

Task 2 - Containerize and Run Medusa Locally Using Docker

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Step 1: Install Docker

Ensure Docker is installed on your system. Download Docker from the official Docker website and follow the installation instructions for your OS (Windows, macOS, or Linux).

Step 2: Clone the Medusa GitHub Repository

Clone the official Medusa repository and navigate to the directory:

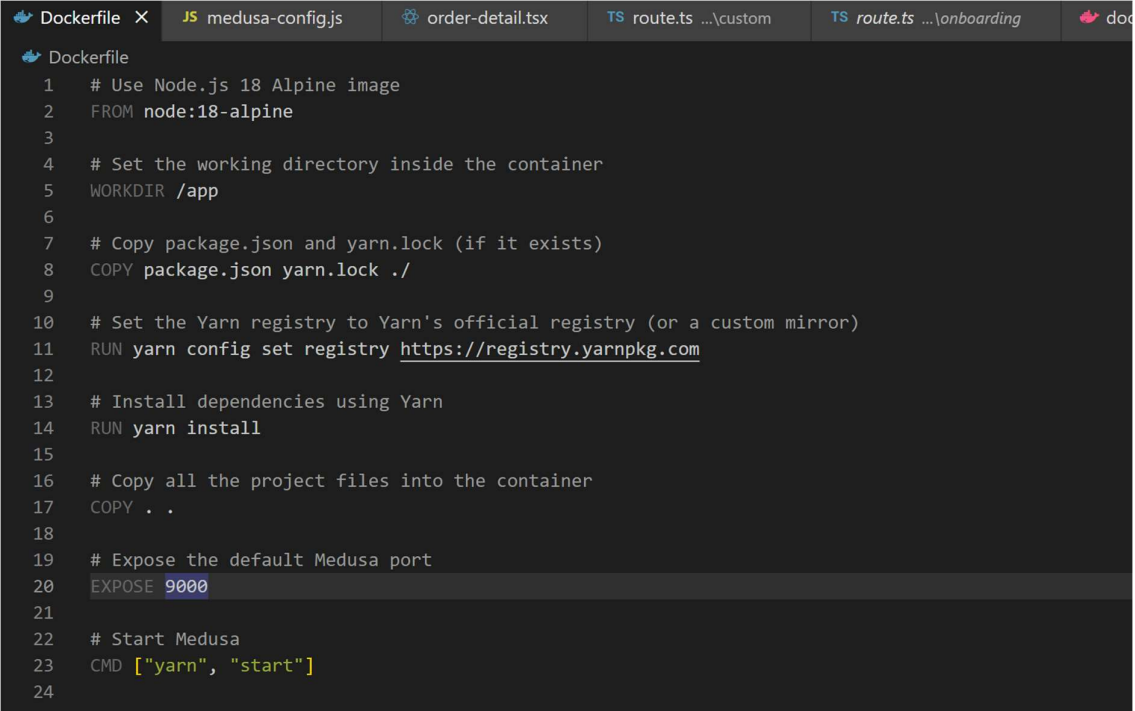
```
git clone https://github.com/Jaswanthredd/PearlThoughts_Internship.git
```

```
cd Medusa_backend
```

Step 3: Create a Dockerfile

Inside the Medusa directory, create a Dockerfile to containerize Medusa using yarn.

Dockerfile:

A screenshot of a code editor with a dark theme. The editor has several tabs at the top: 'Dockerfile' (active), 'medusa-config.js', 'order-detail.tsx', 'route.ts ...\custom', 'route.ts ...\onboarding', and 'doc'. The 'Dockerfile' tab is selected, showing a multi-line script. The script starts with a comment '# Use Node.js 18 Alpine image' and uses 'FROM node:18-alpine'. It sets the working directory to '/app' with 'WORKDIR /app'. Then it copies 'package.json' and 'yarn.lock' from the host to the container. Next, it sets the Yarn registry to 'https://registry.yarnpkg.com' using 'yarn config set registry'. It then runs 'yarn install' to install dependencies. All project files are copied into the container with 'COPY . .'. The default Medusa port '9000' is exposed. Finally, the container starts Medusa by running 'yarn start'.

Step 4: Build the Docker Image

Create a Docker image from the Dockerfile with the following command:

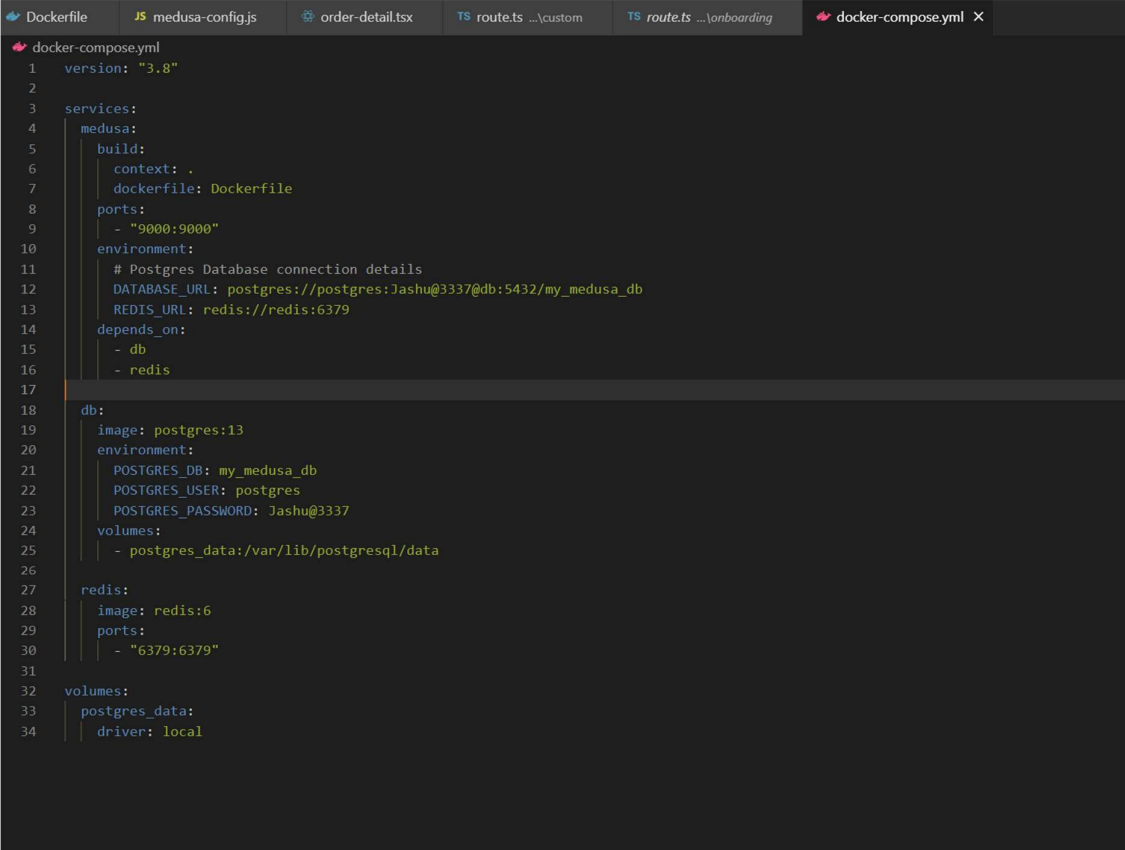
```
docker build -t <image-name> .
```

This command builds the Docker image with the tag medusa-server.

Step 5: Create a docker-compose.yml

To simplify running the container with dependencies like a database, create a docker-compose.yml file:

docker-compose.yml:



```
1 version: "3.8"
2
3 services:
4   medusa:
5     build:
6       context: .
7       dockerfile: Dockerfile
8     ports:
9       - "9000:9000"
10    environment:
11      # Postgres Database connection details
12      DATABASE_URL: postgres://postgres:Jashu@3337@db:5432/my_medusa_db
13      REDIS_URL: redis://redis:6379
14    depends_on:
15      - db
16      - redis
17
18    db:
19      image: postgres:13
20      environment:
21        POSTGRES_DB: my_medusa_db
22        POSTGRES_USER: postgres
23        POSTGRES_PASSWORD: Jashu@3337
24      volumes:
25        - postgres_data:/var/lib/postgresql/data
26
27    redis:
28      image: redis:6
29      ports:
30        - "6379:6379"
31
32 volumes:
33   postgres_data:
34     driver: local
```

This configuration starts three services:

- **Medusa:** The Medusa server built from the Dockerfile.
 - **Postgres:** A PostgreSQL database for Medusa.
 - **Redis:** A Redis instance.
-

Step 6: Run the Containers

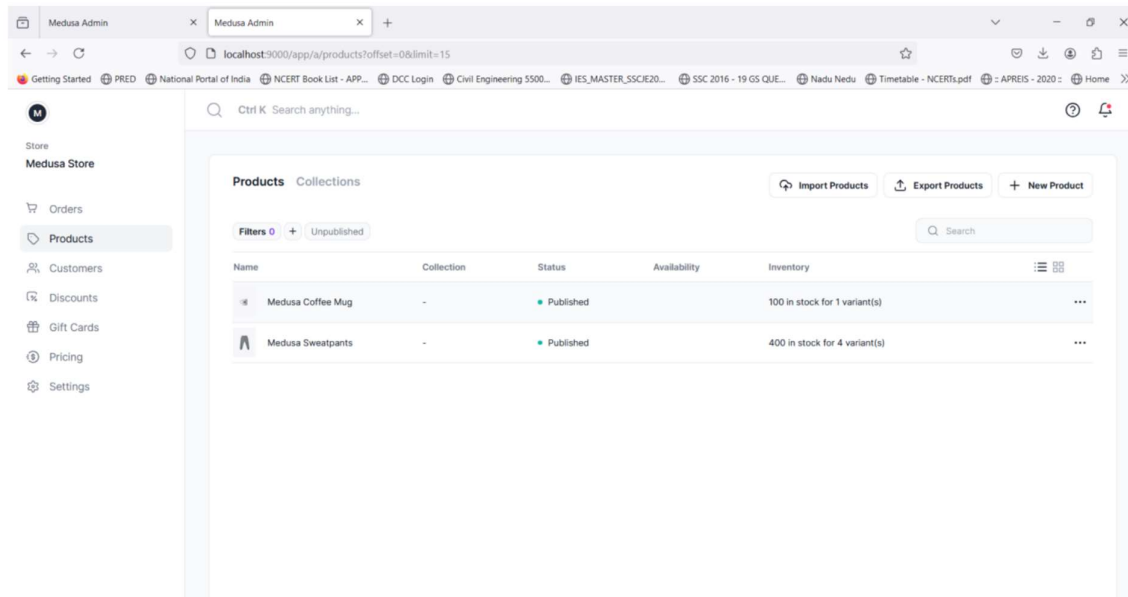
Start the containers with Docker Compose using this command:

docker-compose up

This command will start all the services defined in the docker-compose.yml file.

Step 7: Access Medusa

Once the containers are running, you can access Medusa at <http://localhost:9000>



Step 8: Access Medusa and Check Health

Check the application health by visiting the url <http://localhost:9000/health>



