
# National Textile University

## Department of Computer Science

**Subject**

**Operating system**

**Submitted to:**

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**Submitted by:**

Abdul Rehman

**Registration Number**

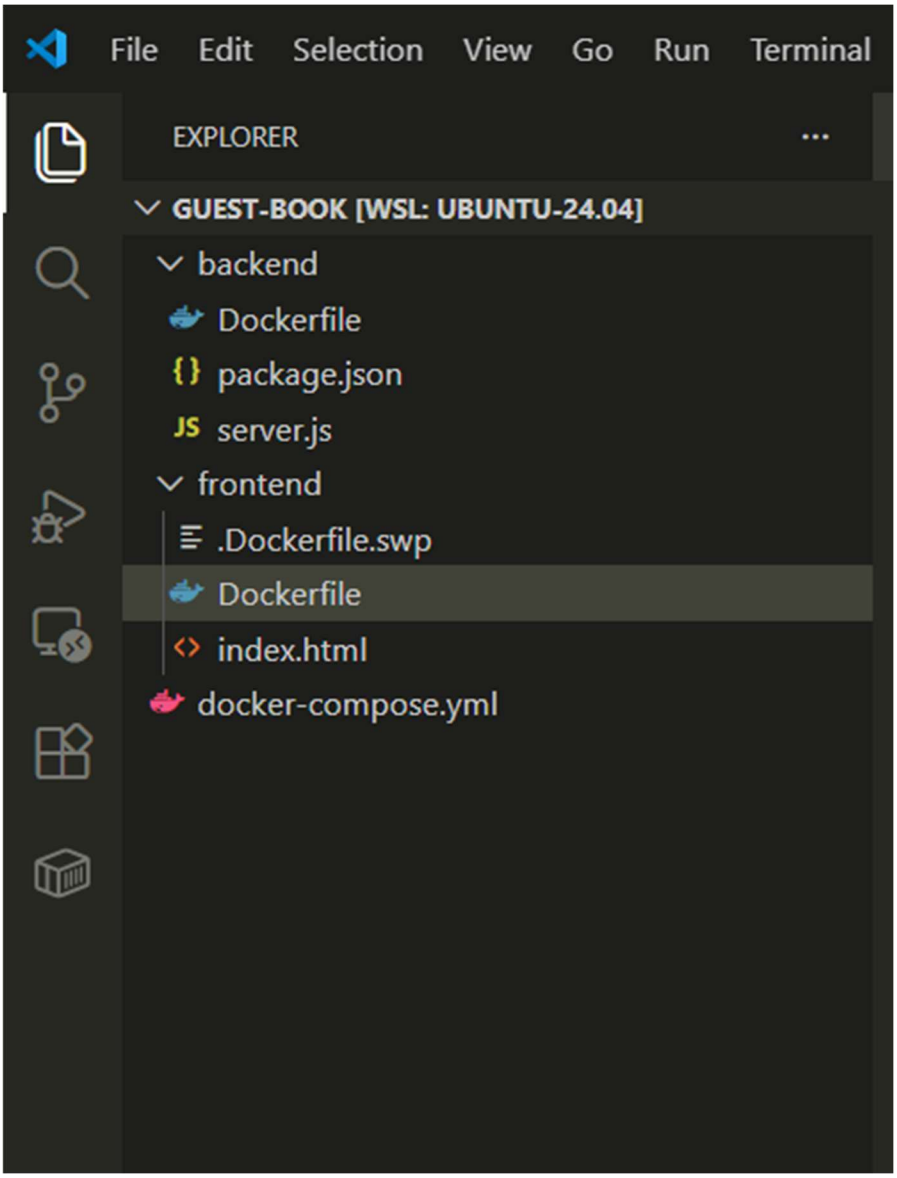
23-NTU-CS-1122

**Docker Home Task**

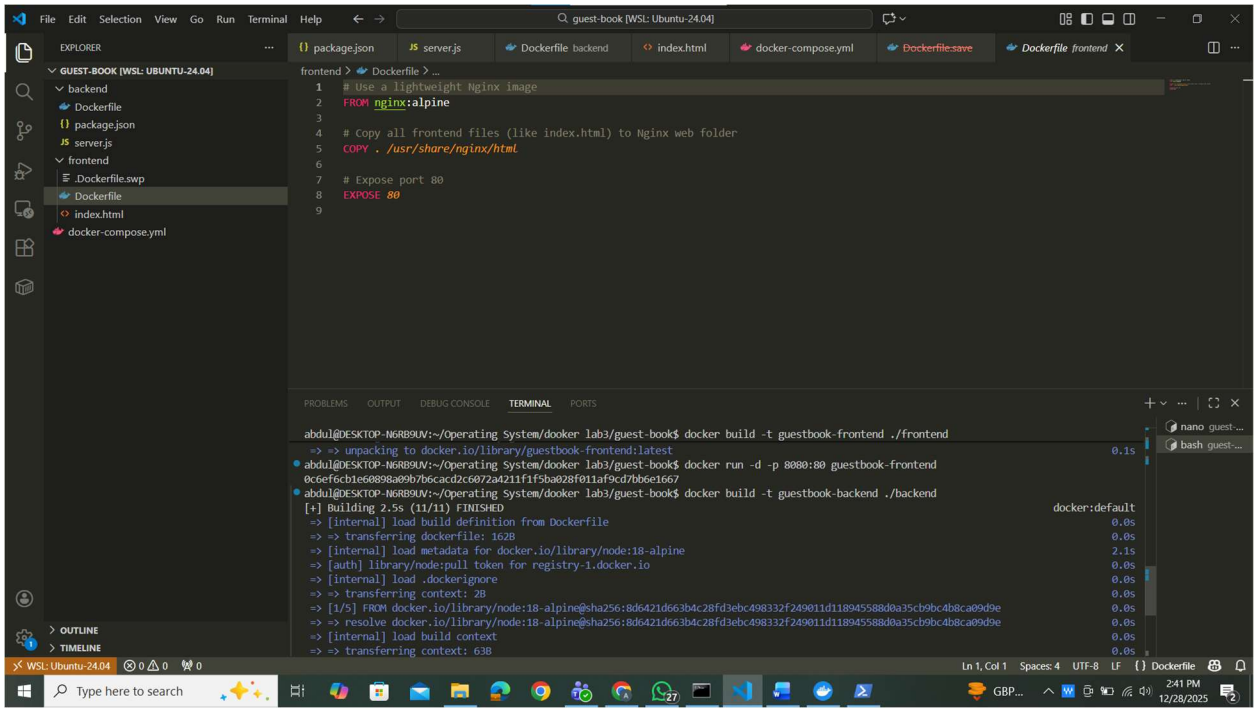
**Semester**

5th

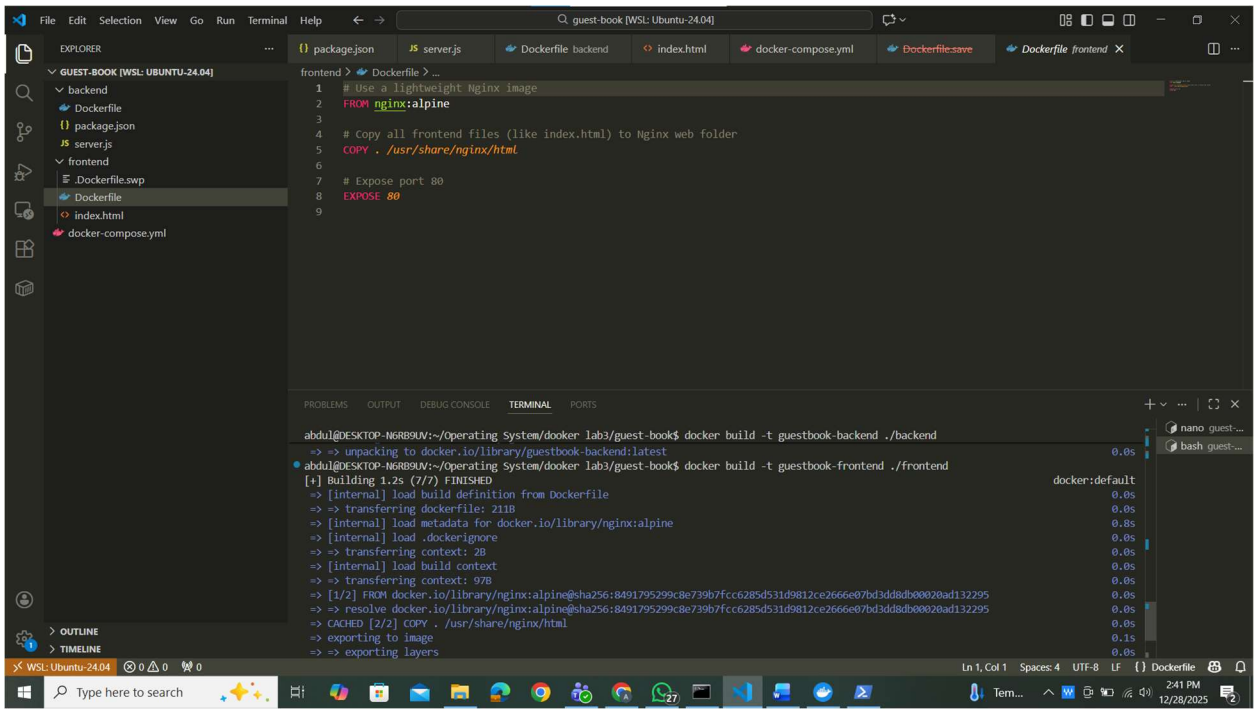
Whole project structure:



