TASK 5 - Maven Creation

Step 1: Creating folder

Create a folder and clone the repository

```
supportherupanth-debian: $ sudo su
[sudo] password for suppanth# mkdir maven
root@supanth-debian:/home/suppanth# mkdir maven
root@supanth-debian:/home/suppanth# mkdir maven
root@supanth-debian:/home/suppanth# mkdir maven
root@suppanth.mome/suppanth# mkdir maven
root@suppanth.mome/suppanth# mkdir maven
Reading package lists... Done
Reading state information... Done
Reading state information... Done
git is already the newst version (12.39.5-0-debizuz).

0 upgraded, 0 enewly installed, 0 to zenove and 0 not upgraded.
```

Step 2: Installing maven

Installing maven using -- sudo apt install maven

```
root8suganth-deblan:/home/suganth/maven# git clone https://github.com/AranganathanPrakash/spring-framework-petclinic.git
Cloning into 'spring-framework-petclinic'...
remote: Enumerating objects: 7393, done.
remote: Counting objects: 100% (1819/119), done.
remote: Countrag objects: 100% (1819/61), done.
remote: Countrag objects: 100% (1819/61), done.
remote: Countrag objects: 100% (1819/61), done.
remote: Total 7359 (delta 1062), reused 1033 (delta 1033), pack-reused 6240 (from 1)
Recelving objects: 100% (1839/7359), 3.12 /MB | 3.71 MIB/s, done.
Recelving objects: 100% (1839/7359), 3.12 /MB | 3.71 MIB/s, done.
Resolving deltas: 100% (1830/3602), done.
root8suganth-deblan:/home/suganth/maven# is
spring-framework-petclinic
root8suganth-deblan:/home/suganth/maven# od spring-framework-petclinic
root8suganth-deblan:/home/suganth/maven# ypring-framework-petclinic# apt install openjdk-17-jdk -y
Reading package lists... Done
Reading state information... Done
Reading state information... Done
Reading state information... Done
Reading state information... Done
```

Step 3: Testing

Test the maven

```
Description of the project.

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3 canning to project.

4 canning to project.

5 canning to project.

5 canning to project.

5 canning to project.

5 canning to project.

6 canning the central. https://repo.naven.apache.org/naven/conffaterani/jackson-box/2.16.1/jackson-box/2.16.1.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jackson-jackson-parent/2.16/jackson-parent/2.16.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jackson-parent/2.16/jackson-parent/2.16.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jackson-parent/2.16/jackson-parent/2.16.pox

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5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.16/jackson-parent/2.16.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.16/jackson-parent/2.11.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.11.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.11.pox

5 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.11.jaccon-naven-plugin-8.8.11.pox

6 com-loading from central. https://repo.naven.apache.org/naven/conffaterani/jacksun-parent/2.10.pox

5 com-loading from central. https://repo.naven.apache.or
```

Step 4: Clean

Clean the maven

```
Tooltogranth-delian://now/uganth/naver/spring-framework.petclinic# wn clean
(a) Centing for projects...
(b) Centing for projects...
(c) Centin
```

Step 5: Login in docker

Login in the docker using the username

```
root@suganth-debian:/home/suganth/maven/spring-framework-petclinic# docker login -u suganth#7

Info - A Personal Access Token (PAT) can be used instead.
To create a PAT, visit <a href="https://app.docker.com/settings">https://app.docker.com/settings</a>

Password:

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://doc.socker.com/go/credential-store/
Login Succeeded
root@suganth-debian:/home/suganth/maven/spring-framework-petclinic#
```

Step 6: Push

Push the image inside the docker

```
zoot8suganth-deblan:/home/suganth/mavern/spring-framework-petclinic# docker tag petclinic suganth#7/petclinic
zoot8suganth-deblan:/home/suganth/mavern/spring-framework-petclinic# docker push suganth#7/petclinic
Using default tag: latest
Using default t
```

Step 7: Minikube

Start the minikube

```
minikube v1.35.0 on Debian 12.10

↓ Using the docker driver based on existing profile

↓ Starting "minikube" primary control-plane node in "minikube" cluster

⊅ Pulling base image v0.0.46 ...

⊅ Updating the running docker "minikube" container ...

♥ Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...

♥ Verifying Kubernetes v3.32.0 on Docker 27.4.1 ...

↓ Verifying Kubernetes v3.00 concerned to the value of the value
```

Step 8: Deployment creation

Create a deployment named petclinic

```
ugantheruganth-debian: $ kubectl create deployment petclinic --image=suganth07/petclinic
deployment.apps/petclinic created
```

Step 9: Deployment exposure

Expose the deployment in the kubectl

```
suganthdsuganth-debian: $ kubectl expose deployment petclinic --port=8080 service/petclinic exposed
```

Step 10: Service

Check the service of the petclinic webpage



Step 11: Output

The output page is displayed in the localhost:44929

