IMPORTANT NOTE ON DOCKER

We are using Docker-Postgres not local installed postgres so what's happening when you will restart the docker with this command docker-compose down then all data from table will be deleted or it will become empty. But we need to use Docker-Postgres because in future if we want to deploy in server or for CI/CD pipeline that time we need Docker-Postgres so to overcome the issue from losing of data every time we need to add

```
volumes:
  - postgres_data:/var/lib/postgresql/data
```

and

```
volumes:
  postgres_data:
```

inside our docker.compose file.

```
version: "3.8"

services:

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

  eureka-server:
    build: ./eureka-service-registry
    container_name: eureka-server
    restart: always
    ports:
      - "8761:8761"
    depends_on:
      - postgres-db
```

```yaml
api-gateway:
  build: ./api-gateway
  container_name: api-gateway
  restart: always
  ports:
    - "8080:8080"
  depends_on:
    - eureka-server

user-service:
  build: ./user-service
  container_name: user-service
  restart: always
  ports:
    - "8083:8083"
  depends_on:
    - eureka-server
    - postgres-db

product-service:
  build: ./product-service
  container_name: product-service
  restart: always
  ports:
    - "8081:8081"
  depends_on:
    - eureka-server
    - postgres-db
  environment:
    AWS_ACCESS_KEY: ${AWS_ACCESS_KEY}
    AWS_SECRET_KEY: ${AWS_SECRET_KEY}
    AWS_REGION: ${AWS_REGION}
    AWS_BUCKET_NAME: ${AWS_BUCKET_NAME}

cart-service:
  build: ./cart-service
  container_name: cart-service
  restart: always
  ports:
    - "8082:8082"
  depends_on:
    - eureka-server
    - postgres-db

order-service:
  build: ./order-service
  container_name: order-service
```

```yaml
    restart: always
    ports:
      - "8084:8084"
    depends_on:
      - eureka-server
      - postgres-db


  payment-service:
    build: ./payment-service
    container_name: payment-service
    restart: always
    ports:
      - "8085:8085"
    depends_on:
      - eureka-server
      - postgres-db
    environment:
      RAZORPAY_KEY_ID: ${RAZORPAY_KEY_ID}
      RAZORPAY_KEY_SECRET: ${RAZORPAY_KEY_SECRET}

volumes:
  postgres_data:
```

HOW TO MIGRATE DATA FROM LOCAL PSQL TO DOCKER PSQL?

- First take backup of you db from local psql.
- Make sure that docker psql is running: docker-compose up -d postgres-db
- Open cmd and run the below commands
  - docker cp "C:\Users\SandipMondal\OneDrive\Documents\advann_backup.dump" postgres-db:/advann_backup.dump
  - docker exec -it postgres-db pg_restore -U postgres -d advann_db --clean --if-exists /advann_backup.dump
  - docker exec -it postgres-db psql -U postgres -d advann_db -c "SELECT email FROM users;"
- After this in docker psql (Exec) tab we can check that data has been migrated or not
  - psql -U postgres -d advann_db
  - select email, password from users;

****Important command to stop and remove a broken container:

- **docker stop postgres-db**
- **docker rm postgres-db**