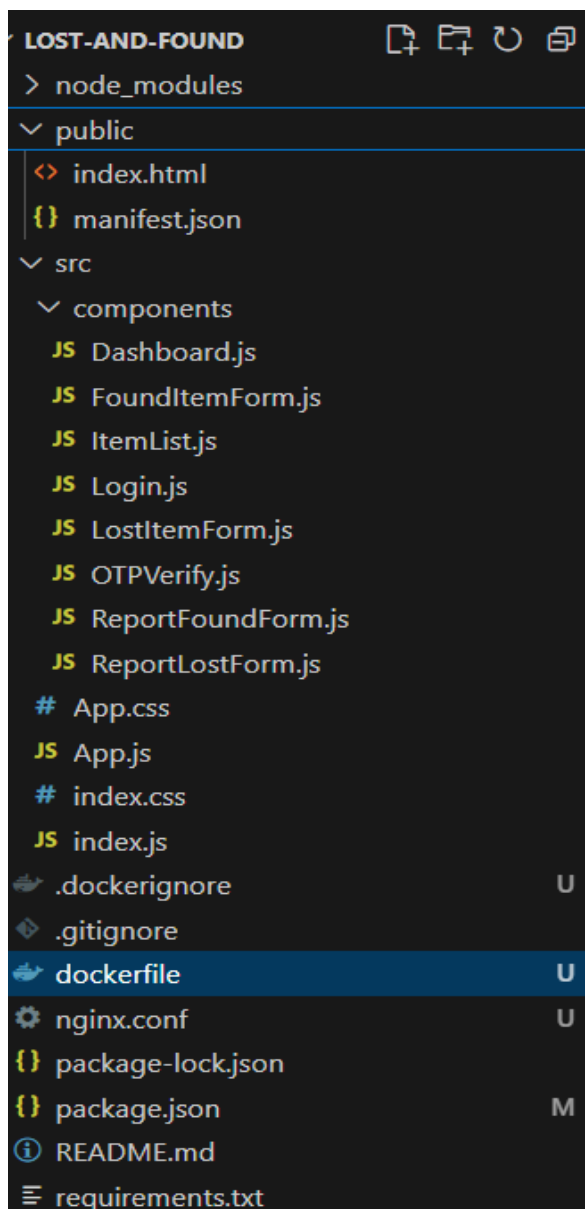# Docker Documentation

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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:

```dockerfile
FROM node:14-bullseye-slim AS build

WORKDIR /app

COPY package*.json ./

RUN npm install --legacy-peer-deps

RUN npm uninstall ajv ajv-keywords -f
RUN npm install ajv@6 ajv-keywords@3

COPY . .

RUN npm run build

FROM nginx:alpine

RUN rm -rf /usr/share/nginx/html/*
COPY nginx.conf /etc/nginx/conf.d/default.conf
COPY --from=build /app/build /usr/share/nginx/html

EXPOSE 80

CMD ["nginx", "-g", "daemon off;"]
```

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]

i 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: