

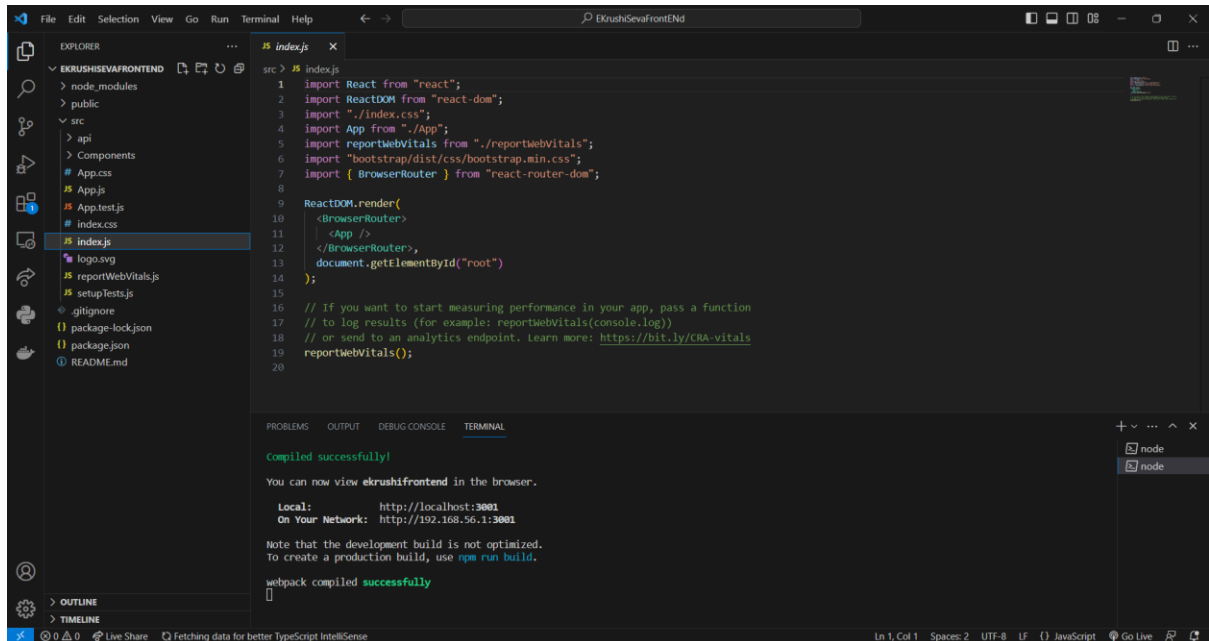
Name : Madhavi Suratkar

Topic : Docker Project Deployment

Date : 09-05-2023

React Application

1. Created App



```
1 import React from "react";
2 import ReactDOM from "react-dom";
3 import "../index.css";
4 import App from "./App";
5 import reportWebVitals from "./reportWebVitals";
6 import "bootstrap/dist/css/bootstrap.min.css";
7 import { BrowserRouter } from "react-router-dom";
8
9 ReactDOM.render(
10   <BrowserRouter>
11     <App />
12   </BrowserRouter>,
13   document.getElementById("root")
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
```

Compiled successfully!

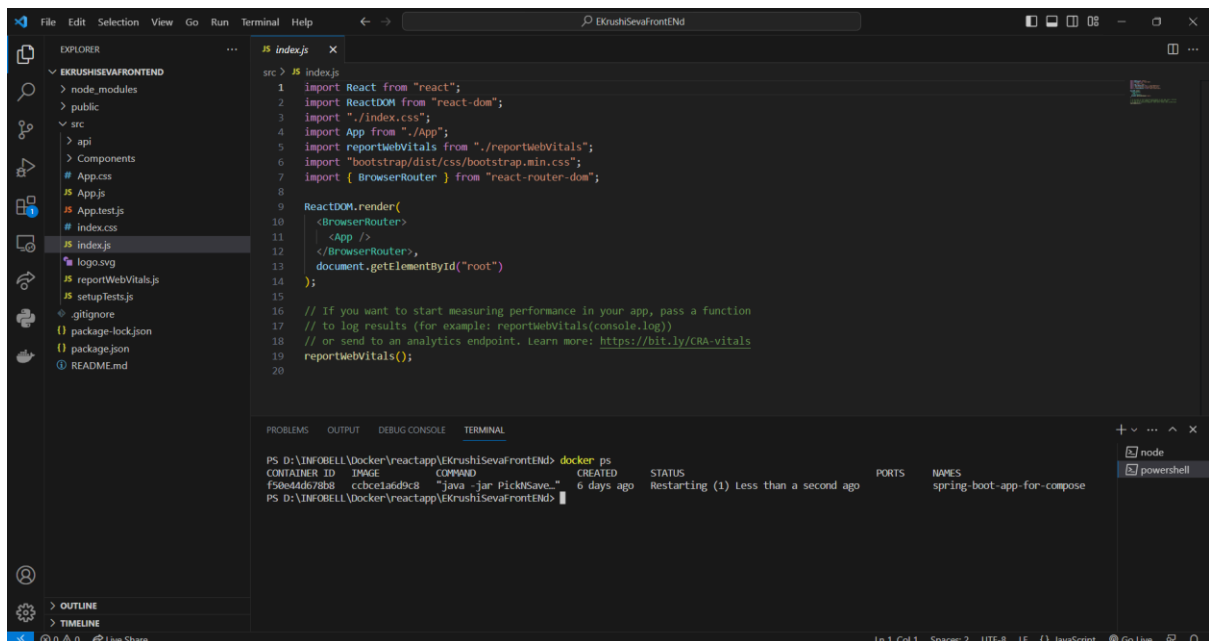
You can now view **ekrushifrontend** in the browser.

Local: <http://localhost:3001>
On Your Network: <http://192.168.56.1:3001>

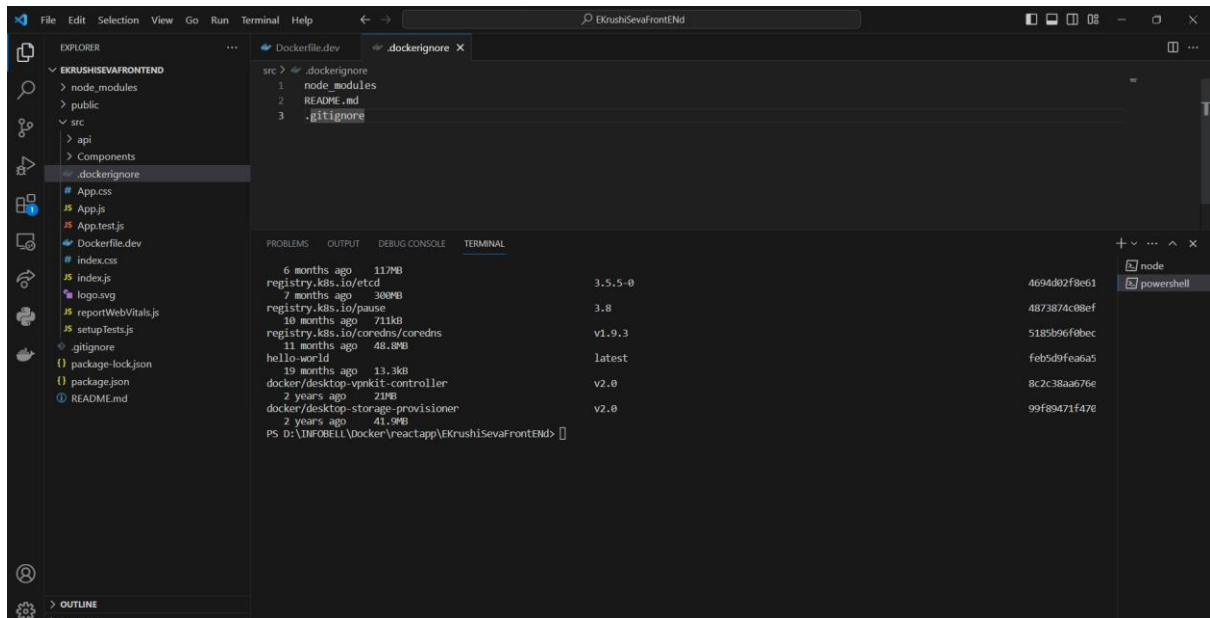
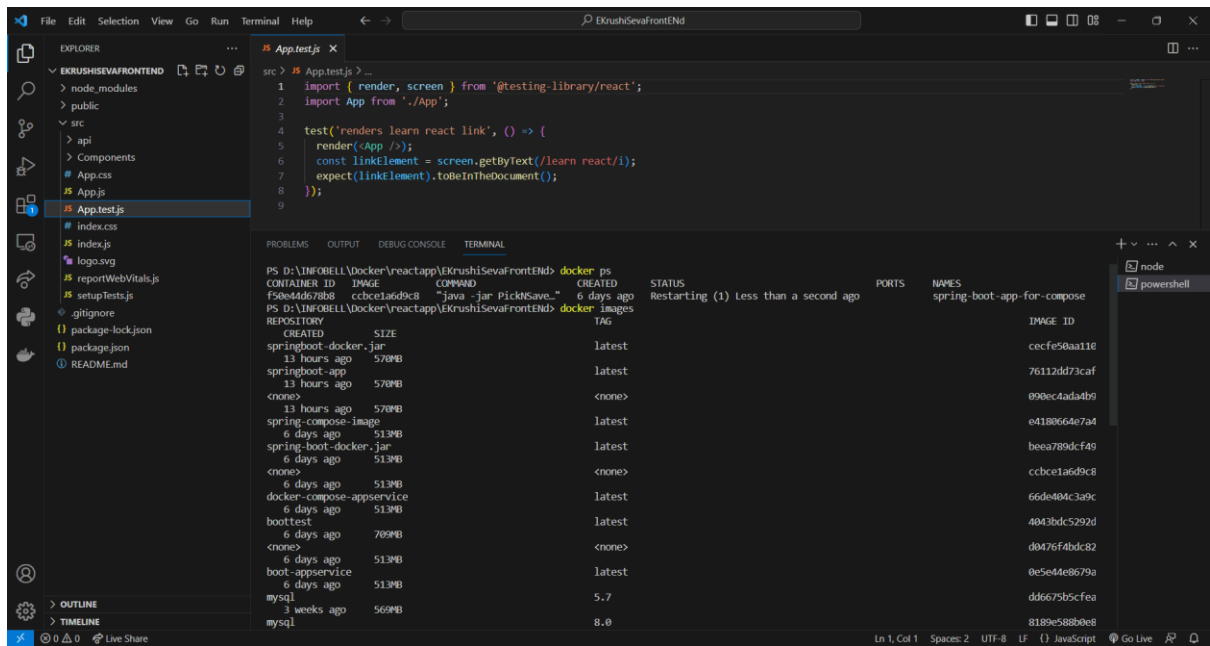
Note that the development build is not optimized.
To create a production build, use `npm run build`.

webpack compiled successfully

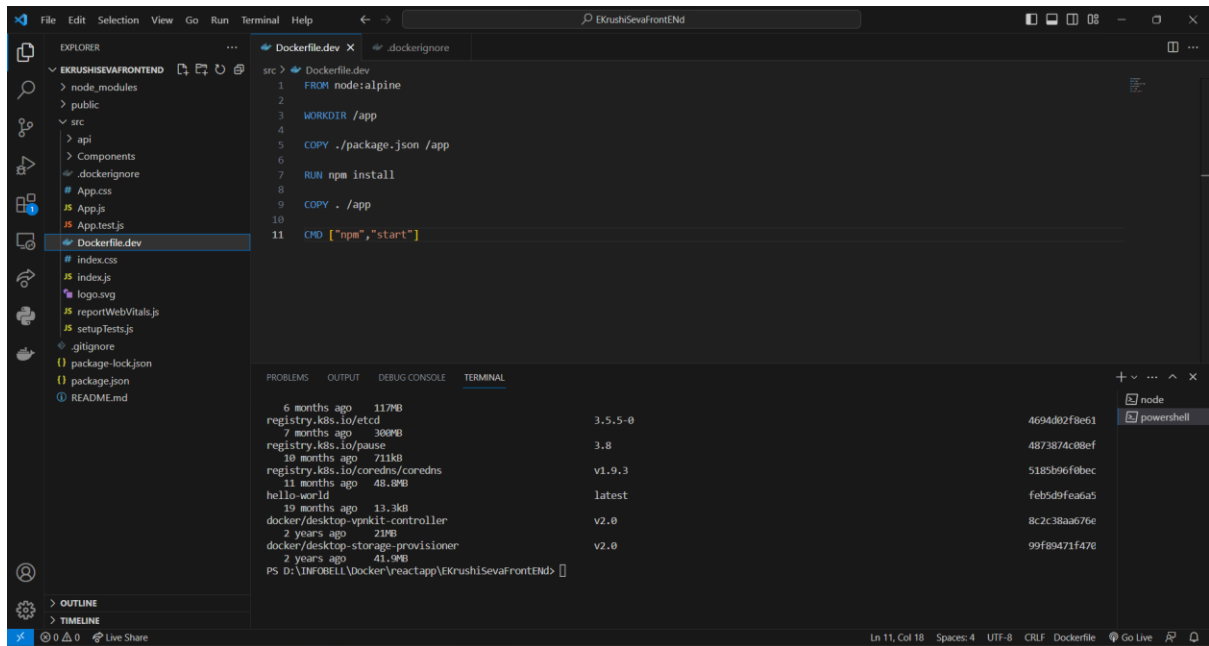
2. Checking running containers on a Docker host



```
PS D:\INFOBELL\docker\reactapp\ekrushifrontend> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS      PORTS      NAMES
f90e4d67808   cbrca1d9b8  "java -jar PickMSave..." 6 days ago  Restarting (1) Less than a second ago  PORTS      NAMES
spring-boot-app-for-compose
```



3. Created Dockerfile



The screenshot shows the Visual Studio Code editor with a project named 'EKrushSevaFrontEnd'. The Explorer sidebar on the left shows the file structure, including 'Dockerfile.dev'. The main editor displays the content of 'Dockerfile.dev'.

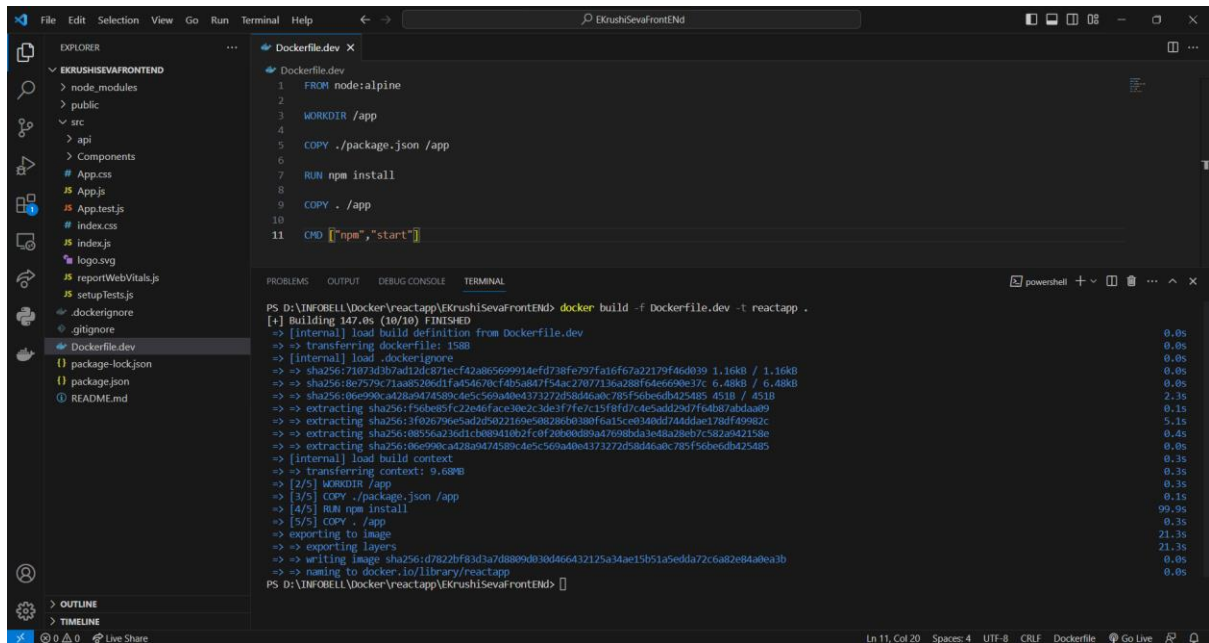
```
1 FROM node:alpine
2
3 WORKDIR /app
4
5 COPY ./package.json /app
6
7 RUN npm install
8
9 COPY . /app
10
11 CMD ["npm", "start"]
```

Below the editor, the TERMINAL tab is active, showing a list of Docker images and their details:

Image	Size	Version	Digest
registry.k8s.io/etcd	117MB	3.5.5-0	4694d02f8e61
registry.k8s.io/pause	300MB	3.8	4873874c08ef
registry.k8s.io/coredns/coredns	711kB	v1.9.3	5185b96f0bec
hello-world	48.8MB	latest	feb5d9fea6a5
docker/desktop-vpnkit-controller	13.3kB	v2.0	8c2c38aa676e
docker/desktop-storage-provisioner	21MB	v2.0	99f89471f47e

The terminal also shows the command prompt: `PS D:\INFOBELL\docker\reactapp\EKrushSevaFrontEnd>`

