



National Textile University

Department of Computer Science

Subject:

Operating System

Submitted To:

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Submitted By:

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Registration No:

23-NTU-CS-1163

Lab:

13

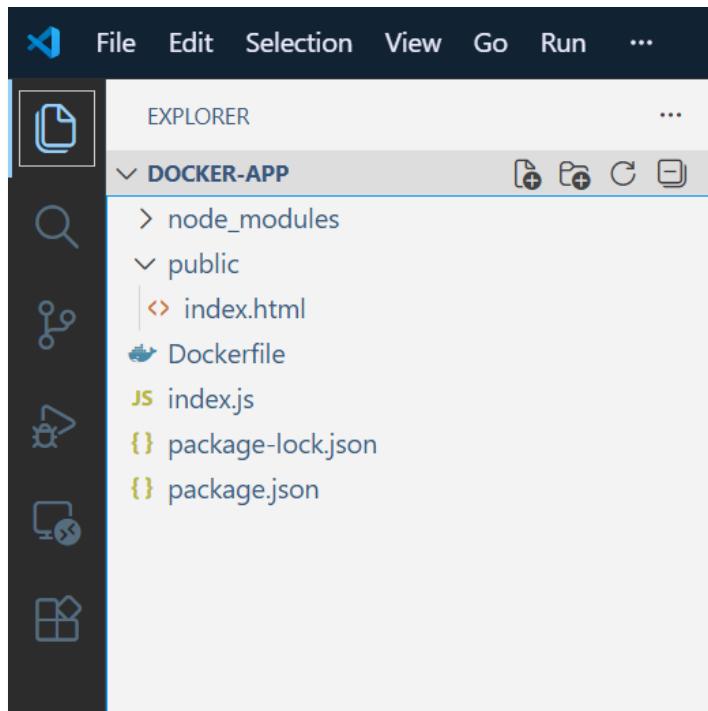
Semester:

5th

Practice Exercise: Build Your Own Image

Challenge: Serve static HTML files from our previously build node server!

Directory:

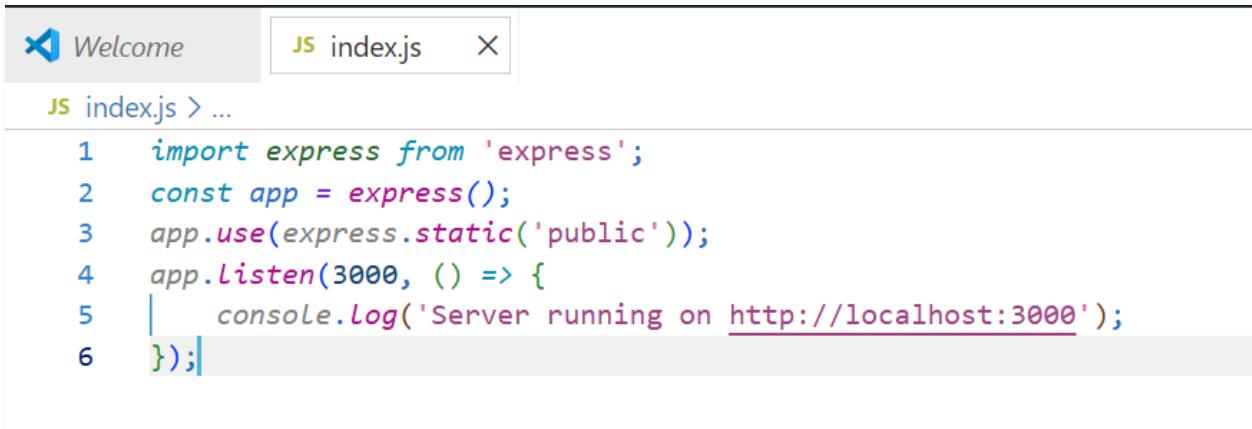


Docker File:

The screenshot shows the VS Code interface with the Dockerfile tab active. The Dockerfile content is as follows:

