A diagram of a process

Description automatically generated

**CI/CD Pipeline Overview**

1. **Plan**: Define the features and improvements.
2. **Code**: Write the source code for the application.
3. **Build**: Compile the code and create a Docker image.
4. **Test**: Run automated tests to ensure code quality.
5. **Release**: Prepare the application for deployment.
6. **Deploy**: Deploy the application to a Kubernetes cluster.
7. **Operate**: Manage and operate the application in the production environment.
8. **Monitor**: Continuously monitor the application’s performance and reliability.

**Step-by-Step Implementation**

**Step 1: Plan**

Before coding, plan the features and improvements. Use issue tracking tools like JIRA, Trello, or GitHub Issues to manage tasks and track progress.