

# National Textile University, Faisalabad

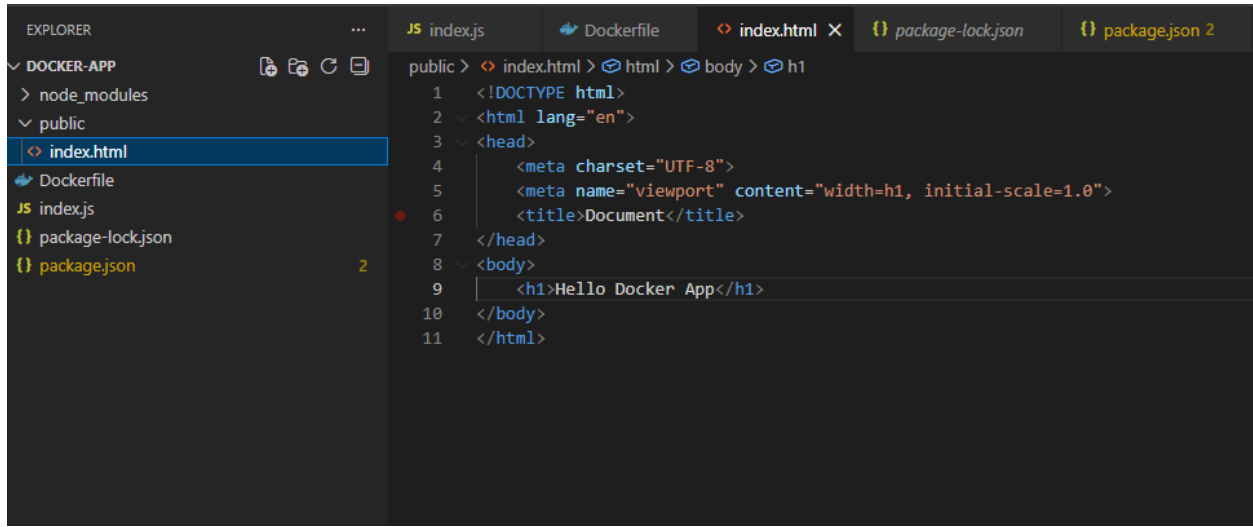


## Department of Computer Science

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<b>Reg. No.</b>	23-NTU-CS-1145
<b>Course</b>	Operating system
<b>Submitted To</b>	Sir Nasir Mehmood
<b>Submission Date</b>	19/12/2025
<b>Lab No.</b>	13

## Lab No. 13 Operating system

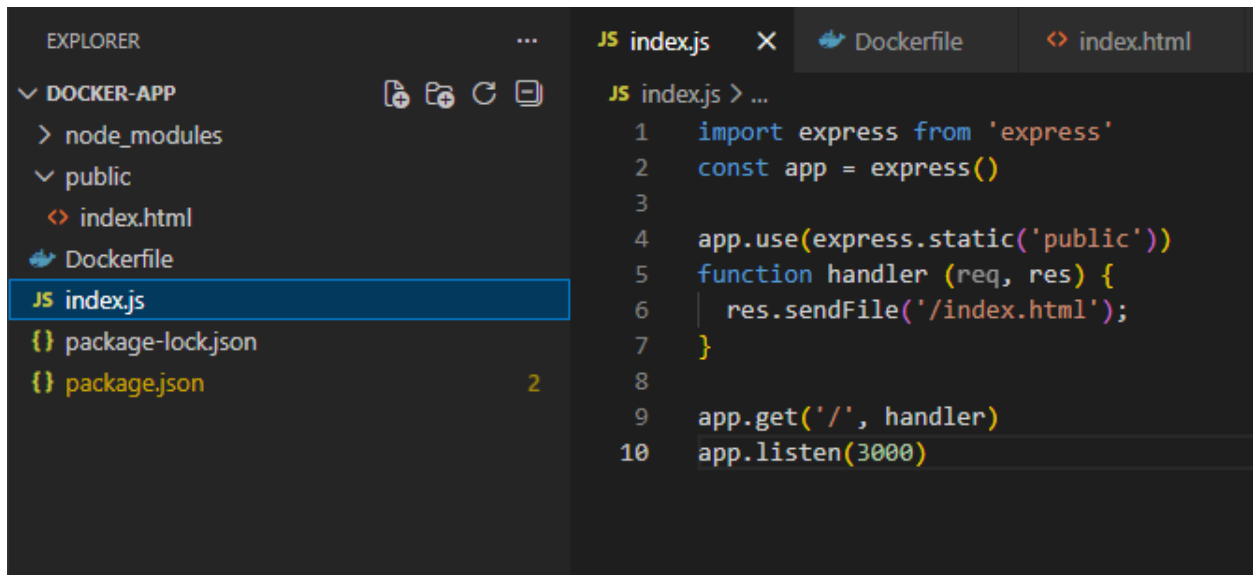
### Index.html



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left. The 'DOCKER-APP' workspace is expanded, showing the 'public' directory. The 'index.html' file is selected and its content is displayed in the main editor. The code is a basic HTML document with a single heading.

```
public > index.html > html > body > h1
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <h1>Hello Docker App</h1>
10 </body>
11 </html>
```

