

Assignment8

```
I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\Dockefile - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
+ - 0

Dockefile
1 # Set the base image to OpenJDK 8
2 FROM openjdk:8-jdk-alpine
3
4 # Set the working directory to /app
5 WORKDIR /app
6
7 # Copy the packaged JAR file into the container at /app
8 COPY target/registrationservice-0.0.1-SNAPSHOT.jar /app
9
10 # Expose port 1111 to the Docker host
11 EXPOSE 1111
12
13 # Run the JAR file when the container starts
14 CMD ["java", "-jar", "registrationservice-0.0.1-SNAPSHOT.jar"]
15

Normal text file length: 397 lines: 15 Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 INS
```

```
C:\Windows\System32\cmd.exe
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ registrationservice ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 1 resource
[INFO] --- maven-compiler-plugin:3.10.1:compile (default-compile) @ registrationservice ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\classes
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ registrationservice ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\src\test\resources
[INFO] --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ registrationservice ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\test-classes
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ registrationservice ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ registrationservice ---
[INFO] Building jar: I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:2.7.10:repackage (repackage) @ registrationservice ---
[INFO] Replacing main artifact with repackaged archive
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ registrationservice ---
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\pom.xml to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.068 s
[INFO] Finished at: 2023-05-06T04:24:35+05:30
[INFO] -----
I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice>
```

```
C:\Windows\System32\cmd.exe
[INFO] --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ registrationservice ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\test-classes
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ registrationservice ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ registrationservice ---
[INFO] Building jar: I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:2.7.10:repackage (repackage) @ registrationservice ---
[INFO] Replacing main artifact with repackaged archive
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ registrationservice ---
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eduka-Assignments\registrationservice\pom.xml to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.pom
```

```

C:\Windows\System32\cmd.exe
[INFO] --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ registrationservice ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\target\test-classes
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ registrationservice ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ registrationservice ---
[INFO] Building jar: I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:2.7.10:repackage (repackage) @ registrationservice ---
[INFO] Replacing main artifact with repackaged archive
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ registrationservice ---
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\pom.xml to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.068 s
[INFO] Finished at: 2023-05-06T04:24:35+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice>docker build -t registrationservice -f Dockerfile .
[+] Building 3.6s (9/9) FINISHED
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 436B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8-jdk-alpine 1.9s
=> [auth] library/openjdk:pull token for registry-1.docker.io 0.0s
=> [internal] load build context 0.7s
=> => transferring context: 46.53MB 0.7s
=> [1/3] FROM docker.io/library/openjdk:8-jdk-alpine@sha256:94792824df2df33402f201713f932b58cb9de94a0cd524164a0f2283343547b3 0.0s
=> CACHED [2/3] WORKDIR /app 0.0s
=> [3/3] COPY target/registrationservice-0.0.1-SNAPSHOT.jar /app 0.0s
=> exporting to image 0.3s
=> => exporting layers 0.3s
=> => writing image sha256:ae00e1a2d367e589e5c22c154f99ebdf6a1a8b2df21ed752f78e098e5178ae23 0.0s
=> => naming to docker.io/library/registrationservice 0.0s

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice>

```

```

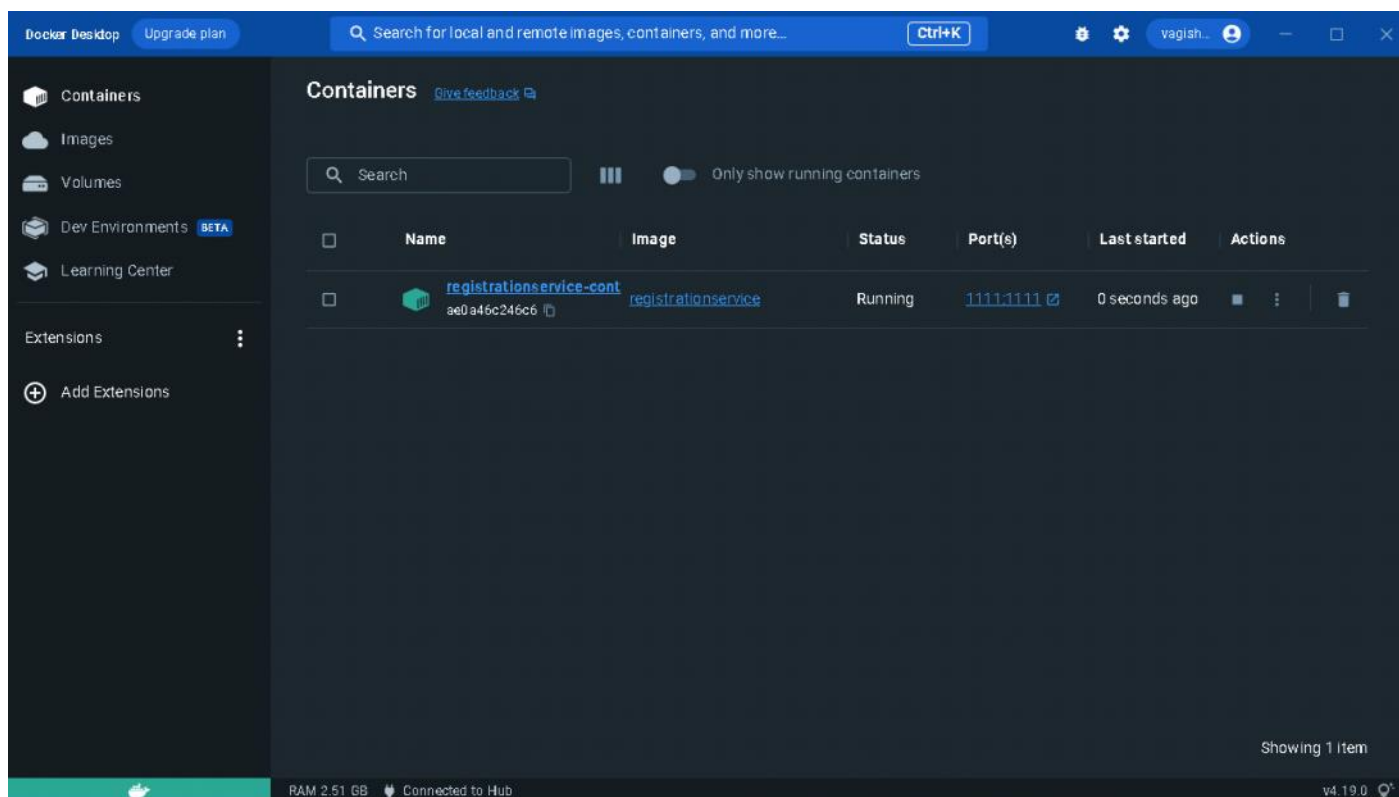
C:\Windows\System32\cmd.exe
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ registrationservice ---
[INFO] Tests are skipped.
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ registrationservice ---
[INFO] Building jar: I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] --- spring-boot-maven-plugin:2.7.10:repackage (repackage) @ registrationservice ---
[INFO] Replacing main artifact with repackaged archive
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ registrationservice ---
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\target\registrationservice-0.0.1-SNAPSHOT.jar to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.jar
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice\pom.xml to C:\Users\w10\.m2\repository\com\vagish\edureka\registrationservice\0.0.1-SNAPSHOT\registrationservice-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.068 s
[INFO] Finished at: 2023-05-06T04:24:35+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice>docker build -t registrationservice -f Dockerfile .
[+] Building 3.6s (9/9) FINISHED
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 436B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8-jdk-alpine 1.9s
=> [auth] library/openjdk:pull token for registry-1.docker.io 0.0s
=> [internal] load build context 0.7s
=> => transferring context: 46.53MB 0.7s
=> [1/3] FROM docker.io/library/openjdk:8-jdk-alpine@sha256:94792824df2df33402f201713f932b58cb9de94a0cd524164a0f2283343547b3 0.0s
=> CACHED [2/3] WORKDIR /app 0.0s
=> [3/3] COPY target/registrationservice-0.0.1-SNAPSHOT.jar /app 0.0s
=> exporting to image 0.3s
=> => exporting layers 0.3s
=> => writing image sha256:ae00e1a2d367e589e5c22c154f99ebdf6a1a8b2df21ed752f78e098e5178ae23 0.0s
=> => naming to docker.io/library/registrationservice 0.0s

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice>docker run -d -p 1111:1111 --name registrationservice-container registrationservice
ae0a46c246c69de498a6e536716bb0f50625aa7af830519cd406e03a0d3bdca9

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\registrationservice>

```



```

1 # Set the base image to OpenJDK 8
2 FROM openjdk:8-jdk-alpine
3
4 # Set the working directory to /app
5 WORKDIR /app
6
7 # Copy the packaged JAR file into the container at /app
8 COPY target/studentms.jar /app
9
10 # Expose port 8082 to the Docker host
11 EXPOSE 8082
12
13 # Run the JAR file when the container starts
14 CMD ["java", "-jar", "studentms.jar"]
15

```

Normal text file | length: 347 | lines: 15 | Ln: 1 | Col: 1 | Pos: 1 | Windows (CR LF) | UTF-8 | INS

```

C:\Windows\System32\cmd.exe
[INFO] Compiling 1 source file to I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ StudentMS ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ StudentMS ---
[INFO] Building jar: I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master\target\studentms.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.6.3:repackage (repackage) @ StudentMS ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ StudentMS ---
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master\target\studentms.jar to C:\Users\w10\.m2\repository\StudentMS\StudentMS\0.0.1-SNAPSHOT\StudentMS-0.0.1-SNAPSHOT.jar
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master\pom.xml to C:\Users\w10\.m2\repository\StudentMS\StudentMS\0.0.1-SNAPSHOT\StudentMS-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.747 s
[INFO] Finished at: 2023-05-06T04:32:01+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>

```

```

C:\Windows\System32\cmd.exe
[INFO] Installing I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master\pom.xml to C:\Users\w10\.m2\repository\StudentMS\StudentMS\0.0.1-SNAPSHOT\StudentMS-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.747 s
[INFO] Finished at: 2023-05-06T04:32:01+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>docker build -t studentms -f Dockerfile .
[+] Building 4.5s (8/8) FINISHED
=> [internal] load .dockerignore 0.4s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.2s
=> => transferring dockerfile: 386B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8-jdk-alpine 1.3s
=> [internal] load build context 1.0s
=> => transferring context: 65.57MB 0.8s
=> [1/3] FROM docker.io/library/openjdk:8-jdk-alpine@sha256:94792824df2df33402f201713f932b58cb9de94a0cd524164a0f 0.0s
=> CACHED [2/3] WORKDIR /app 0.0s
=> [3/3] COPY target/studentms.jar /app 1.4s
=> exporting to image 0.4s
=> => exporting layers 0.4s
=> => writing image sha256:ab1be0aa458d53ac4154d7080c2fd307f2d66f4b20910f2336d27553f73e7a39 0.0s
=> => naming to docker.io/library/studentms 0.0s

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>

```

```

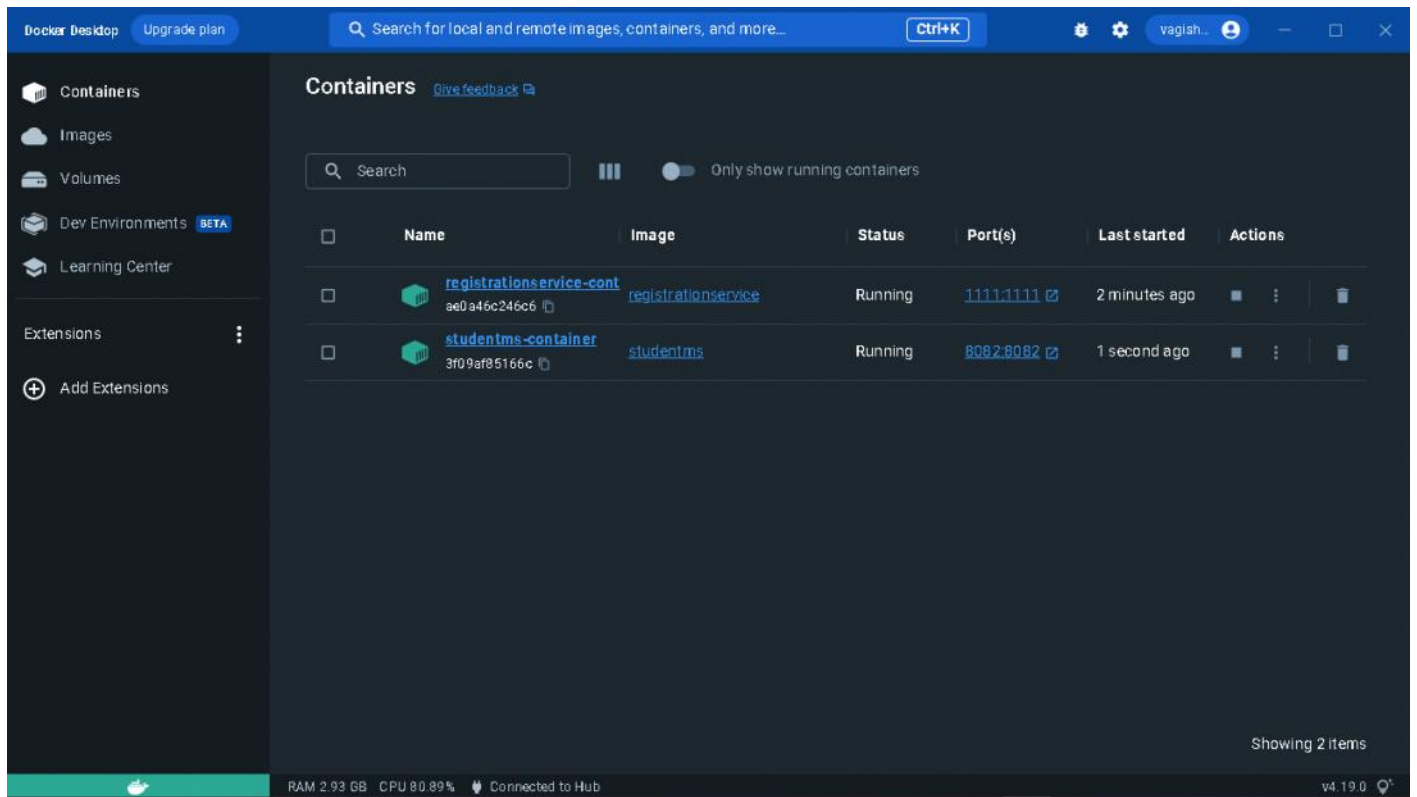
C:\Windows\System32\cmd.exe
[INFO] -----
[INFO] Total time: 4.747 s
[INFO] Finished at: 2023-05-06T04:32:01+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>docker build -t studentms -f Dockerfile .
[+] Building 4.5s (8/8) FINISHED
=> [internal] load .dockerignore 0.4s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.2s
=> => transferring dockerfile: 386B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8-jdk-alpine 1.3s
=> [internal] load build context 1.0s
=> => transferring context: 65.57MB 0.8s
=> [1/3] FROM docker.io/library/openjdk:8-jdk-alpine@sha256:94792824df2df33402f201713f932b58cb9de94a0cd524164a0f 0.0s
=> CACHED [2/3] WORKDIR /app 0.0s
=> [3/3] COPY target/studentms.jar /app 1.4s
=> exporting to image 0.4s
=> => exporting layers 0.4s
=> => writing image sha256:ab1be0aa458d53ac4154d7080c2fd307f2d66f4b20910f2336d27553f73e7a39 0.0s
=> => naming to docker.io/library/studentms 0.0s

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>docker run -d -p 8082:8082 --name studentms-c
ontainer studentms
3f09af85166cf936930f188ae72b7aca0b0771424e7b692e3ab743b41f88655c

I:\Workspace\EclipseWorkspace\TempWorkspaces\Eureka-Assignments\Student-Database-Management-System-using-JAVA-Spring-Boot-master\Student-Database-Management-System-using-JAVA-Spring-Boot-master>

```



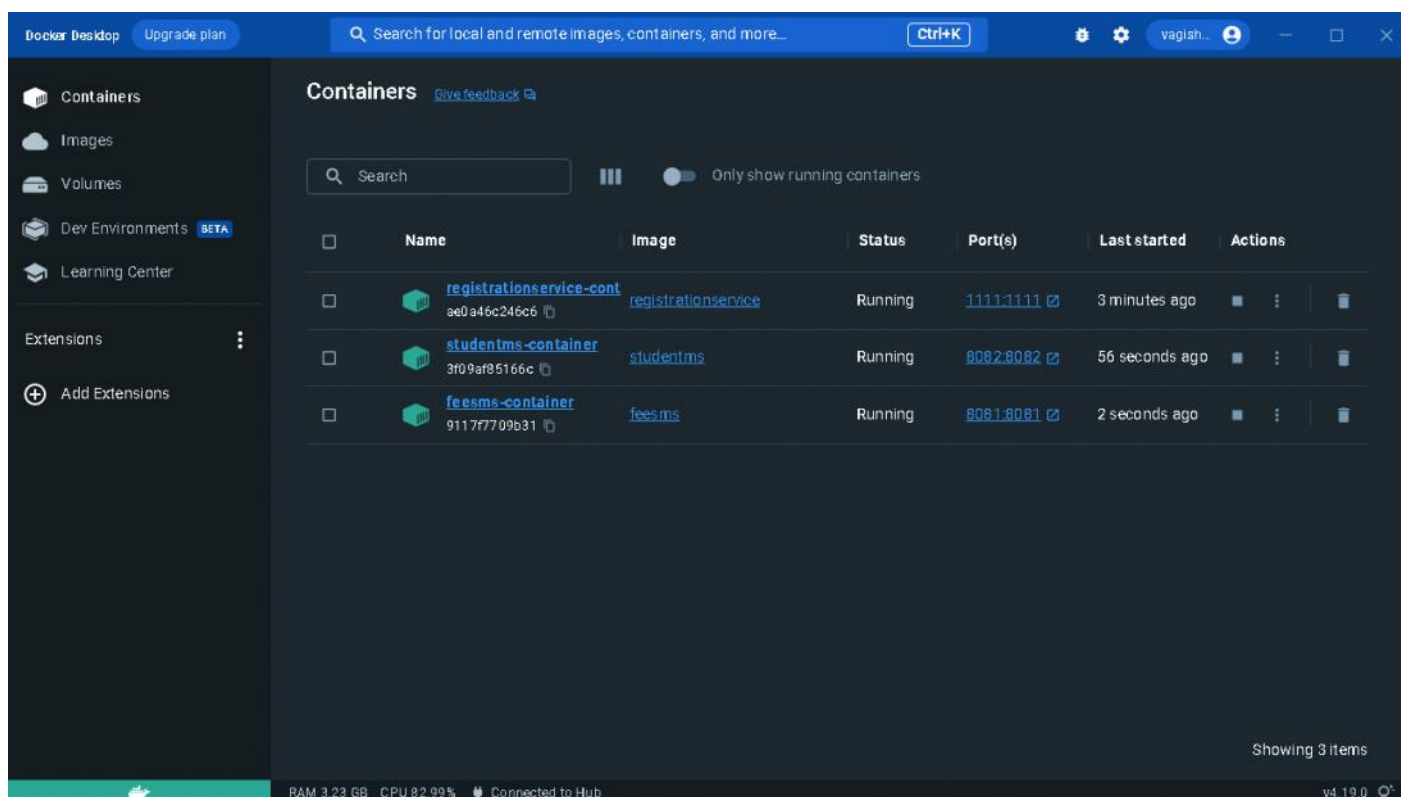
```
I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\Feesms\Dockerfile - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window 2
Dockerfile Dockerfile Dockerfile
1 # Set the base image to OpenJDK 8
2 FROM openjdk:8-jdk-alpine
3
4 # Set the working directory to /app
5 WORKDIR /app
6
7 # Copy the packaged JAR file into the container at /app
8 COPY target/feesms-0.0.1-SNAPSHOT.jar /app
9
10 # Expose port 8081 to the Docker host
11 EXPOSE 8081
12
13 # Run the JAR file when the container starts
14 CMD ["java", "-jar", "feesms-0.0.1-SNAPSHOT.jar"]
15
Normal text file length: 371 lines: 15 Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 INS
```

```
C:\Windows\System32\cmd.exe
pository\com\vagish\edureka\feesms\0.0.1-SNAPSHOT\feesms-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.771 s
[INFO] Finished at: 2023-05-06T04:24:47+05:30
[INFO] -----

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\feesms>docker build -t feesms -f Dockerfile .
[+] Building 4.1s (8/8) FINISHED
=> [internal] load build definition from Dockerfile                                0.5s
=> => transferring dockerfile: 410B                                              0.0s
=> [internal] load .dockerignore                                                  0.5s
=> => transferring context: 2B                                                  0.0s
=> [internal] load metadata for docker.io/library/openjdk:8-jdk-alpine          0.4s
=> [1/3] FROM docker.io/library/openjdk:8-jdk-alpine@sha256:94792824df2df33402f201713f932b58cb9de94a0cd524164a0f 0.0s
=> CACHED [2/3] WORKDIR /app                                                    0.0s
=> [internal] load build context                                                  1.1s
=> => transferring context: 65.57MB                                              1.1s
=> [3/3] COPY target/feesms-0.0.1-SNAPSHOT.jar /app                            0.6s
=> exporting to image                                                           1.4s
=> => exporting layers                                                            1.0s
=> => writing image sha256:ef6c8e39cf0f9f6191e28fbb6c6ca8b4393ed66f09ee93e9e6e94025aa9a1854 0.1s
=> => naming to docker.io/library/feesms                                       0.3s

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\feesms>docker run -d -p 8081:8081 --name feesms-contain
er feesms
edb435c5550ba2780db3b5f0151c770f493e52e5b838c92eb793226896a9d310

I:\Workspace\EclipseWorkspace\TempWorkspaces\Edureka-Assignments\feesms>
```



Eureka

Student List

Not secure | 192.168.56.1:1111

Data centerdefault

Uptime00:02

Lease expiration enabledfalse

Renews threshold5

Renews (last min)0

DS Replicas

localhost

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
FEESMS	n/a (1)	(1)	UP (1) - 9117f7709b31.feesms:8081
STUDENTMS	n/a (1)	(1)	UP (1) - 3f09af85166c.studentms:8082

General Info

Name	Value
total-avail-memory	297mb
num-of-cpus	4

Eureka

Student List

Not secure | 192.168.56.1:8082/students

Student List

Students

Id	Student Name	Fees ID	Action	Update Name
5	Vagish	11	Delete Student	<div>Update NameUpdate</div> <div>0Update</div>
12	Vag2	10	Delete Student	<div>Update NameUpdate</div> <div>0Update</div>

Add new Student

Fee List

ID

Search

Single Student Details by ID

Id	Student Name	Fees ID	Action
5	Vagish	11	Delete Student

Student List

Fee List

Fees List

Fees

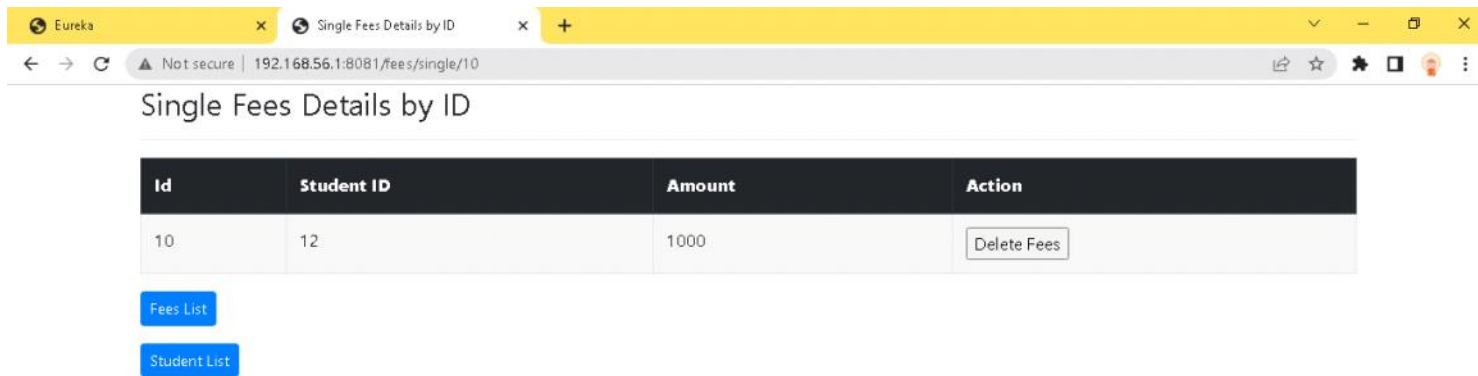
Fees ID	Student ID	Amount	Action	Update Amount
10	12	1000	Delete Fees	<input type="text" value="0"/> Update Amount <input type="text" value="0"/> Update Student ID
11	5	200	Delete Fees	<input type="text" value="0"/> Update Amount <input type="text" value="0"/> Update Student ID

Add new Fees

Student List

ID

Search



Uploaded PDF with consolidated Screenshots to create Student MS, Eureka Registry Service and Client Side Load Balancer to perform all the mentioned Tasks.

Also, all the related Maven Codes, result Screenshot PDF is saved on GIT Repo:

<https://github.com/Vagish619/Edureka-Microservices.git>

Branch Name:

Assignments_And_Projects