UID: 23BCS13369 **Class: 622-B 1**□□ Project Structure frontend/ --- Dockerfile --- package.json --- package-lock.json └── src/ $2 \square \square$ Multi-Stage Dockerfile # ----- Stage 1: Build React app -----FROM node:18-alpine AS builder # Set working directory WORKDIR /app # Copy dependencies first (for better caching) COPY package*.json ./ # Install dependencies

RUN npm ci

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```
# Copy rest of the source code
COPY..
# Build the app for production
RUN npm run build
# ----- Stage 2: Serve with Nginx -----
FROM nginx:alpine
# Remove default nginx website
RUN rm -rf /usr/share/nginx/html/*
# Copy build files from the builder stage
COPY --from=builder /app/build /usr/share/nginx/html
# Expose port 80
EXPOSE 80
# Start nginx
```

Build & Run Commands

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

Build the image

docker build -t react-app-prod .

Run the container

docker run -d -p 80:80 react-app-prod

Output in Image Form:

