@Repository annotation missing in UserRepository interface.

Controller class itself is missing.

Web starter missing

Few annotation in main class missing to enable jpa and entity annotation.

JPA Project with CRUD Operation

We will create docker compose file which contains two container

Spring boot (JPA)

Mysql database

After created spring boot project we need to create the jar file.

If we run mysql container using docker. That container running on virtual OS. Spring boot is running on local machine. They can’t communicate.

whenever we create spring boot project with spring initializer it will add default starter as testing.

Create spring boot project and test it locally.

Then create jar file

Then create docker-compose file and test locally.

Ie spring boot and mysql container running or not.

Now push this project in git hub account.

Now login to AWS account and create EC2 instance.

By default ec2 instance open only 22 port number we need to open our application port number

9191 spring boot

3307 mysql container

8080 Jenkin

Connect ec2 instance

Then we need to install required software.

1. Git : it is use to pull the project from git hub account.

**sudo yum install git -y**

1. Pull the project from git hub account in EC2 instance.
2. Now install the docker

**sudo yum install docker**

**sudo service docker start**

1. Now install docker compose

This command is use to download the file

**sudo curl -L https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose**

give the permission

**sudo chmod +x /usr/local/bin/docker-compose**

now run the docker-compose file using below command as

**sudo docker-compose up --build**

[www.akash.com](http://www.akash.com)

to run the project with Jenkins

first install java

**sudo yum install java**

then install jenkin

Now, to download the latest Jenkins package

-->sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat/jenkins.repo

\*\*iv. \*\*To enable the installation of the package, import the key file from Jenkins-CI:

--->sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

or

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

Install Jenkins on the EC2 instance

---->sudo yum install jenkins

To start the Jenkins service

---->sudo service jenkins start

To restart the jenkin

----> sudo service jenkins restart

to check the status

-----> sudo systemctl status jenkins

This one is get the password

sudo cat /var/lib/jenkins/secrets/initialAdminPassword