4. Created Docker Image



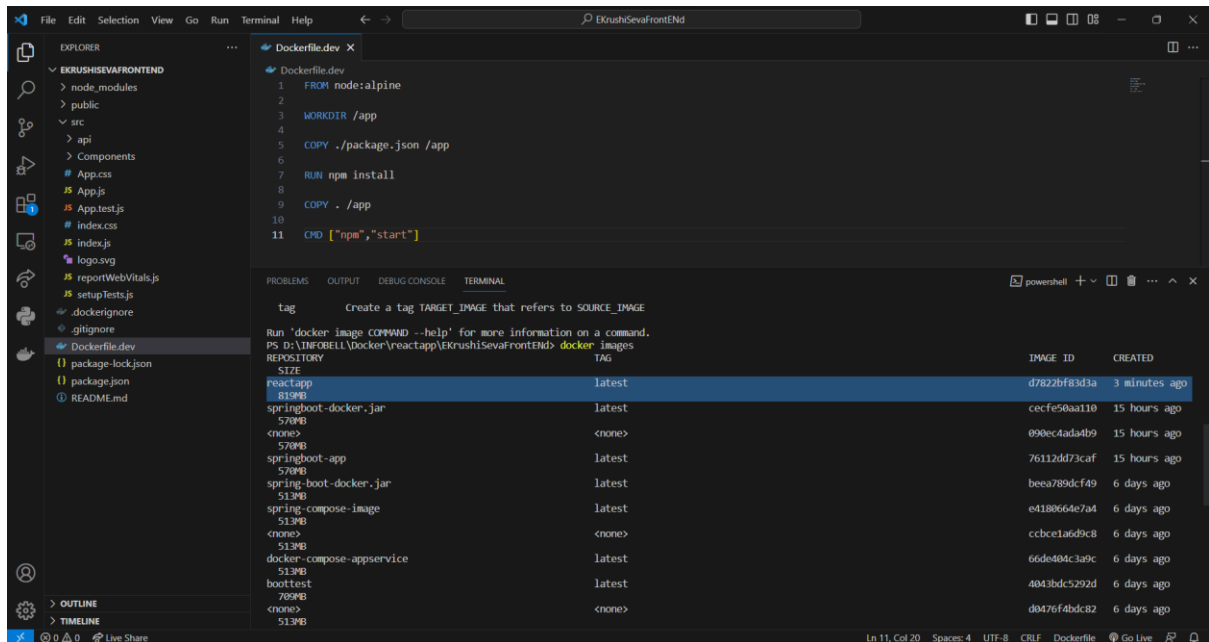
The screenshot shows the Visual Studio Code editor with the same project. The Explorer sidebar shows the file structure. The main editor displays the content of 'Dockerfile.dev'.

```
1 FROM node:alpine
2
3 WORKDIR /app
4
5 COPY ./package.json /app
6
7 RUN npm install
8
9 COPY . /app
10
11 CMD ["npm", "start"]
```

Below the editor, the TERMINAL tab is active, showing the output of the `docker build` command:

```
PS D:\INFOBELL\docker\reactapp\EKrushSevaFrontEnd> docker build -f Dockerfile.dev -t reactapp .
[+] Building 147.0s (10/10) FINISHED
=> [internal] load build definition from Dockerfile.dev
=> => transferring dockerfile: 158B
=> [internal] load .dockerignore
=> => sha256:7107d3137a0121c871ecf42a865699914efd730fe797fa16f7a22179f464039 1.16kB / 1.16kB
=> => sha256:8e7579c71a85286d1fa54670cf4b5a847f5aac27077136a288f6e6690e37c 6.48kB / 6.48kB
=> => sha256:06e990ca28a9474589c4e5c569a40e4373272d58d46a0c785f56bedb425485 451B / 451B
=> => extracting sha256:f56be85fc22e46face30e2c3de3f7fe7c15f8fd7c4e5add29d7f64b87abadaa09
=> => extracting sha256:3f02b796e5ad205022169e50628606380f6a15ce03406d74ad4ae178d49962c
=> => extracting sha256:08356a226d1c809410e2f0f208000d934769bda3e48a29d7c302a942158e
=> => extracting sha256:06e990ca28a9474589c4e5c569a40e4373272d58d46a0c785f56bedb425485
=> [internal] load build context
=> => transferring context: 9.68MB
=> [2/5] WORKDIR /app
=> [3/5] COPY ./package.json /app
=> [4/5] RUN npm install
=> [5/5] COPY . /app
=> exporting to image
=> writing image sha256:d7822bf83d3a7d8809d030d466432125a34ae15b51a5edda72c6a82e84a0ea3b
=> naming to docker.io/library/reactapp
PS D:\INFOBELL\docker\reactapp\EKrushSevaFrontEnd>
```

5. Checking Docker images

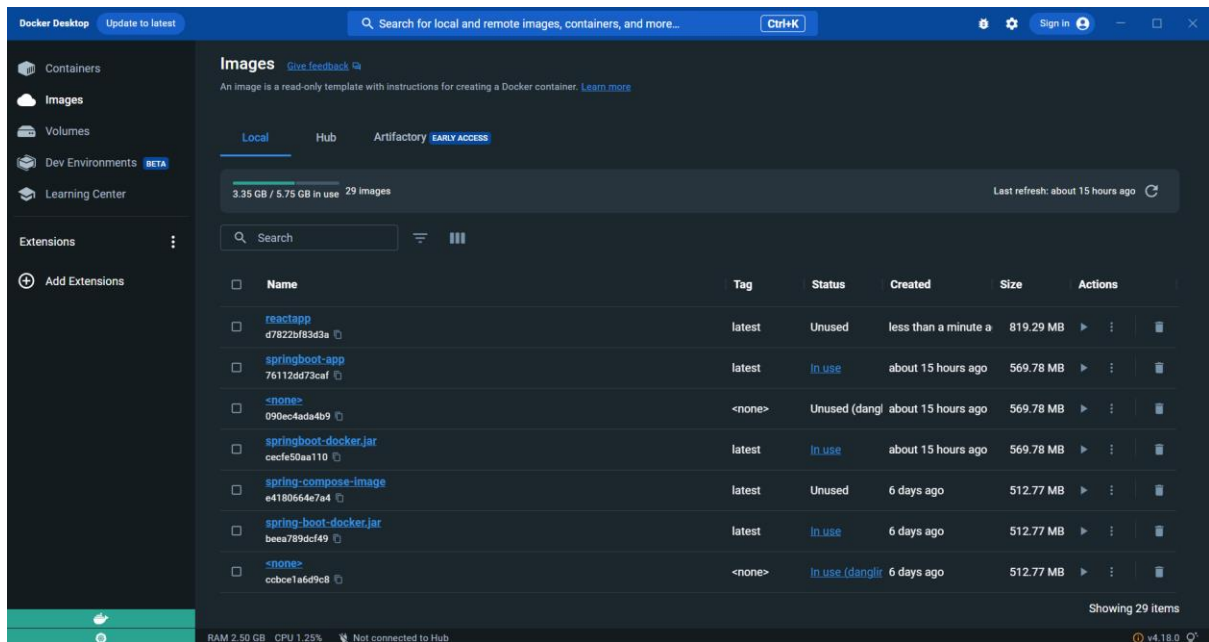


The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile contains the following commands:

```
1 FROM node:alpine
2
3 WORKDIR /app
4
5 COPY ./package.json /app
6
7 RUN npm install
8
9 COPY . /app
10
11 CMD ["npm", "start"]
```

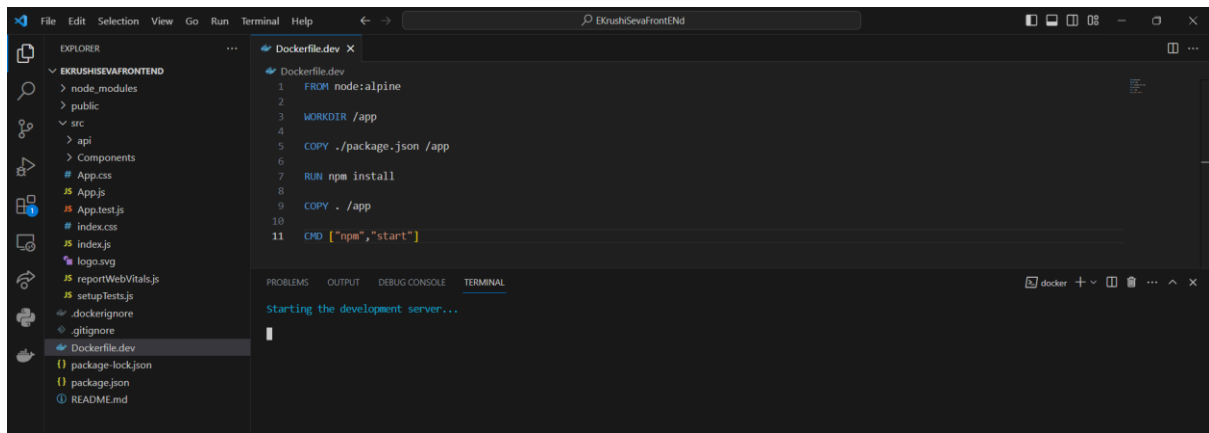
The terminal output shows the command `docker images` being executed, displaying a list of Docker images:

REPOSITORY	TAG	IMAGE ID	CREATED
reactapp	latest	d7822bf83d3a	3 minutes ago
springboot-docker.jar	latest	cecf50aa110	15 hours ago
<none>	<none>	090ec4ada4b9	15 hours ago
springboot-app	latest	76112dd73caf	15 hours ago
spring-boot-docker.jar	latest	beea789dcf49	6 days ago
spring-compose-image	latest	e4180664e7a4	6 days ago
<none>	<none>	ccbce1a6d9c8	6 days ago
docker-compose-appservice	latest	66de404c3a9c	6 days ago
boottest	latest	4043bdc5292d	6 days ago
<none>	<none>	d0476f4bdc82	6 days ago

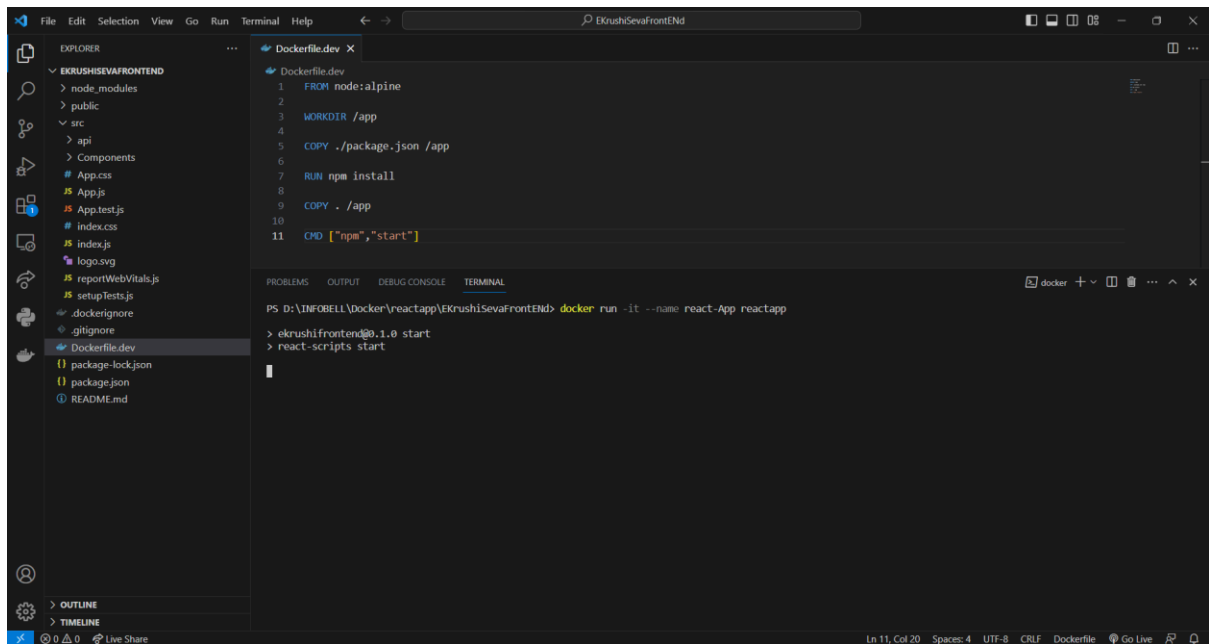


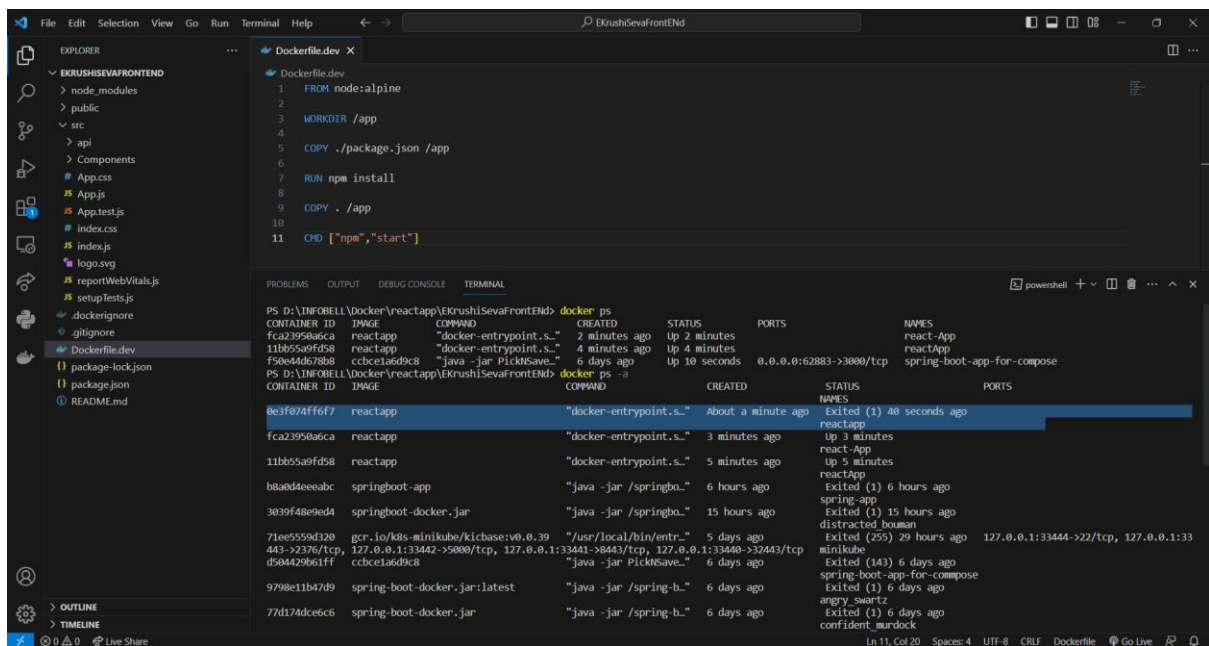
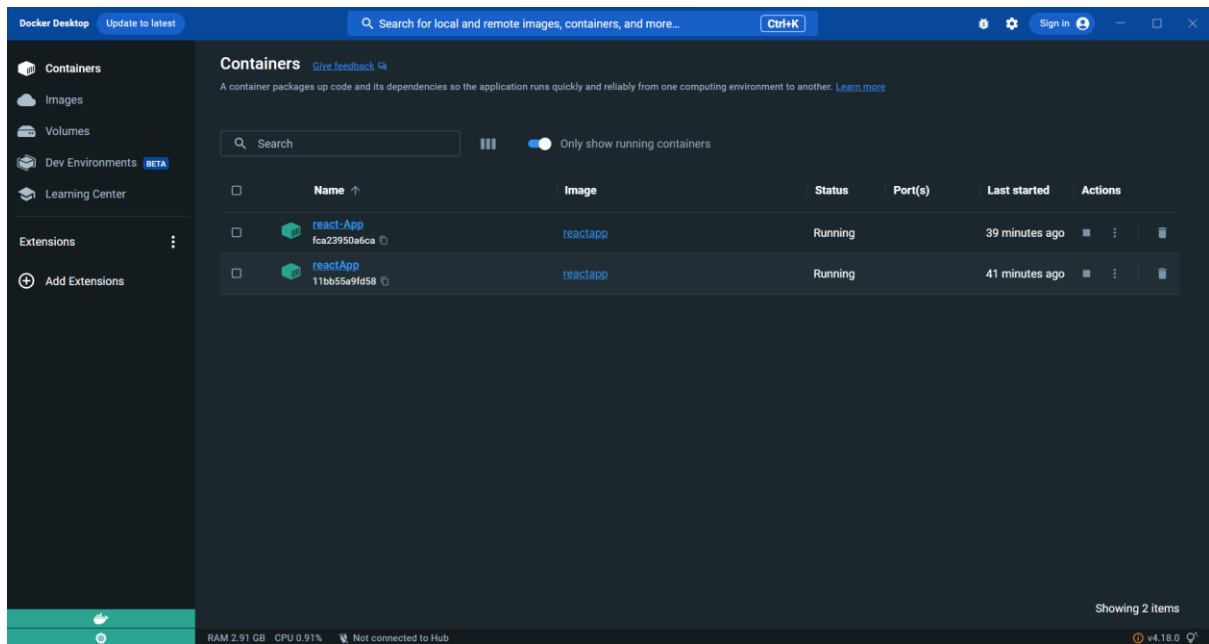
The screenshot shows the Docker Desktop interface with the 'Images' tab selected. The interface displays a list of Docker images with the following columns: Name, Tag, Status, Created, Size, and Actions. The list shows 29 images, with the first few being:

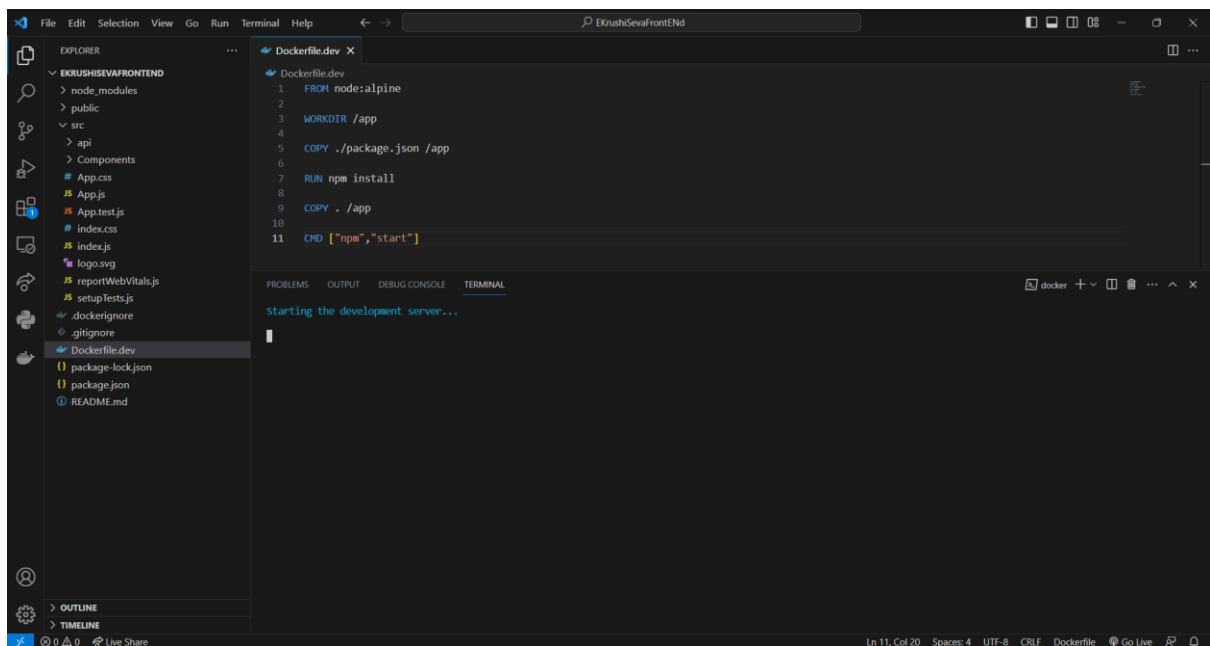
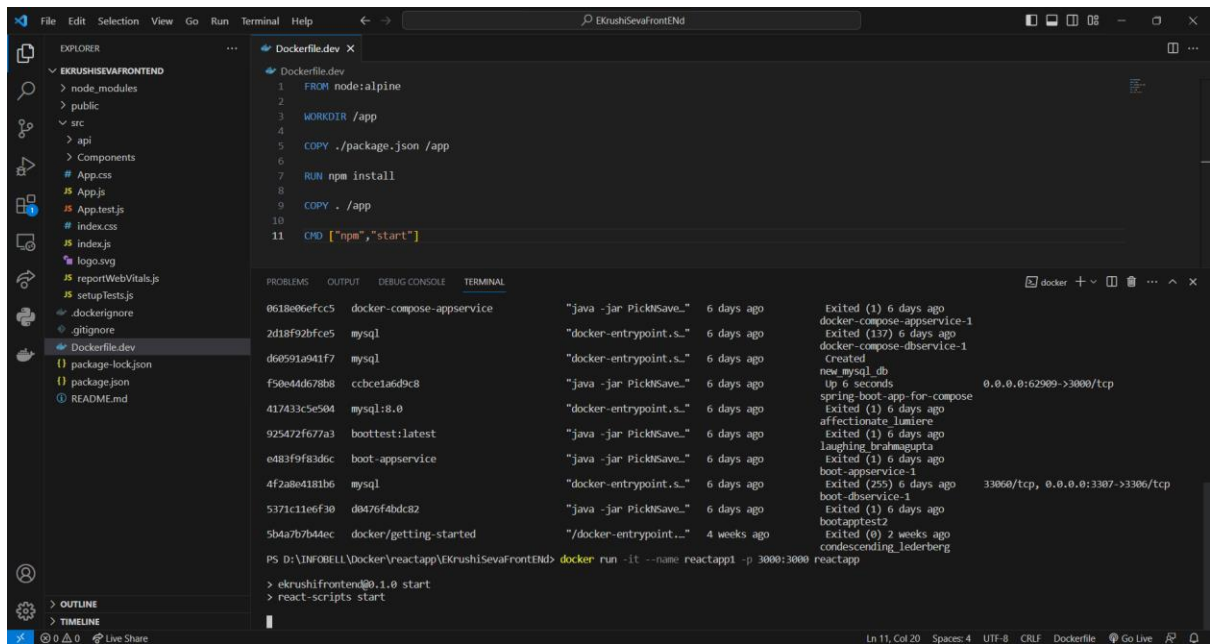
Name	Tag	Status	Created	Size	Actions
reactapp	latest	Unused	less than a minute a	819.29 MB	
springboot-app	latest	In use	about 15 hours ago	569.78 MB	
<none>	<none>	Unused (dangl	about 15 hours ago	569.78 MB	
springboot-docker.jar	latest	In use	about 15 hours ago	569.78 MB	
spring-compose-image	latest	Unused	6 days ago	512.77 MB	
spring-boot-docker.jar	latest	In use	6 days ago	512.77 MB	
<none>	<none>	In use (danglir	6 days ago	512.77 MB	

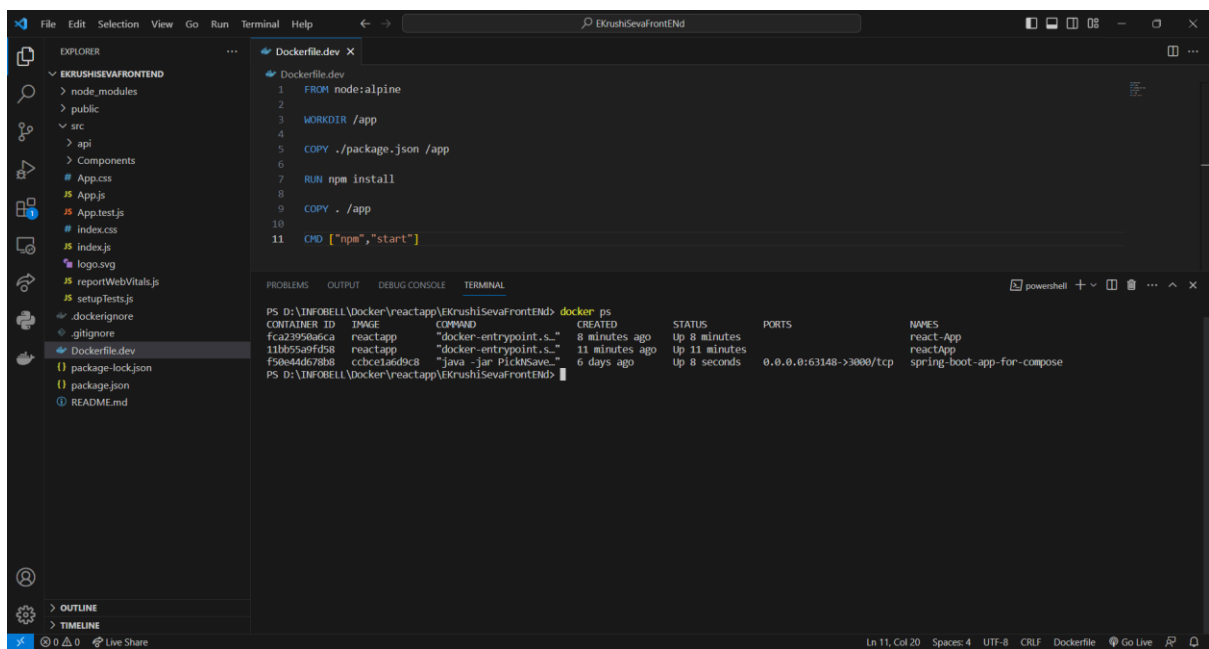
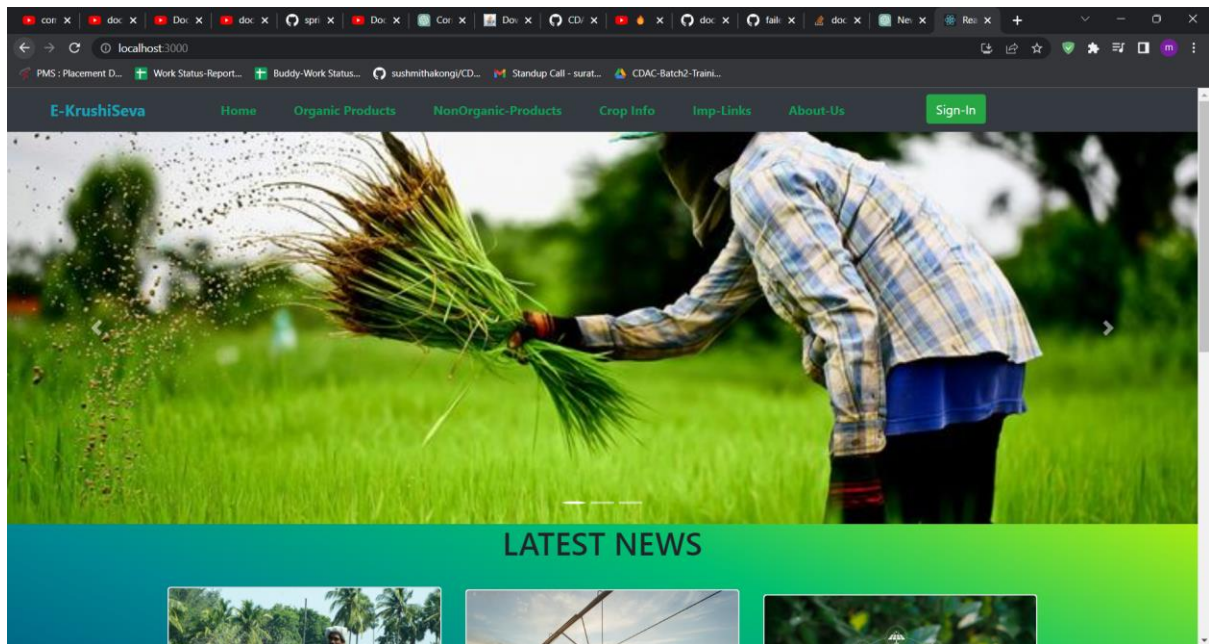


6. Creating Container









Docker Desktop

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An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

Local

Hub

Artifactory

EARLY ACCESS

4.17 GB / 5.75 GB in use

29 images

Last refresh: about 15 hours ago

Search

<input type="checkbox"/>	Name	Tag	Status	Created	Size	Actions
<input type="checkbox"/>	reactapp d7822bf83d3a	latest	In use	15 minutes ago	819.29 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	springboot-app 76112dd73caf	latest	In use	about 16 hours ago	569.78 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	<none> 090ec4ada4b9	<none>	Unused (dangl	about 16 hours ago	569.78 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	springboot-docker.jar cecf50aa110	latest	In use	about 16 hours ago	569.78 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	spring-compose-image e4180664e7a4	latest	Unused	6 days ago	512.77 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	spring-boot-docker.jar beea789dcf49	latest	In use	6 days ago	512.77 MB	<div></div> <div></div> <div></div>
<input type="checkbox"/>	<none> c0bce1af6d9c8	<none>	In use (danglit	6 days ago	512.77 MB	<div></div> <div></div> <div></div>

Showing 29 items

RAM 2.78 GB

CPU 0.91%

Not connected to Hub

v4.18.0