

```

Docker compose file:
version: "3.9"

services:
  frontend:
    build:
      context: ./ecommerce/ecommerce-frontend
      dockerfile: Dockerfile
    ports:
      - "3000:80"
    depends_on:
      - backend
    networks:
      - webnet

  backend:
    build:
      context: ./ecommerce
      dockerfile: Dockerfile
    ports:
      - "8000:8000"
    volumes:
      - sqlite_data:/app/db
    environment:
      - DJANGO_ALLOWED_HOSTS=localhost,127.0.0.1
      - CORS_ALLOWED_ORIGINS=http://localhost:3000
    networks:
      - webnet

volumes:
  sqlite_data:

networks:
  webnet:

Backend dockerfile:

FROM python:3.11-slim

ENV PYTHONDONTWRITEBYTECODE=1
ENV PYTHONUNBUFFERED=1

WORKDIR /app

# Install build dependencies for mysqlclient on Debian Bookworm
RUN apt-get update && \
  apt-get install -y --no-install-recommends \
    gcc \
    build-essential \
    libmariadb-dev \
    libmariadb-dev-compat \
    pkg-config \
    python3-dev \
  && rm -rf /var/lib/apt/lists/*

COPY requirements.txt .
RUN pip install --upgrade pip
RUN pip install -r requirements.txt

```

```
COPY ..
```

```
COPY docker-entrypoint.sh /usr/local/bin/  
RUN chmod +x /usr/local/bin/docker-entrypoint.sh
```

```
EXPOSE 8000
```

```
ENTRYPOINT ["docker-entrypoint.sh"]  
CMD ["gunicorn", "ecommerce.wsgi:application", "--bind", "0.0.0.0:8000", "--workers", "3"]
```

```
Docker-entrypoint.sh:
```

```
#!/bin/bash  
set -e  
  
python manage.py migrate --noinput  
python manage.py collectstatic --noinput  
  
exec "$@"
```

```
Frontend dockerfile:
```

```
# 1) Build Angular app  
FROM node:18 AS builder  
WORKDIR /app
```

```
COPY package*.json ./  
RUN npm ci --legacy-peer-deps
```

```
COPY ..  
ENV NODE_OPTIONS=--max-old-space-size=4096  
RUN npm run build -- --configuration production
```

```
# 2) Serve using Nginx  
FROM nginx:alpine  
COPY --from=builder /app/dist/ecommerce-frontend /usr/share/nginx/html  
COPY nginx.conf /etc/nginx/conf.d/default.conf
```

```
EXPOSE 80
```

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

```
Nginx.conf:
```

```
server {  
    listen 80;  
    server_name _;  
  
    root /usr/share/nginx/html;  
    index index.html;  
  
    # SPA routing support  
    location / {  
        try_files $uri $uri/ /index.html;  
    }  
  
    # Reverse proxy for Django API  
    location /api/ {  
        proxy_pass http://backend:8000/api/;  
        proxy_set_header Host $host;
```

```
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
}
```