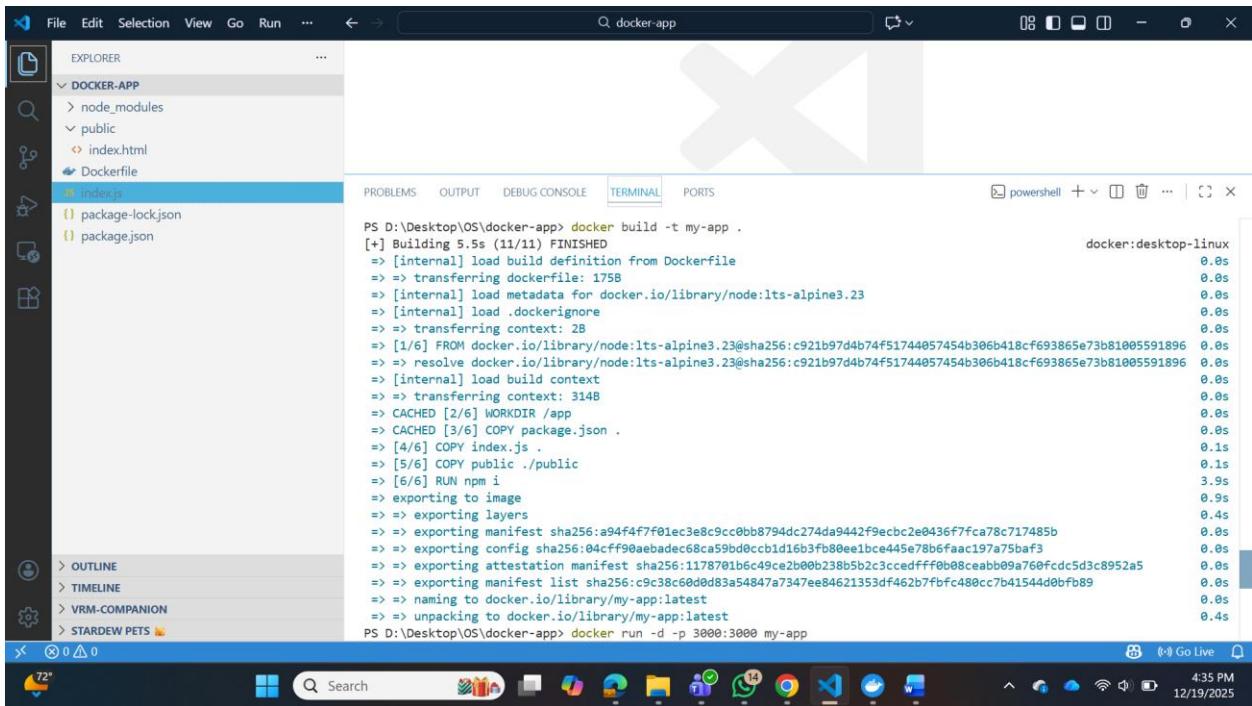
```
1 FROM node:lts-alpine3.23
2 WORKDIR /app
3 COPY package.json .
4 COPY index.js .
5 COPY public ./public
6 RUN npm i
7 CMD ["node", "index.js"]
```

Index.js:



```
JS index.js > ...
1 import express from 'express';
2 const app = express();
3 app.use(express.static('public'));
4 app.listen(3000, () => {
5   console.log('Server running on http://localhost:3000');
6 });|
```

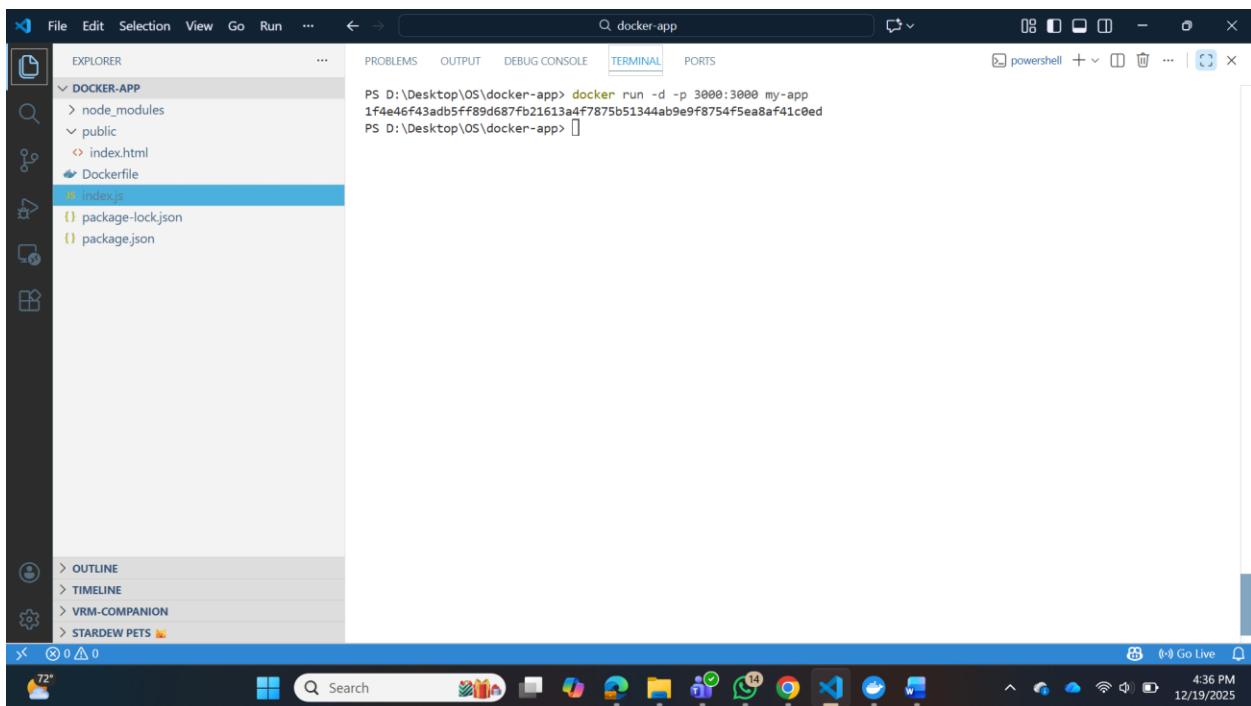
Image Creation:



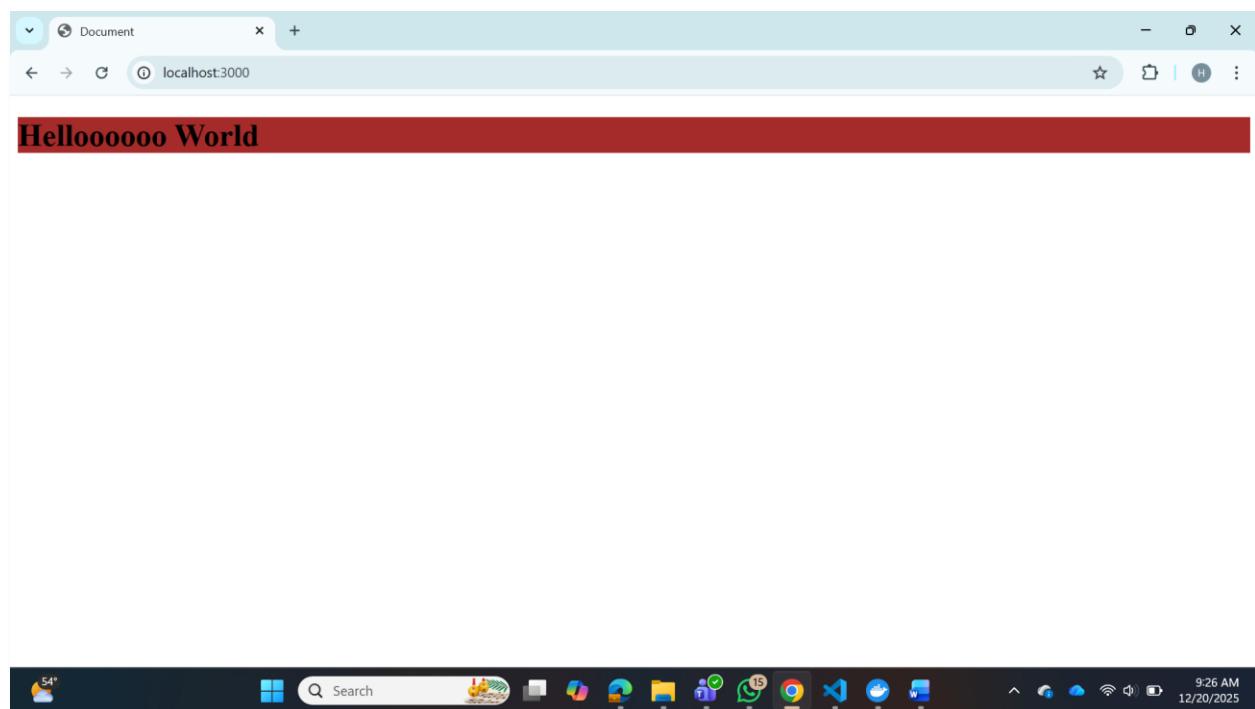
The screenshot shows a Windows desktop environment with a Visual Studio Code (VS Code) window open. The VS Code interface includes:

- EXPLORER** sidebar: Shows a folder structure for "DOCKER-APP" containing "node_modules", "public" (with "index.html" and "Dockerfile"), and "index.js".
- TERMINAL** tab: Displays the command "docker build -t my-app .". The output of the build process is shown, indicating a successful build (5.5s total time) using Dockerfile, copying files, and creating layers.
- OUTPUT** tab: Shows log entries related to the build process.
- PROBLEMS** tab: Shows no errors or warnings.
- DEBUG CONSOLE** tab: Not currently active.

Below the VS Code window, the Windows taskbar is visible, showing the date and time (12/19/2025, 4:35 PM), system icons (battery at 72%, signal strength, volume, etc.), and pinned application icons for File Explorer, File History, File Cabinet, Task View, Mail, Photos, OneDrive, Microsoft Edge, and others.



Output:



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