Docker Compose Project

Code for a React Project:

```
JS Resume.js X
                            src > components > JS Resume.js > → Resume

1 import './Resume.css';

✓ OPEN EDITORS

     JS Appjs src 1 import './Resume.css

× JS Resume.js src\co...

RESUME.REACT 3 function Resume() {
 return(
∨ RESUME-REACT
                                         <>
<div className="container"></div>
<div className='stuff'>
<div className="header">
      > public
                                            .gitignore
      {} package-lock.json
                                                     Drawing
      {} package.json
                                                      Photography
                                                      Design
       react.zip
                                                      ProgrammingS
      ① README.md
                                              <div className="sub-heading">
                                                 Skills
                                             > OUTLINE
                                              <div className="sub-heading">
```

Dockerfile for this Project: This Dockerfile will build the image for the react project that will be used by Docker Compose to deploy containers.

```
File Edit Selection View Go Run Terminal Help  

Dockerfile U X

Node_modules

Dockerfile U X

Node_modules

Node_node:latest

Node_node:latest

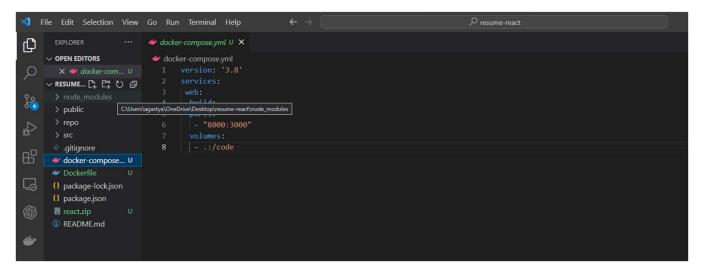
Node_mode:latest

Node_node:latest

Node_node.latest

Node_node.latest
```

Yaml File for Compose: This compose.yaml file uses the image built by the Dockerfile above to deploy the container. Volume mount is specified in the code along with exposing the port number 8000.



Before Starting Compose:

No previous Containers running:

```
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\agastya\OneDrive\Desktop\resume-react>docker container ls
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

C:\Users\agastya\OneDrive\Desktop\resume-react>
```

Volumes Before Starting compose:

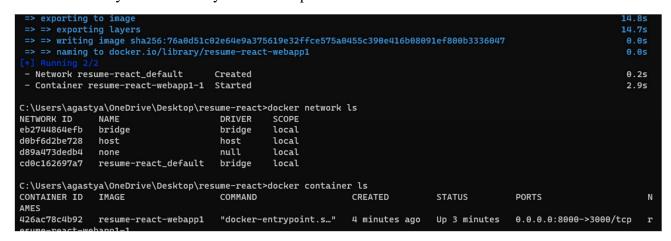
```
C:\Users\agastya\OneDrive\Desktop\resume-react>docker volume ls
DRIVER VOLUME NAME
local 25ddf6bcb77a3cd3f7796f7879a974fdaba7bc76d849c451aa59ab04b00d464f
local myvol
local myvol2
```

Starting Docker Compose: "docker compose up -d" (-d is to start it in detached mode, so I can check for changes made by compose.

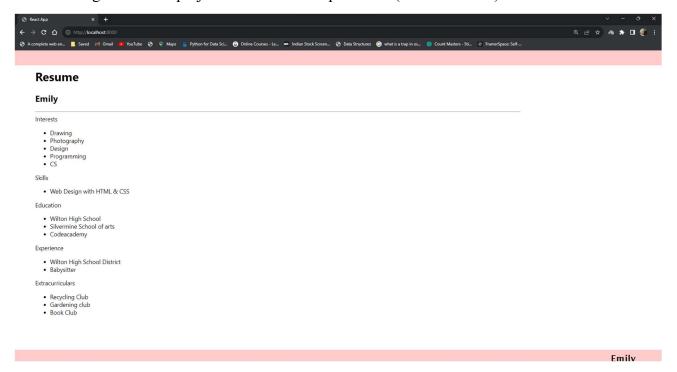
- Compose building from Dockerfile and layers are exported:

```
C:\Users\agastya\OneDrive\Desktop\resume-react>docker compose up -d
   Network resume-react_default Created
                                                                                                                                    0.2s
   Container resume-react-web-1 Started
                                                                                                                                     2.65
C:\Users\agastya\OneDrive\Desktop\resume-react>docker compose down
 - Container resume-react-web-1 Removed
                                                                                                                                   10.9s
 - Network resume-react_default Removed
                                                                                                                                    0.3s
C:\Users\agastya\OneDrive\Desktop\resume-react>docker compose up -d
[+] Building 103.5s (10/11)
=> [internal] load build definition from Dockerfile
                                                                                                                                    0.15
                                                                                                                                    0.1s
                                                                                                                                    0.05
 => => transferring context: 2B
=> [internal] load metadata for docker.io/library/node:latest => [internal] load build context
                                                                                                                                    0.05
                                                                                                                                   32.45
                                                                                                                                   31.8s
                                                                                                                                    0.05
=> CACHED [2/6] WORKDIR /app
=> CACHED [3/6] COPY package*.json ./
=> CACHED [4/6] RUN npm install
                                                                                                                                    \theta.\theta s
                                                                                                                                    0.05
                                                                                                                                   40.6s
                                                                                                                                   23.5s
 => exporting to image
                                                                                                                                    6.5s
 => => exporting layers
                                                                                                                                    6.5s
```

- Network Layer is created by docker compose and containers are started:



- Checking if the react project is accessible on port 8000 (localhost:8000):



Project is accessible on port 8000.