TASK – 3 MINIKUBE DEPLOYMENT TASK

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STEP 1: Start Minikube

Start the Minikube cluster using the following command:

minikube start

This initializes the Minikube cluster using Docker as the driver.

STEP 2: Install Kubectl

Since kubectl is not found,install it with the following command:

sudo snap install kubectl –classic

Alternatively, you can download it using curl:

curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl" sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

STEP 3: Verify kubectl Installation

Check the client version to confirm successful installation:

Kubectl version -client

STEP 4: Create a Deployment

Create a deployment named `r2` with the image 'sindhukavikumar/sample1':

kubectl create deployment r2 --image=sindhukavikumar/sample1 --port=80

STEP 5: Expose the Deployment
Expose the deployment as a NodePort service:
kubectl expose deployment r2 --port=80 --type=NodePort

STEP 6: Verify the Pod

Check the running pods:

kubectl get pods

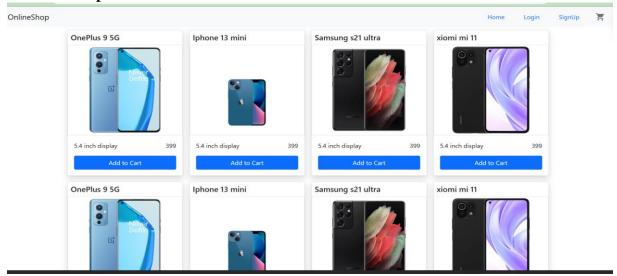## Step 7: Access the Service

Expose the service using Minikube and get the URL:

minikube service r2

STEP 8: Output in the Web Browser

DockerHub: