DEVOPS

ASSIGNMENT3

**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:**











