## **ASSIGNMENT 3**

## **STEPS:**

**Step 1:** Clone the Repository

Step 2: Build the Docker Image

docker build -t e-commerce-app.

Step 3: Start Minikube

minikube start --force

minikube status

Step 4: Load the Docker Image into Minikube

minikube image load e-commerce-app

Verify the image is loaded:

minikube image list # Ensure "e-commerce-app" is listed

**Step 5:** Deploy the Application

kubectl apply -f deployment.yml

kubectl get deployments

kubectl get pods

If you need a NodePort service, apply it:

kubectl apply -f Nodeport.yaml

**Step 6:** Fix Image Pull Issues (if necessary)

If Kubernetes tries to pull the image from a registry instead of using the local

image, patch the deployment kubectl patch deployment react-ecommerce-

deployment --type='json' p='[{"op": "replace", "path":

"/spec/template/spec/containers/0/imagePullPolicy", "value": "Never"}]'

**Step 7:** Expose the Service & Access the App

minikube ip

minikube service react-ecommerce-service

## Step 8:

Push to Git:
git init # If not already initialized git
add Dockerfile deployment.yml
Nodeport.yaml
git commit -m "Kubernetes deployment for React e-commerce app"
git remote add origin
git branch -M main
git push -u origin main

## **OUTPUT:**

```
| Description |
```

```
### Annument of dockers in / Library / Commerce ### Annument |

### Annument |
```

```
docker.in/a/lbrary/e-commerce-app:latest
parinitha/lbrary/e-commerce-app:latest
parinitha/lbrary/e-commerce-app:latest
parinitha/lbrary/e-commerce-deployment created
parinitha/lbstKOP-Q6F8SSP1-/E-commerce kubectl get deployments
NAME
PERADY UP-10-DATE AVAILABLE AGE
react-ecommerce-deployment 6/2 2 0 10:8
mebapp
mebapp
mebaps
meba
```

192.168.49.2	SKTOP-Q6FBS5F	NodePort :~/E-Commerc	CLUSTER-IP 10.96.0.1 10.105.33.19 10.97.145.220 \$ minikube ip c\$ minikube serv	EXTERNAL-IP <none> <none> <none> vice react-eco</none></none></none>	PORT(S) 443/TCP 80:30007/TCP 80:30446/TCP	AGE 2d22h 30m 3h33m
ce-service						
ce-service     NAMESPACE 	NA		TARGET PORT			