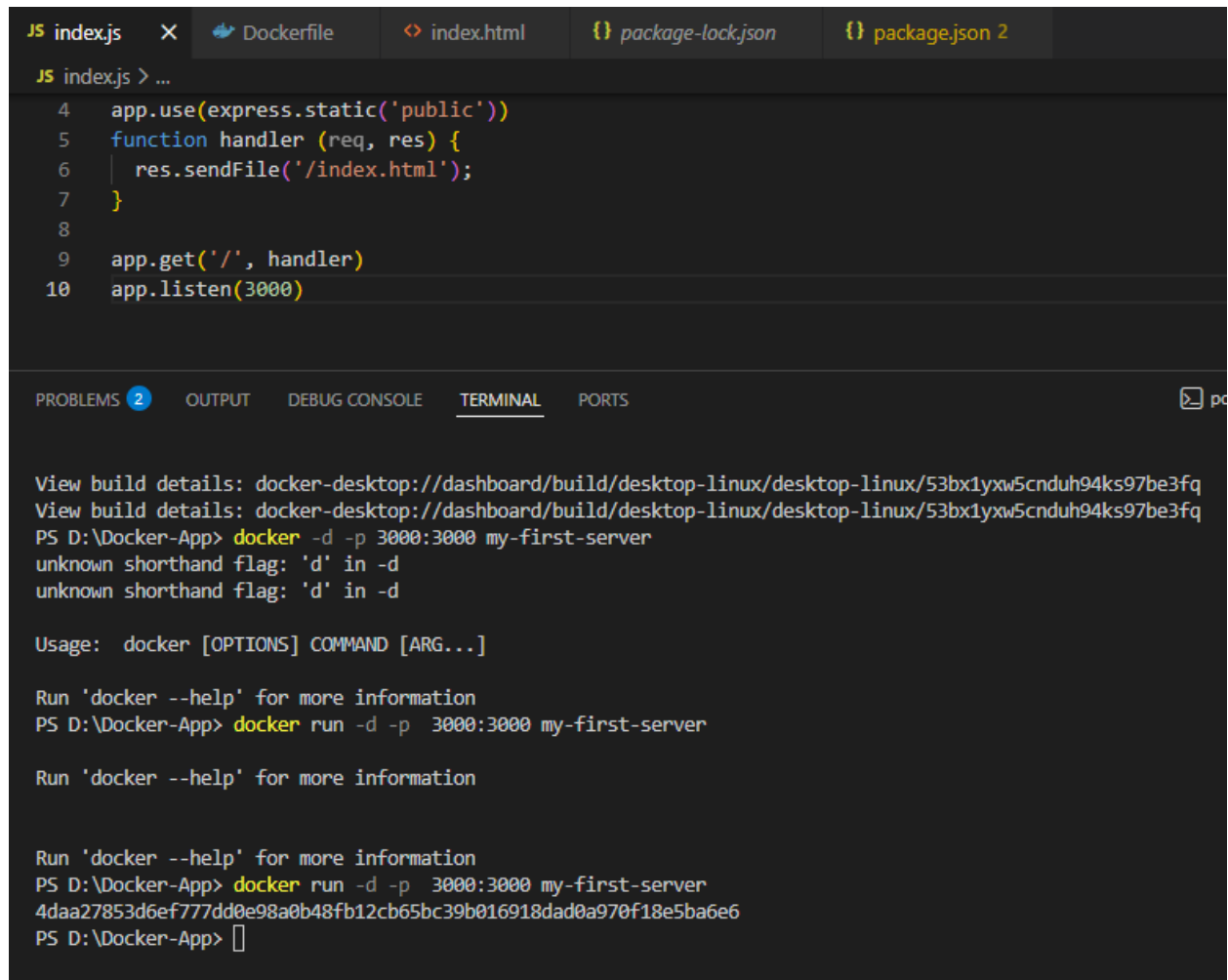
### Index.js



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left. The 'DOCKER-APP' workspace is expanded, showing the 'public' directory. The 'index.js' file is selected and its content is displayed in the main editor. The code is a Node.js script using Express.js to serve the index.html file.

```
JS index.js > ...
1  import express from 'express'
2  const app = express()
3
4  app.use(express.static('public'))
5  function handler (req, res) {
6      res.sendFile('/index.html');
7  }
8
9  app.get('/', handler)
10 app.listen(3000)
```

## Terminal Screenshot:



The screenshot shows a VS Code editor with five tabs: `index.js`, `Dockerfile`, `index.html`, `package-lock.json`, and `package.json 2`. The `index.js` tab is active, displaying the following code:

```
JS index.js > ...
4  app.use(express.static('public'))
5  function handler (req, res) {
6    |   res.sendFile('/index.html');
7  }
8
9  app.get('/', handler)
10 app.listen(3000)
```

Below the editor, the `TERMINAL` tab is active, showing the output of a Docker command. The terminal text is as follows:

```
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/53bx1yxw5cnduh94ks97be3fq
View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/53bx1yxw5cnduh94ks97be3fq
PS D:\Docker-App> docker -d -p 3000:3000 my-first-server
unknown shorthand flag: 'd' in -d
unknown shorthand flag: 'd' in -d

Usage:  docker [OPTIONS] COMMAND [ARG...]

Run 'docker --help' for more information
PS D:\Docker-App> docker run -d -p 3000:3000 my-first-server

Run 'docker --help' for more information

Run 'docker --help' for more information
PS D:\Docker-App> docker run -d -p 3000:3000 my-first-server
4daa27853d6ef777dd0e98a0b48fb12cb65bc39b016918dad0a970f18e5ba6e6
PS D:\Docker-App> 
```

## Output Local host Screenshot:

