**TASK 3**

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**Task**-kubernetes-Based E-Commerce Application :Develop and deploy a basic e-commerce application using Kubernetes. The project involves containerizing the application components. (tools: kubernetes, Docker)

**PROCEDURE**1. Clone the Repository – Clone the e-commerce repository and navigate into the project folder.

2. Build the Docker Image – Create a Docker image for the application.

3. Start Minikube – Initialize Minikube and check its status.

4. Load the Docker Image into Minikube – Ensure the image is available in Minikube.

5. Deploy the Application – Apply the deployment configuration and verify the deployment and running pods.

6. Apply a NodePort Service (if required) – Deploy a NodePort service for external access.

7. Fix Image Pull Issues (if necessary) – Patch the deployment to use the local Docker image instead of pulling from a registry.

8. Manually Run a Pod (if needed) – Start a pod manually and expose it as a service.

9. Expose the Service & Access the Application – Retrieve the Minikube IP and expose the service.

10. Push to GitHub – Initialize a Git repository, commit changes, and push to GitHub.

**OUTPUT SCREENSHORT**



