

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Бэк-энд разработка

Отчет

Лабораторная работа

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Санкт-Петербург

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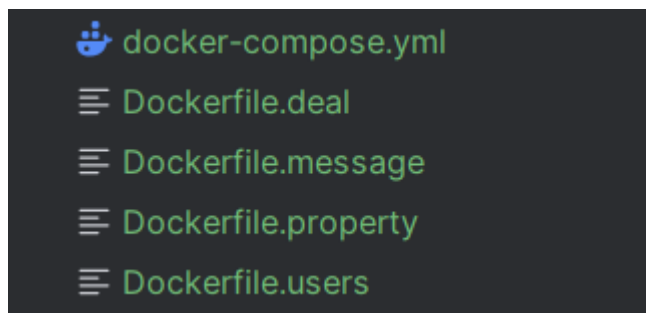
Задача

Завернуть приложение в докер

Ход работы

Нужно завернуть приложение в докер средствами докер и докер Компот

Структура:



Докеры:

```
services:
  users-service:
    build:
      context: .
      dockerfile: Dockerfile.users
    container_name: users-microservice
    ports:
      - "8877:8877"
    environment:
      - PORT=8877
    networks:
      - rental-network

  property-service:
    build:
      context: .
      dockerfile: Dockerfile.property
    container_name: property-microservice
    ports:
      - "8878:8878"
    environment:
      - PORT=8878
    networks:
      - rental-network
```

```
message-service:
  build:
    context: .
    dockerfile: Dockerfile.message
  container_name: message-microservice
  ports:
    - "8879:8879"
  environment:
    - PORT=8879
  networks:
    - rental-network

deal-service:
  build:
    context: .
    dockerfile: Dockerfile.deal
  container_name: deal-microservice
  ports:
    - "8880:8880"
  environment:
    - PORT=8880
  networks:
    - rental-network

db:
  image: postgres:17
  environment:
    POSTGRES_USER: postgres
    POSTGRES_PASSWORD: postgres
    POSTGRES_DB: postgres
  ports:
    - "5432:5432"
  volumes:
    - postgres_data:/var/lib/postgresql/data/

networks:
  rental-network:
    driver: bridge
```

```
FROM node:18-alpine AS builder
WORKDIR /app
COPY package*.json ./
RUN npm ci --only=production
COPY . .
RUN npm run build

FROM node:18-alpine
```

```
WORKDIR /app
COPY --from=builder /app/dist dist
COPY --from=builder /app/node_modules node_modules
EXPOSE 3004
CMD ["node", "dist/deal/main"]
```

```
FROM node:18-alpine AS builder
WORKDIR /app
COPY package*.json ./
RUN npm ci --only=production
COPY . .
RUN npm run build

FROM node:18-alpine
WORKDIR /app
COPY --from=builder /app/dist dist
COPY --from=builder /app/node_modules node_modules
EXPOSE 3002
CMD ["node", "dist/message/main"]
```

```
FROM node:18-alpine AS builder
WORKDIR /app
COPY package*.json ./
RUN npm ci --only=production
COPY . .
RUN npm run build

FROM node:18-alpine
WORKDIR /app
COPY --from=builder /app/dist dist
COPY --from=builder /app/node_modules node_modules
EXPOSE 3003
CMD ["node", "dist/property/main"]
```

```
FROM node:18-alpine AS builder
WORKDIR /app
COPY package*.json ./
RUN npm ci --only=production
COPY . .
RUN npm run build

FROM node:18-alpine
WORKDIR /app
COPY --from=builder /app/dist dist
COPY --from=builder /app/node_modules node_modules
EXPOSE 3001
CMD ["node", "dist/users/main"]
```

Вывод: Завернули все в докер