Containerizing the application using docker:

1. Dockerfile

```
1   FROM openjdk:22-oracle
2
3   # Set the working directory inside the container
4   WORKDIR /app
5
6   # Copy the JAR file into the container
7   COPY rms.jar /app/rms.jar
8
9   # Specify the command to run the JAR file
10  CMD ["java", "-jar", "rms.jar"]
```

2. Building image

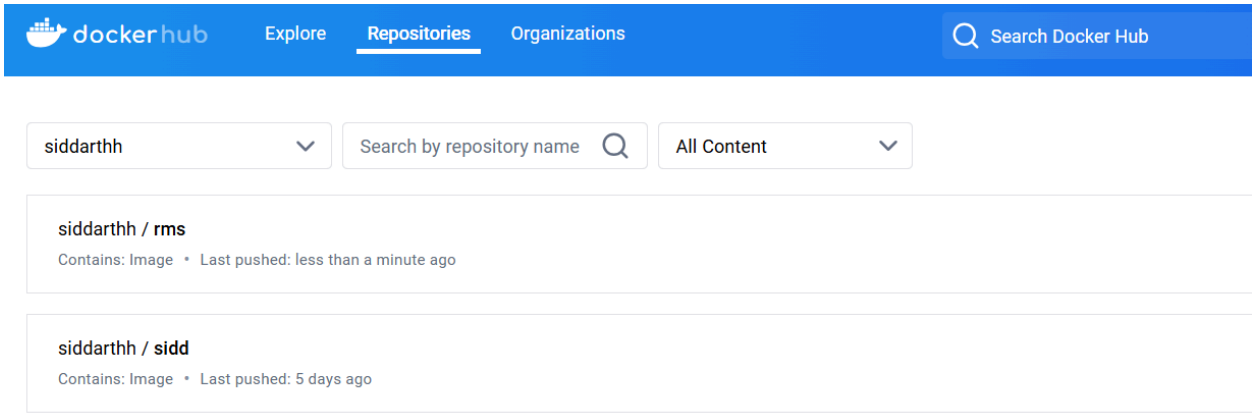
```
D:\rms>docker build -t siddarthh/rms:1.0 .
[+] Building 2.1s (8/8) FINISHED                                                    docker:desktop-linux
 => [internal] load build definition from Dockerfile                                              0.0s
 => => transferring dockerfile: 274B                                                              0.0s
 => [internal] load metadata for docker.io/library/openjdk:22-oracle                              0.0s
 => [internal] load .dockerignore                                                                 0.0s
 => => transferring context: 2B                                                                   0.0s
 => [1/3] FROM docker.io/library/openjdk:22-oracle                                                0.0s
 => [internal] load build context                                                                 1.9s
 => => transferring context: 34.24kB                                                              1.9s
 => CACHED [2/3] WORKDIR /app                                                                     0.0s
 => [3/3] COPY rms.jar /app/rms.jar                                                               0.0s
 => exporting to image                                                                            0.0s
 => => exporting layers                                                                           0.0s
 => => writing image sha256:0c119c154e5ff0e54151644c439a0e06a5195374ede8cea4039f90d3eb042901      0.0s
 => => naming to docker.io/siddarthh/rms:1.0                                                      0.0s
```

3. Running image

```
D:\rms>docker run -it siddarthh/rms:1.0
Restaurant Management System
1. Manage Users
2. Manage Menu Items
3. Manage Orders
4. Manage Order Details
5. Manage Reservations
6. Manage Restaurant Tables
7. Exit
Choose an option: 1
User Management
1. Create User
2. Read User
3. Update User
4. Delete User
5. List All Users
6. Back
Choose an option: 2
Enter User ID: 2
User not found.
User Management
1. Create User
2. Read User
3. Update User
4. Delete User
5. List All Users
6. Back
```

4. Creating tag and push the image to remote repository

```
D:\rms>docker push siddarthh/rms:1.0
The push refers to repository [docker.io/siddarthh/rms]
c4e78da85b9f: Layer already exists
0f4ad5ddd5d4: Layer already exists
6acaaba9e97a: Layer already exists
cf3ce83da20a: Layer already exists
0a628c3f1dfa: Layer already exists
1.0: digest: sha256:1d780ad429453d03c563e9888c1484a60d389253746c64fed327c253f9c518df size: 1369
```


docker hub
Explore
Repositories
Organizations
Search Docker Hub
siddarthh
Search by repository name
All Content
siddarthh / rms
Contains: Image • Last pushed: less than a minute ago
siddarthh / sidd
Contains: Image • Last pushed: 5 days ago