Phase 3: Automation - Package Management, Version Control & CI/CD

Objective:

Phase 3 focuses on automating the deployment process and improving version control practices. You will create Helm charts, set up Git repositories, and implement CI/CD pipelines using Jenkins.

You can use minikube and local jenkins. In the next phase we will work to migrate it to the cloud.

Tasks:

1. **Package Management with Helm:**

   ○ Create a Helm chart for your Kubernetes application.
   ○ Publish the Helm chart to an artifact repository. advance
2. **Version Control with Git:**

   ○ Set up a Git repository for your project.
   ○ Create multiple branches and demonstrate common Git workflows.
   ○ Resolve conflicts and manage pull requests.
3. **CI/CD Pipeline:**

   ○ Use Jenkins to create a CI/CD pipeline.
   ○ Implement different stages in the pipeline (build, test, deploy).

Deliverables:

● Git repo link with all the files(Including previous stages)