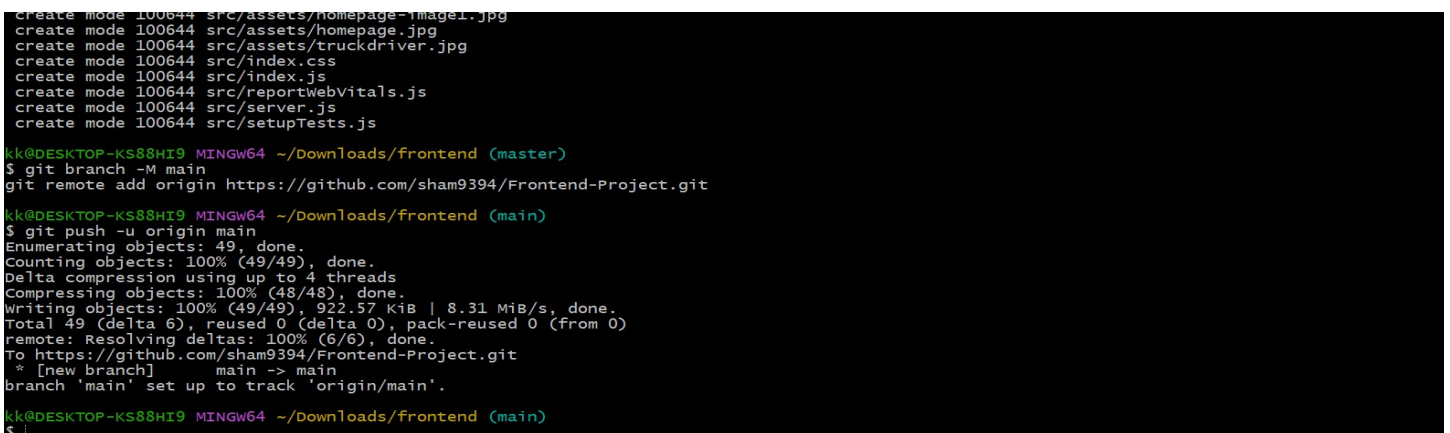
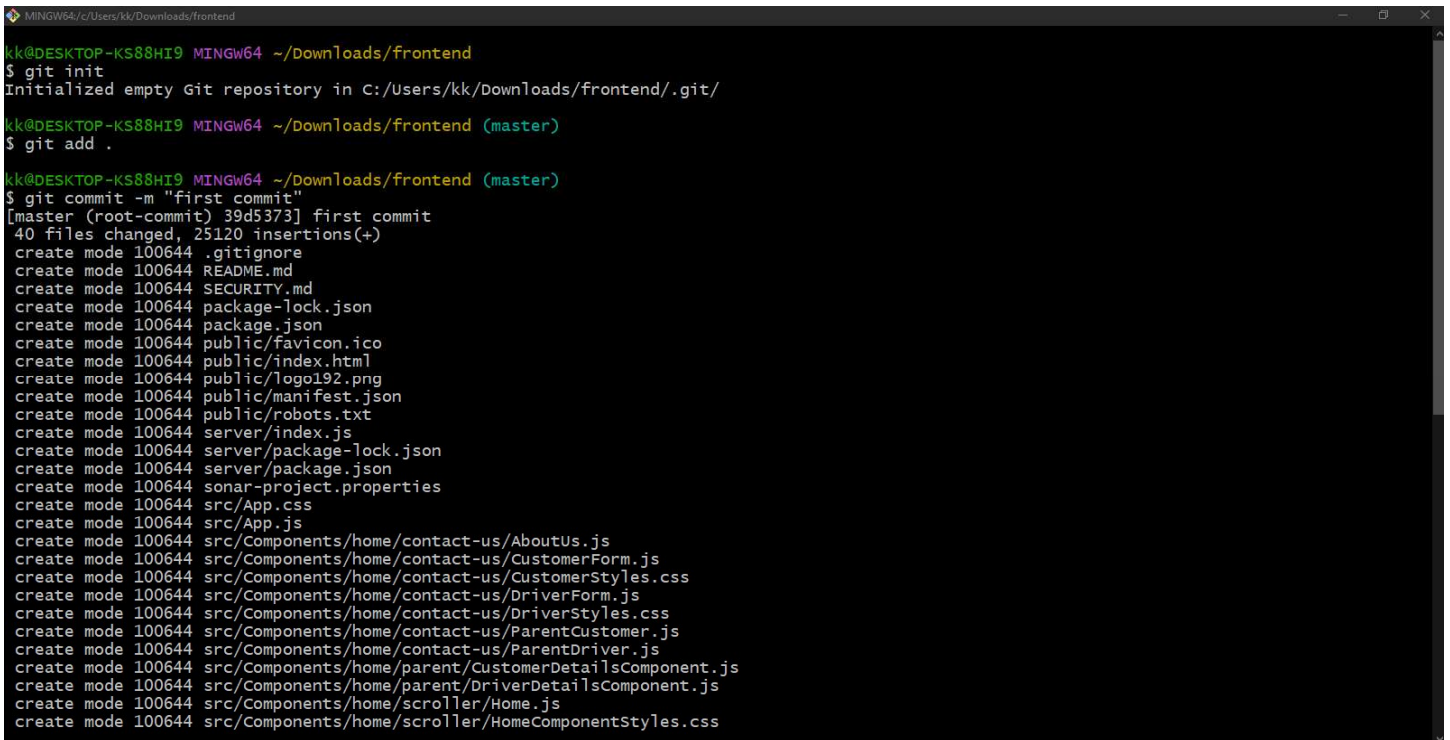
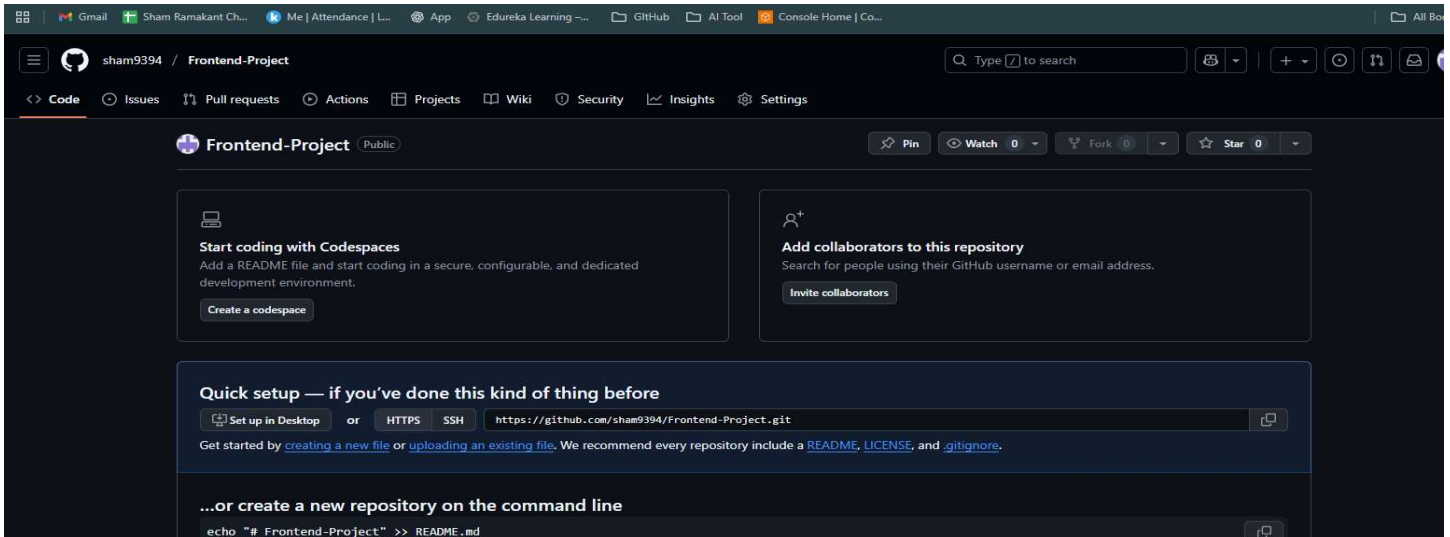
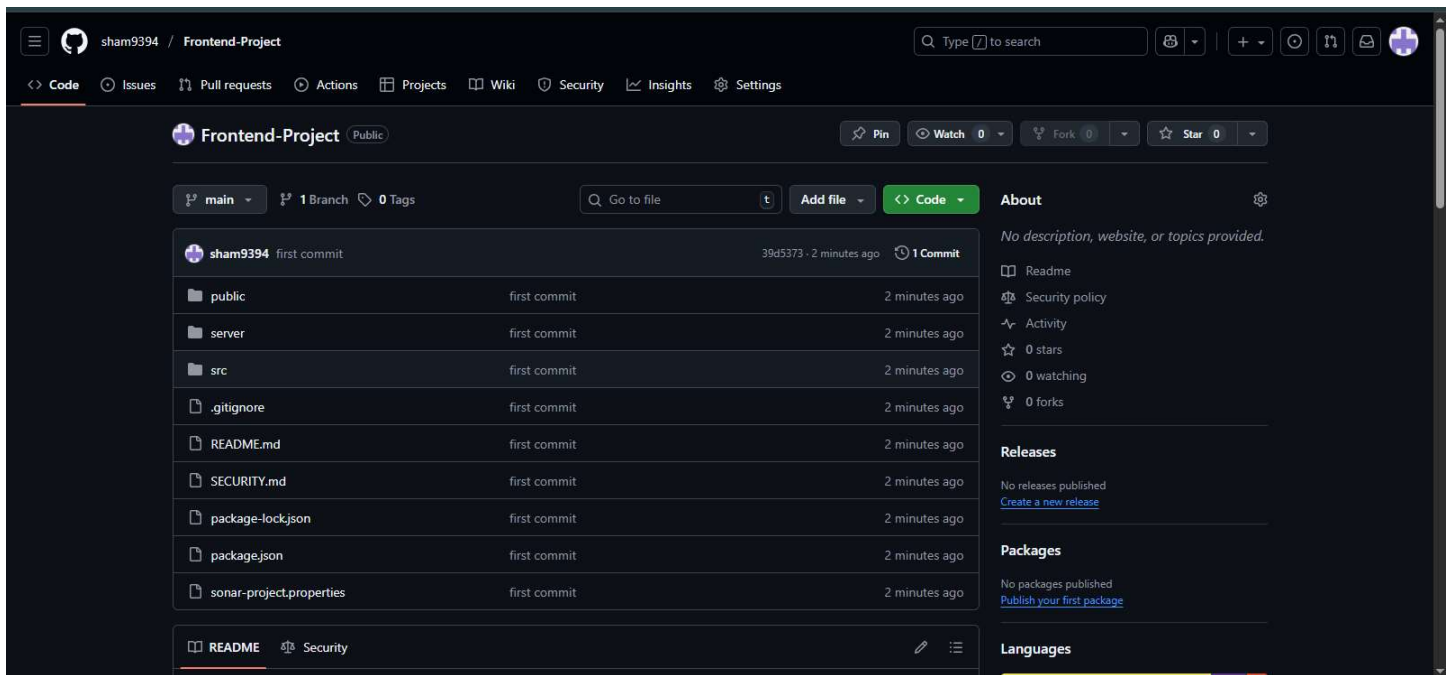


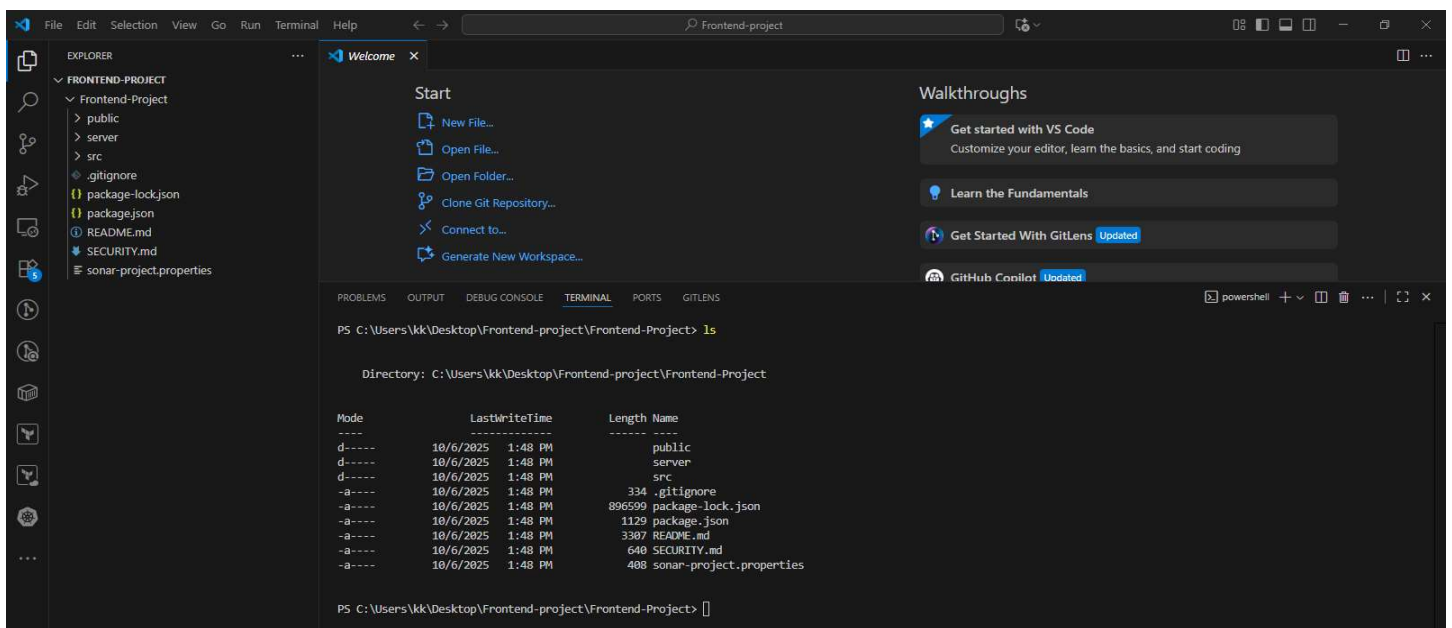
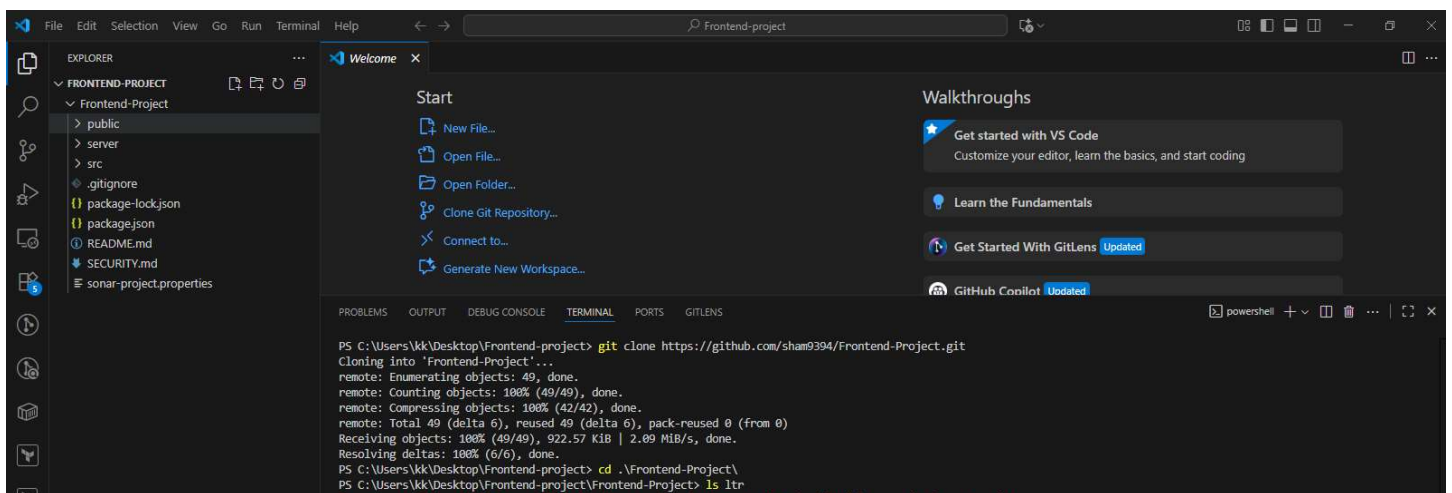
Task – Run Frontend Project.

1. Create a Repo to GitHub and push code to repository.

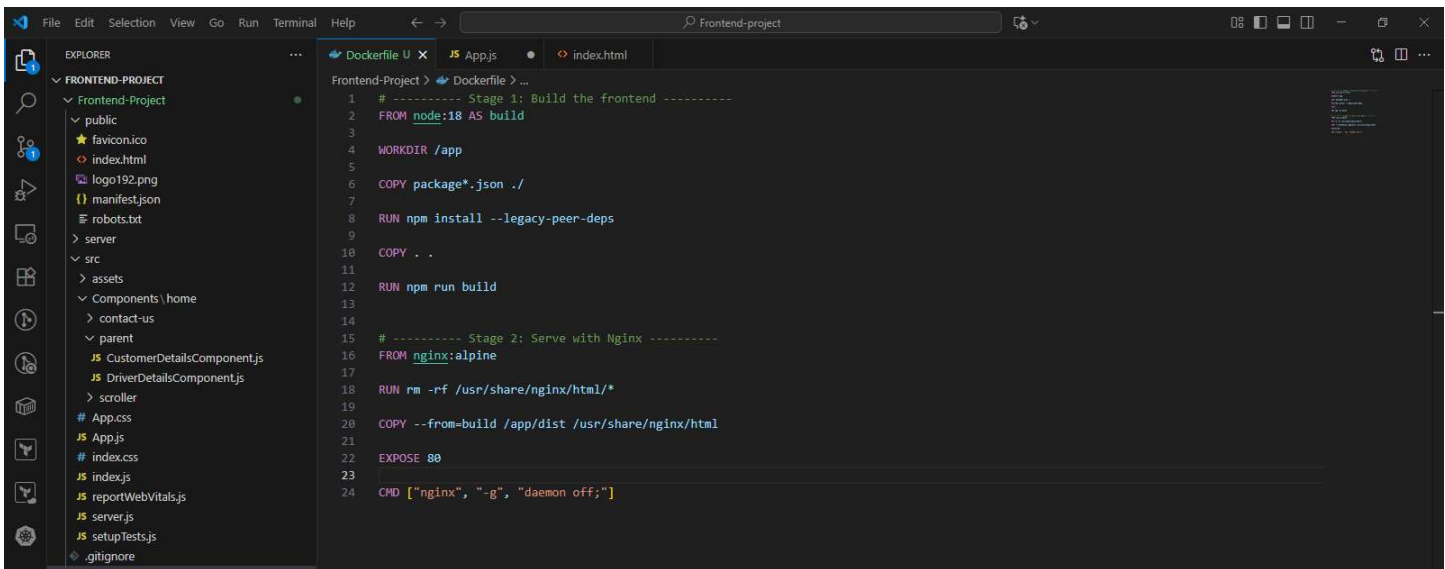




2. Pull The code on locally.



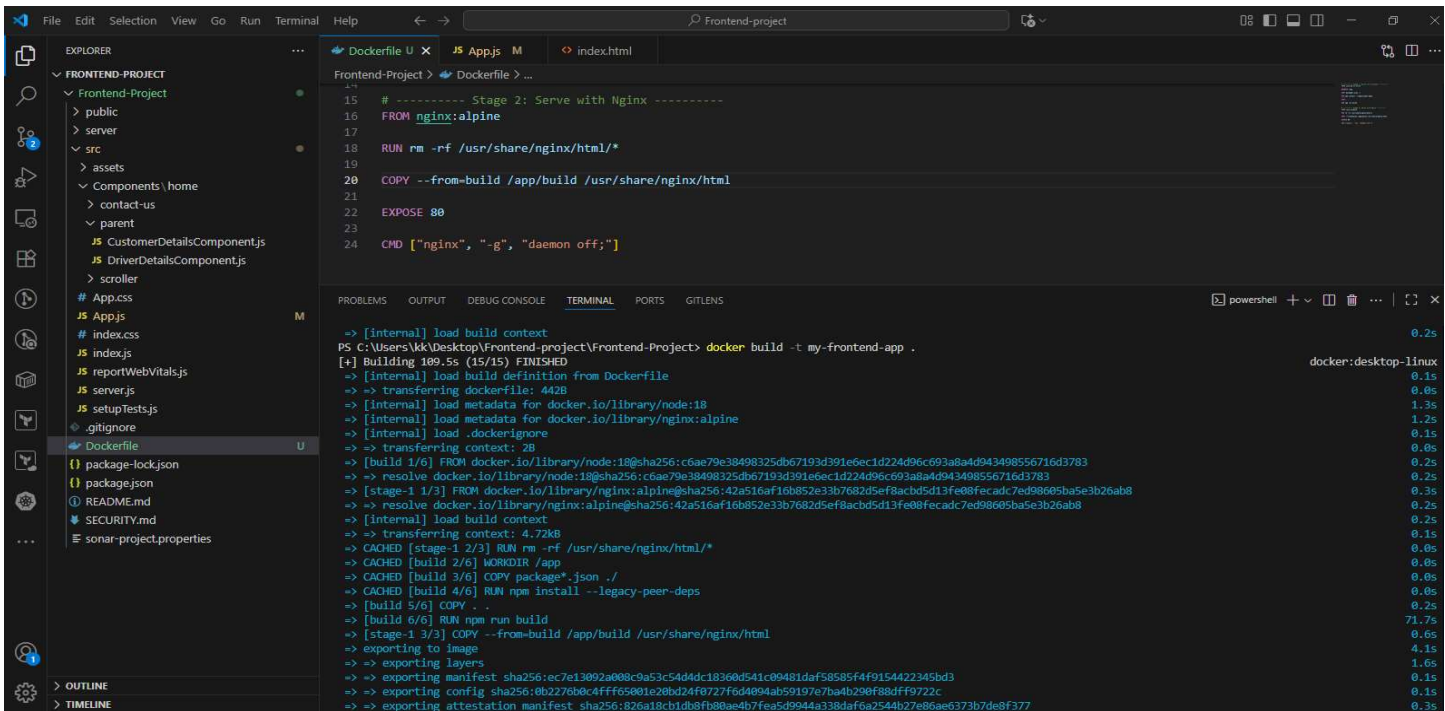
3. Write a docker file to RUN application.



The screenshot shows a VS Code editor with a project named 'Frontend-project'. The Explorer panel on the left shows the project structure, including a 'public' directory with 'index.html' and 'logo192.png', and a 'server' directory with 'src' and 'assets'. The Dockerfile is being edited in the 'Dockerfile U' tab. The Dockerfile contains two stages: Stage 1 for building the frontend and Stage 2 for serving with Nginx.

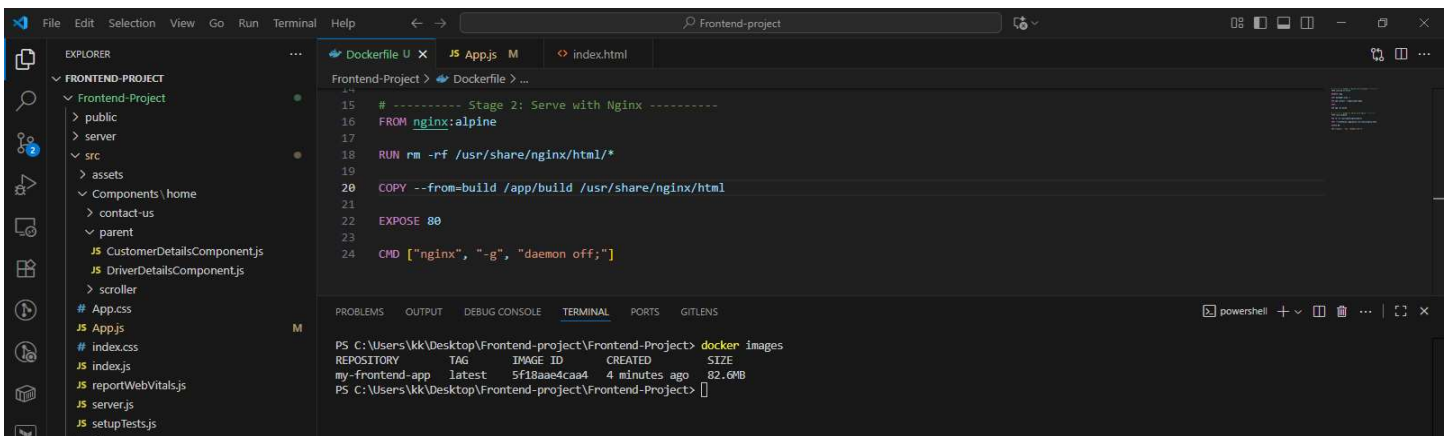
```
1 # ----- Stage 1: Build the frontend -----
2 FROM node:18 AS build
3
4 WORKDIR /app
5
6 COPY package*.json ./
7
8 RUN npm install --legacy-peer-deps
9
10 COPY . .
11
12 RUN npm run build
13
14 # ----- Stage 2: Serve with Nginx -----
15 FROM nginx:alpine
16
17 RUN rm -rf /usr/share/nginx/html/*
18
19 COPY --from=build /app/dist /usr/share/nginx/html
20
21 EXPOSE 80
22
23 CMD ["nginx", "-g", "daemon off;"]
```

4. Create a Docker file and Run container.



The screenshot shows the VS Code editor with the 'Dockerfile U' tab selected. The Dockerfile content is the same as in the previous screenshot. The 'TERMINAL' panel at the bottom shows the output of the 'docker build' command, indicating that the image was built successfully. The output includes details about the build context, the Dockerfile, and the layers of the image.

```
PS C:\Users\kk\Desktop\Frontend-project\Frontend-Project> docker build -t my-front-end-app .
[+] Building 109.5s (15/15) FINISHED
=> [internal] load build context
=> [internal] load build definition from Dockerfile
=> [internal] load metadata for docker.io/library/node:18
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load dockerignore
=> transferring context: 2B
=> [build 1/6] FROM docker.io/library/node:18@sha256:c6ae79e38498325db67193d391e6ec1d224d96c693a8a4d943498556716d3783
=> resolve docker.io/library/node:18@sha256:c6ae79e38498325db67193d391e6ec1d224d96c693a8a4d943498556716d3783
=> [stage-1 1/3] FROM docker.io/library/nginx:alpine@sha256:42a516af16b852e33b7682d5ef8acbd5d13fe08fecad7ed98605ba5e3b26ab8
=> resolve docker.io/library/nginx:alpine@sha256:42a516af16b852e33b7682d5ef8acbd5d13fe08fecad7ed98605ba5e3b26ab8
=> [internal] load build context
=> transferring context: 4.72kB
=> CACHED [stage-1 2/3] RUN rm -rf /usr/share/nginx/html/*
=> CACHED [build 2/6] WORKDIR /app
=> CACHED [build 3/6] COPY package*.json ./
=> CACHED [build 4/6] RUN npm install --legacy-peer-deps
=> [build 5/6] COPY . .
=> [build 6/6] RUN npm run build
=> [stage-1 3/3] COPY --from=build /app/build /usr/share/nginx/html
=> exporting to image
=> exporting layers
=> exporting manifest sha256:ec7e13092a008c9a53c54dd4c18360d541c09481daf58585f4f9154422345bd3
=> exporting config sha256:0b2278b0c4ff65081e28bd24f0727f0d4894ab59197e7ba4b290f8bdff9722c
=> exporting attestation manifest sha256:b26a18c1b1d8f080ae4b7f6a5d9944a3381af6a2544b27e86ae6373b7de0f377
```



The screenshot shows the VS Code editor with the 'Dockerfile U' tab selected. The Dockerfile content is the same as in the previous screenshot. The 'TERMINAL' panel at the bottom shows the output of the 'docker images' command, indicating that the image was built successfully. The output includes details about the repository, tag, image ID, created time, and size.

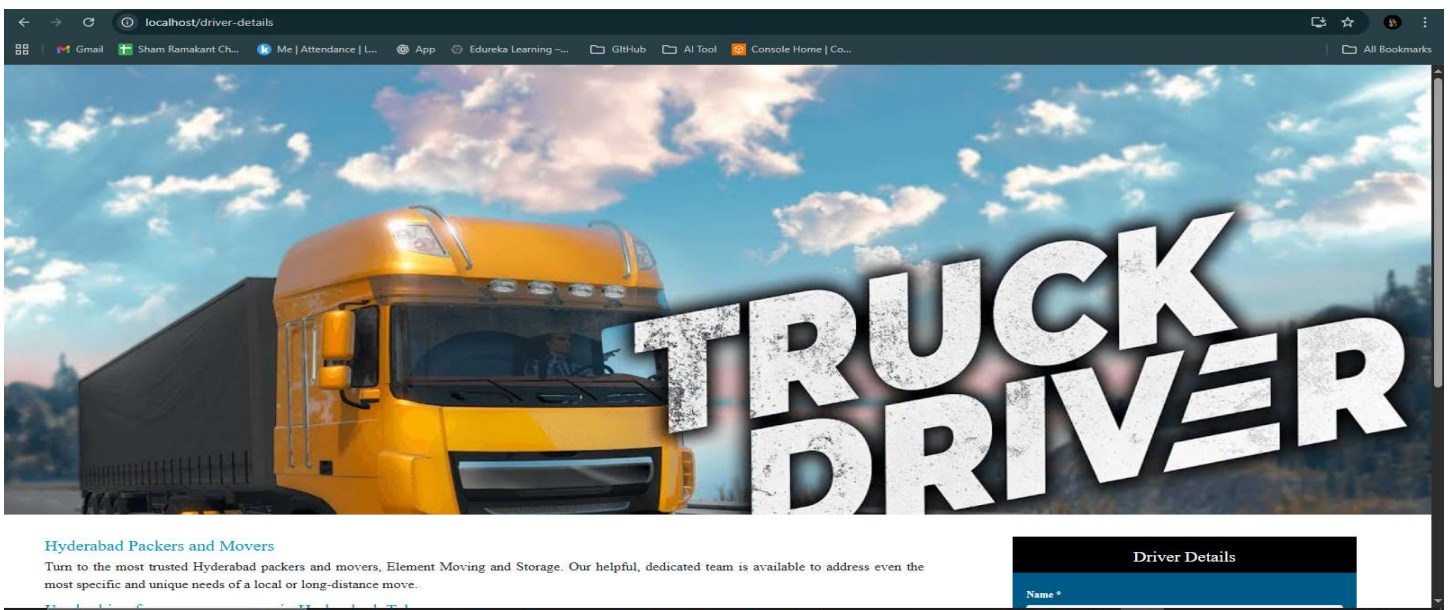
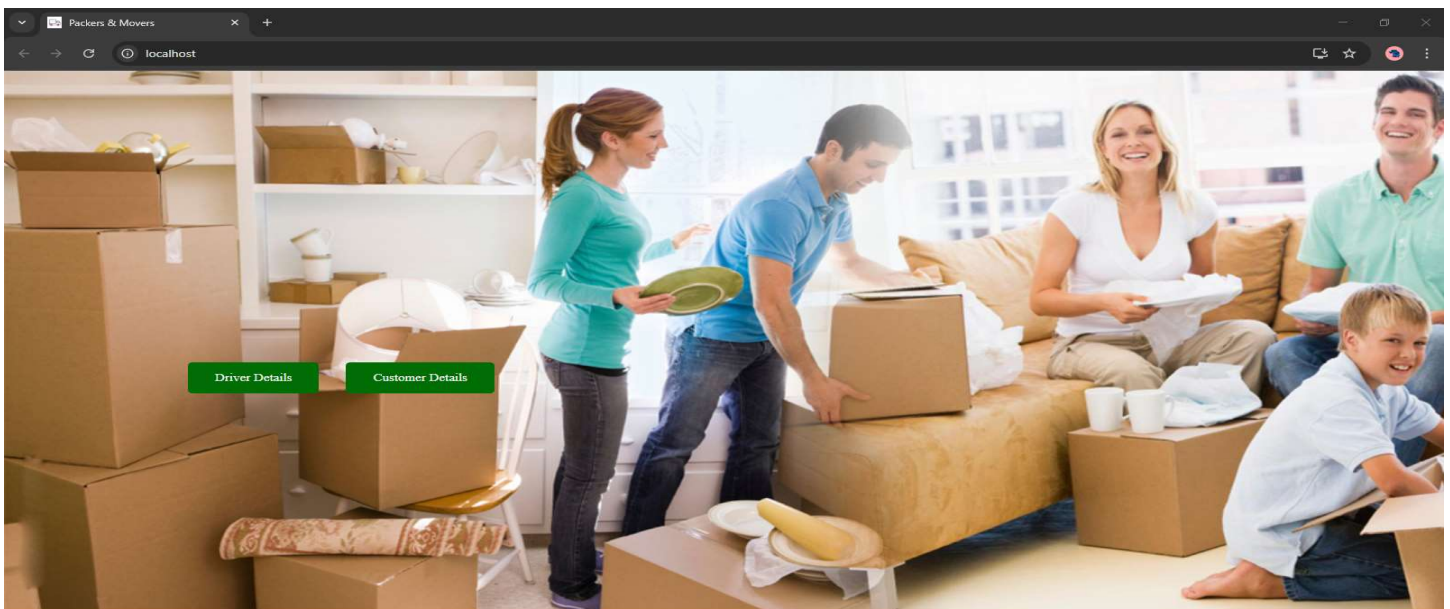
```
PS C:\Users\kk\Desktop\Frontend-project\Frontend-Project> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
my-front-end-app latest 5f18aae4caa4 4 minutes ago 82.6MB
PS C:\Users\kk\Desktop\Frontend-project\Frontend-Project>
```



```
Frontend-Project > Dockerfile > ...
15 # ----- Stage 2: Serve with Nginx -----
16 FROM nginx:alpine
17
18 RUN rm -rf /usr/share/nginx/html/*
19
20 COPY --from=build /app/build /usr/share/nginx/html
21
22 EXPOSE 80
23
24 CMD ["nginx", "-g", "daemon off;"]
```

```
PS C:\Users\vk\Desktop\Frontend-project\Frontend-Project> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
my-frontend-app     latest             5f18aa4caa4        4 minutes ago      82.6MB
PS C:\Users\vk\Desktop\Frontend-project\Frontend-Project> docker run -d -p 80:80 my-frontend-app
3d779212668a60c4516cb0293354299d595dbe63bfc858cdd5fc4123cb528c53
PS C:\Users\vk\Desktop\Frontend-project\Frontend-Project> docker ps
CONTAINER ID        IMAGE               COMMAND              CREATED             STATUS              PORTS               NAMES
3d779212668a        my-frontend-app    "/docker-entrypoint..." 7 seconds ago       Up 4 seconds       0.0.0.0:80->80/tcp, [::]:80->80/tcp   great_noether
PS C:\Users\vk\Desktop\Frontend-project\Frontend-Project>
```

5. Verify the output.





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<input type="text" value="Email"/>	
Phone Number *	
<input type="text" value="Phone"/>	
From Address	To Address
<input type="text" value="From Address"/>	<input type="text" value="To Address"/>
Estimated Date	