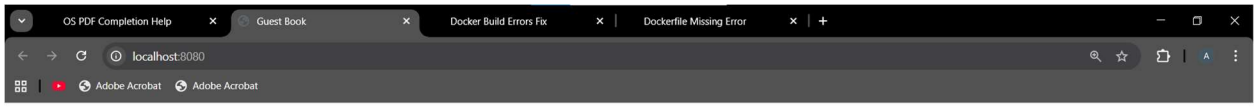

Backend image creation:




## Frontend image creation:




## Webpage ScreenShot:



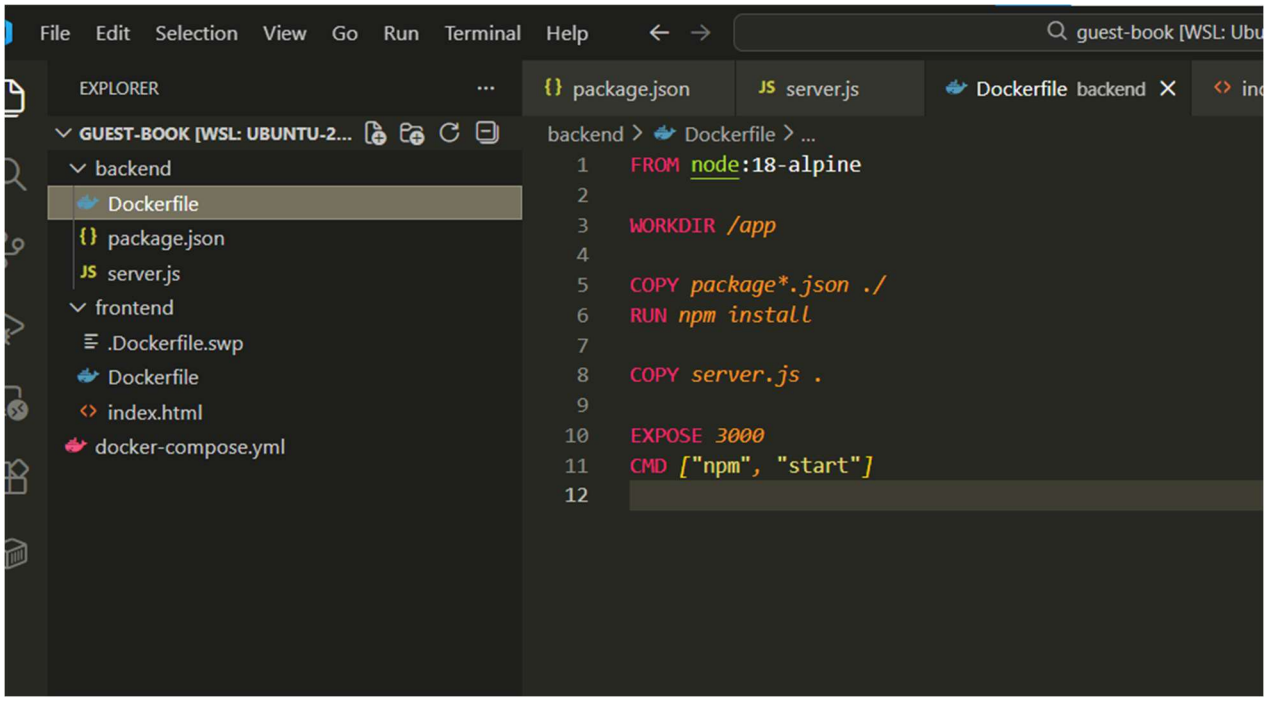

# Guest Book

Abdul Rahman 1122 | Good Evening | Send


## docker-compose.yml File Code:

```yaml
version: "3.8"

services:
  mongodb:
    image: mongo:7
    container_name: guestbook-db
    volumes:
      - mongo_data:/data/db
    networks:
      - guestbook-net

  api:
    build: ./backend
    container_name: guestbook-api
    environment:
      - MONGO_URL=mongodb://mongodb:27017/guestbook
    ports:
      - "3000:3000"
    depends_on:
      - mongodb
    networks:
      - guestbook-net

  web:
    build: ./frontend
    container_name: guestbook-web
    ports:
      - "8080:80"
    depends_on:
      - api
    networks:
      - guestbook-net

networks:
  guestbook-net:

volumes:
  mongo_data:

```

## Backend/Dockerfile:




## Frontend/Dockerfile: