In the documented flow, the simple Spring Boot Web app is created. The app runs in a docker container and connects through “link” mechanism to MySql container that was created previously. The app exposes simple REST API to get and create users. Users are stored in MySql container.

1.

Under docker/boot-mysql put the JAR and Dockerfile from docker directory of this mini project.

Contents of the docker file ---

FROM java:8-jre

ADD boot-mysql-0.0.1-SNAPSHOT.jar /app/

CMD ["java", "-jar", "/app/boot-mysql-0.0.1-SNAPSHOT.jar"]

EXPOSE 8000

2.

To build the web app image, use the following from docker/boot-mysql directory ---sudo docker build -t shpboris/bootmysql .

3.

To start container, use --- sudo docker run --name bootmysql --link demo-mysql:db -p 8000:8000 -d shpboris/bootmysql

While name of the image out of which container should be created = shpboris/bootmysql , name of web app container = bootmysql, name of MySql container = demo-mysql, name of the link = db , exposed web app port = 8000.

The datasource url of web app should use the name of the link from above instruction – i.e db !!!. Like here (see in red) - spring.datasource.url=jdbc:mysql://**db**:3306/demo.

4.

To verify that container has already started, use --- sudo docker logs -f bootmysql

5.

Pay attention, that DB name, user name and password from datasource should match those of the started DB container. See docker\my-sql-setup mini project folder for details on setting up DB container.

For convenience – here is the datasource of the web app.

server.port = 8000

server.contextPath=/boot-mysql

spring.jpa.show-sql=true

spring.jpa.hibernate.ddl-auto=update

spring.jpa.database-platform=org.hibernate.dialect.MySQL5InnoDBDialect

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

spring.datasource.url=jdbc:mysql://db:3306/demo

spring.datasource.username=demo\_user

spring.datasource.password=demo\_pass

6.

The exposed REST API is

1.

Create user –

POST to <http://localhost:8000/boot-mysql/users>

Body

{

"id" : "2",

"name" : "2"

}

2.

Get users –

GET on <http://localhost:8000/boot-mysql/users>