EatAndShare(Developer Documentation)

1. **Overview**

EatAndShare is a recipe-sharing web platform built with Spring Boot, Thymeleaf, and MySQL.
Users can:

- Register/login securely

- Upload recipes (including images)

- Add structured ingredients (name, quantity, unit)

- Browse and search recipes by category

2. **Installation Instructions**

I.   Download and install Java 21.

https://www.oracle.com/java/technologies/downloads/

II.   Download and install mysql Ver 8.0.43

https://downloads.mysql.com/archives/installer/

III.   Clone the project

```
git clone https://github.com/andriastheI/EatAndShare.git

cd EatAndShare
```

IV.   Configure mysql with the right database

```
$ mysql -u root -p


-- 1. Create the database
mysql> CREATE DATABASE cookbook;

-- 2. Create the user (local connection)
mysql>  CREATE USER 'blackfe'@'localhost' IDENTIFIED BY 'iampassword';

-- 3. Optional: allow remote access (any host)
mysql>  CREATE USER 'blackfe'@'%' IDENTIFIED BY 'iampassword';

-- 4. Grant full privileges to the new user
mysql> GRANT ALL PRIVILEGES ON cookbook.* TO 'blackfe'@'localhost' WITH GRANT OPTION;
mysql> GRANT ALL PRIVILEGES ON cookbook.* TO 'blackfe'@'%' WITH GRANT OPTION;

-- 5. Apply changes
mysql> FLUSH PRIVILEGES;

mysql> EXIT;
```
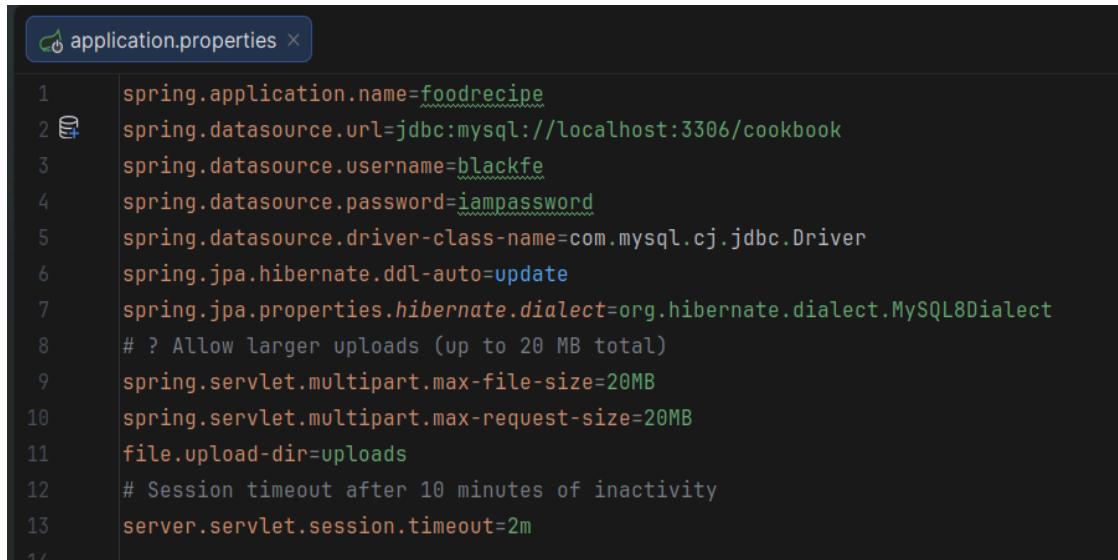
V.   Double check the application configuration located in
     "src/main/resources/application.properties" is configured like below

```
 application.properties ×
1    spring.application.name=foodrecipe
2    spring.datasource.url=jdbc:mysql://localhost:3306/cookbook
3    spring.datasource.username=blackfe
4    spring.datasource.password=iampassword
5    spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
6    spring.jpa.hibernate.ddl-auto=update
7    spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
8    # ? Allow larger uploads (up to 20 MB total)
9    spring.servlet.multipart.max-file-size=20MB
10   spring.servlet.multipart.max-request-size=20MB
11   file.upload-dir=uploads
12   # Session timeout after 10 minutes of inactivity
13   server.servlet.session.timeout=2m
14
```

VI.   Running gradlew.sh (Gradle Wrapper)
          1) For Linux / macOS (Unix-based system)
      a.   Open a terminal in the project directory:

```
cd path/to/EatAndShare
```

      b. Give execution permission(only needs to be done once):

```
chmod +x gradlew
```

      c. Run the application:

```
./gradlew bootRun
```

          2) For Windows (Command prompt or Powershell)
      a. Open Command Prompt or Powershell in the Project directory:

```
cd path/to/EatAndShare
```

      b. Run the application using the windows wrapper script:

```
gradlew.bat bootRun
```

The application will be available at http://localhost:8080 on any browser on your computer.