**CI CD Automation**

Problem Statement: You are working as DevOps Engineer and needs to automate Docker image deployment on Kubernetes Cluster. We need to automate Application deployment as Containerized application on Kubernetes. To resolve this automatically we need to automate it using Jenkins CI CD pipelines.

Code Repository:

**https://github.com/AlfredSkaria/Hotel-Management-System**

**Add below configuration to src/main/resources/application.properties**

**spring.jpa.properties.hibernate.jdbc.lob.non\_contextual\_creation=true**

**Use below command to Deploy DB**

**docker run --name postgres -p 5432:5432 -e POSTGRES\_USER=postgres -e POSTGRES\_PASSWORD=12345 -e POSTGRES\_DB=Hotel -d postgres**

1. Checkout Source code from Git Repository using Jenkins pipeline.
2. Performing Maven build using Jenkins pipeline.
3. Perform Docker image build and upload to Docker hub.
4. Perform Deployment and Kubernetes Service.
5. Validate Pods status on Kubernetes Cluster.
6. Expose pods using services.

Solution: