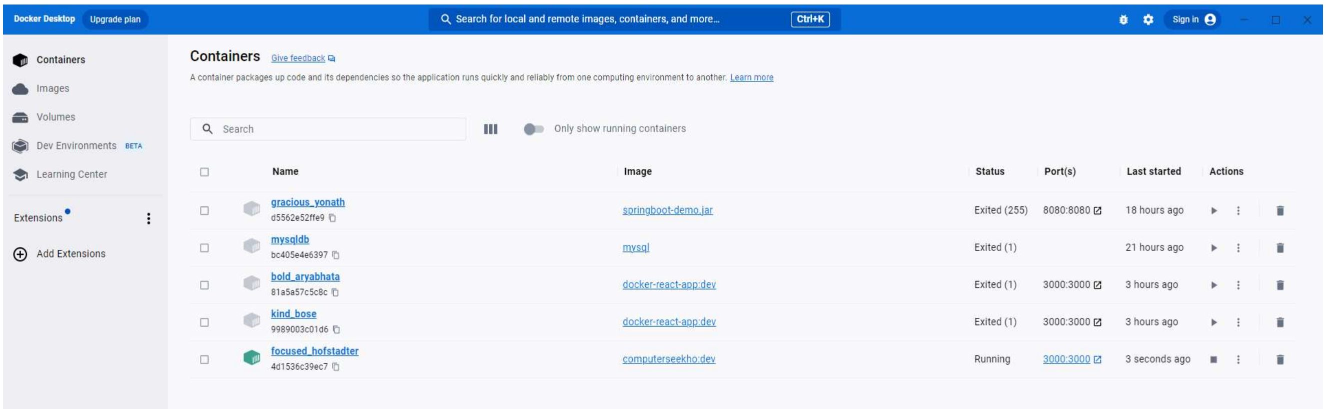
An image is a read-only template with instructions for creating a Docker container. Learn more

1.86 GB / 1.21 GB in use 7 images

Last refresh: about 24 hours ago

Space to be reclaimed 0 Bytes

	Name	Tag	Status	Created	Size	Actions
☑	computerseekho 547f941ccb9f	dev	In use	about 1 hour ago	179.19 MB	▶ ⋮
□	docker-react-app da6e0ca8fe49	dev	In use	about 4 hours ago	760.52 MB	▶ ⋮
□	springboot-demo.jar cd97f12a5300	latest	In use	about 18 hours ago	543.73 MB	▶ ⋮
□	springbootmysqldemo 32b3b755d573	latest	Unused	1 day ago	568.74 MB	▶ ⋮
□	mysql 8189e588b0e8	latest	In use	7 days ago	564.34 MB	▶ ⋮
□	ubuntu 08d22c0ceb15	latest	Unused	about 2 months ago	77.81 MB	▶ ⋮
□	hello-world feb5d9fea6a5	latest	Unused	over 1 year ago	13.25 KB	▶ ⋮



Containers

Give feedback

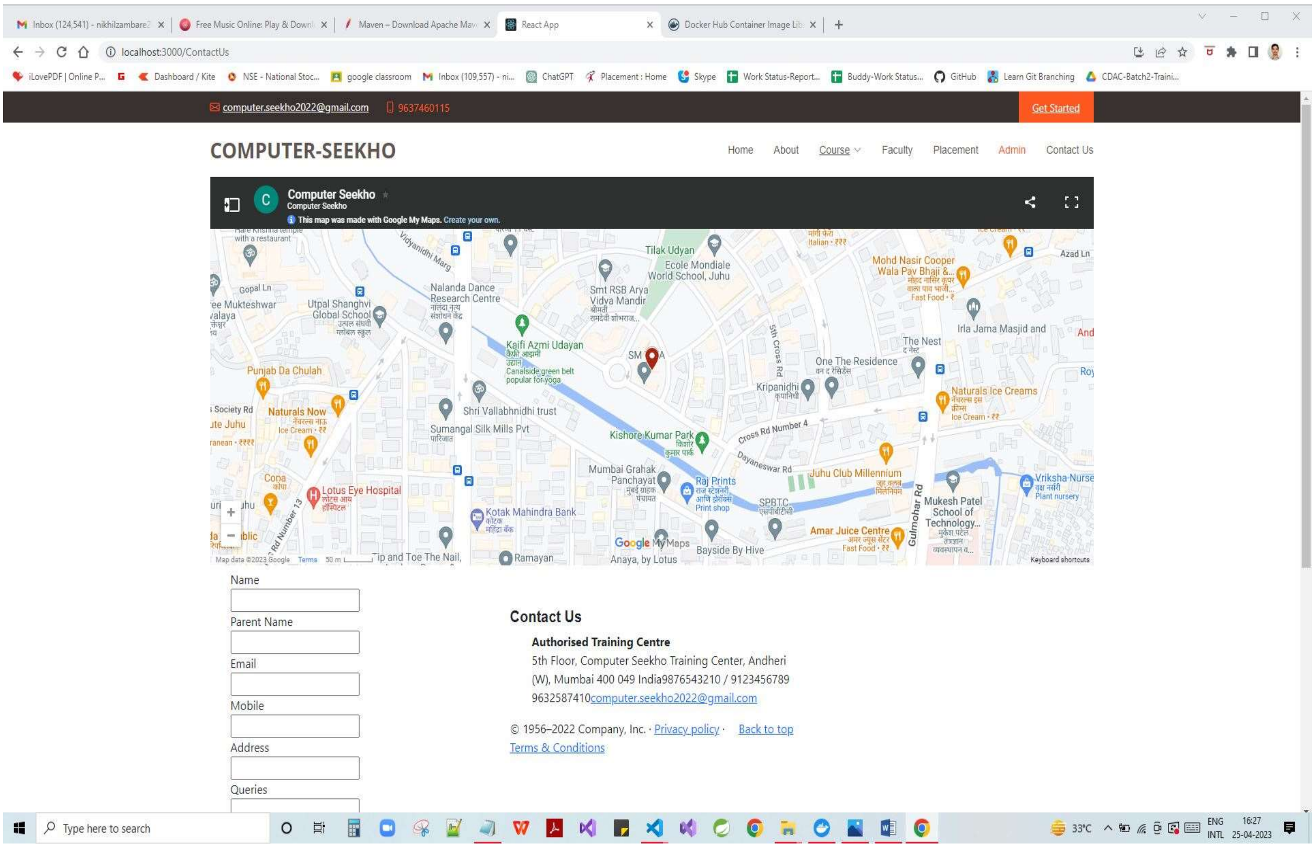
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

Search

Only show running containers

□	Name	Image	Status	Port(s)	Last started	Actions
□	gracious_yonath d5562e52ffe9	springboot-demo.jar	Exited (255)	8080:8080	18 hours ago	
□	mysqldb bc405e4e6397	mysql	Exited (1)		21 hours ago	
□	bold_aryabhata 81a5a57c5c8c	docker-react-app:dev	Exited (1)	3000:3000	3 hours ago	
□	kind_bose 9989003c01d6	docker-react-app:dev	Exited (1)	3000:3000	3 hours ago	
□	focused_hofstadter 4d1536c39ec7	computerseekho:dev	Running	3000:3000	3 seconds ago	

// Running React Application from docker



computer.seekho2022@gmail.com 9637460115 Get Started

COMPUTER-SEEKHO

Home About Course Faculty Placement Admin Contact Us

Name

Parent Name

Email

Mobile

Address

Queries

Contact Us

Authorised Training Centre

5th Floor, Computer Seekho Training Center, Andheri (W), Mumbai 400 049 India9876543210 / 9123456789 9632587410computer.seekho2022@gmail.com

© 1956–2022 Company, Inc. · Privacy policy · Back to top

Terms & Conditions