

# Docker Documentation

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I have a simple Lost-and-Found web application designed specifically for VIT students. The frontend is built using React.

In this activity, I am going to containerize the application using Docker so it can run smoothly on any system without requiring manual setup.

## Project structure:

The screenshot shows a file explorer window with the following structure:

- LOST-AND-FOUND
  - node\_modules
  - public
    - index.html
    - manifest.json
  - src
    - components
      - Dashboard.js
      - FoundItemForm.js
      - ItemList.js
      - Login.js
      - LostItemForm.js
      - OTPVerify.js
      - ReportFoundForm.js
      - ReportLostForm.js
    - <# App.css>
    - 
    - <# index.css>
    -
  - .dockerignore
  - .gitignore
  - dockerfile
  - nginx.conf
  - package-lock.json
  - package.json
  - README.md
  - requirements.txt

```
📄 dockerfile ✘ X
📄 dockerfile
1  FROM node:14-bullseye-slim AS build
2
3  WORKDIR /app
4
5  COPY package*.json ./
6
7  RUN npm install --legacy-peer-deps
8
9  RUN npm uninstall ajv ajv-keywords -f
10 RUN npm install ajv@6 ajv-keywords@3
11
12 COPY . .
13
14 RUN npm run build
15
16 FROM nginx:alpine
17
18 RUN rm -rf /usr/share/nginx/html/*
19 COPY nginx.conf /etc/nginx/conf.d/default.conf
20 COPY --from=build /app/build /usr/share/nginx/html
21
22 EXPOSE 80
23
24 CMD ["nginx", "-g", "daemon off;"]
25
```

### Terminal Commands:

```
PS D:\lost-and-found\lost-and-found> docker build --no-cache -t lost-and-found .
>> docker run -p 3000:80 lost-and-found
>>
[+] Building 146.6s (18/18) FINISHED
```

```
PS D:\lost-and-found\lost-and-found> docker login
>>
Authenticating with existing credentials... [Username: sathishveera012]
[Info → To login with a different account, run 'docker logout' followed by 'docker login'
Login Succeeded
```

```
PS D:\lost-and-found\lost-and-found> docker tag lost-and-found sathishveera012/lost-and-found:latest
>>
PS D:\lost-and-found\lost-and-found> docker push sathishveera012/lost-and-found:latest
>>
The push refers to repository [docker.io/sathishveera012/lost-and-found]
```

## Link for image in DockerHub:

<https://hub.docker.com/r/sathishveera012/lost-and-found>

## Docker desktop:

