Date	14 Octomber 2022
Team ID	PNT2022TMID13736
Project Name	Inventory management system for retalers
Maximum Marks	2

Skills Required:
IBM Cloud,HTML,Javascript,IBM Cloud Object Storage,Python-Flask,Kubernetes,Docker,IBM DB2,IBM Container Registry

Project Description:

Retail inventory management is the process of ensuring you carry merchandise that shoppers want, with neither too little nor too much on hand. By managing inventory, retailers meet customer demand without running out of stock or carrying excess supply.

The Challenges of Retail Inventory Management
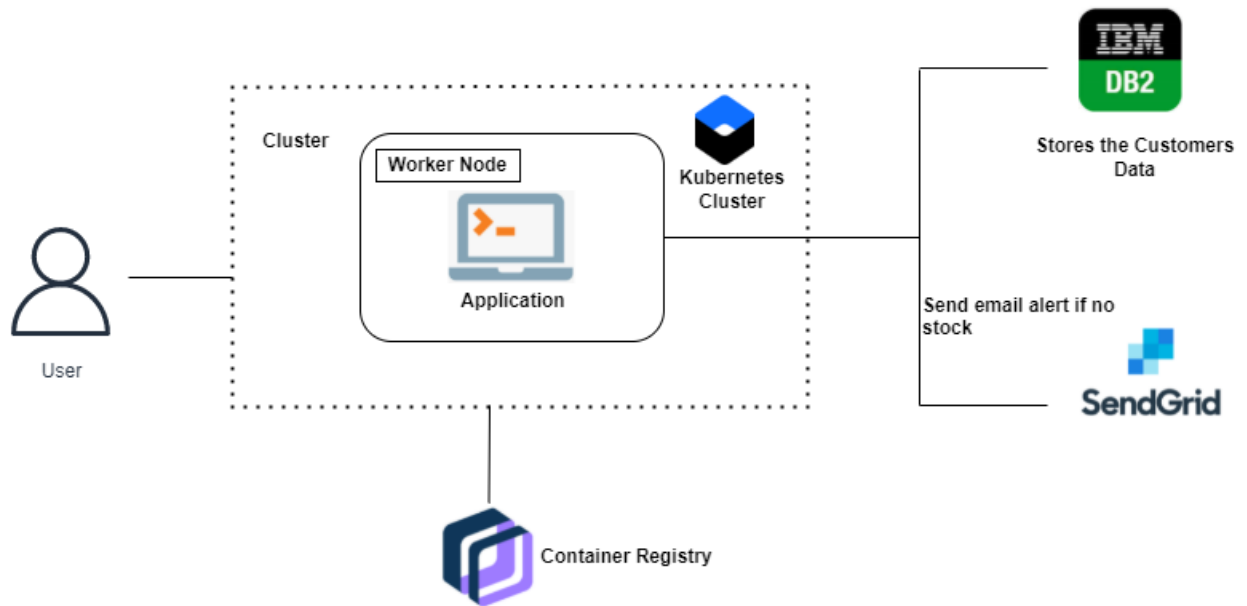
Unclear Communication
Even in straightforward business processes, miscommunication can cause irreversible damage to efficiency. You can only imagine the far-reaching impact it would have on a complex and multifarious process, like inventory management.

As inventory management has numerous components, clear communication is vital for a seamless flow.

For instance, having the correct prices is critical to print the price labels for the products in the inventory. However, if an update in the prices is not communicated before printing the labels, the products would go out with the wrong price labels. The revisions for such errors would take a lot of time. Furthermore, if the miscommunication is not detected in time, it would affect the sales and profitability of the company. out the inventory. Correct and timely information would decrease events of miscommunication

Automation can help you streamline your communication flow across the departments. A retail inventory automation software would provide real-time information ab.

Technical Architecture:

Cluster

Worker Node

Application

Kubernetes Cluster

IBM DB2

Stores the Customers Data

Send email alert if no stock

SendGrid

User

Container Registry

PROBLEM STATEMENT

I am | I am a inventory management system
"Who"

I'm trying to | For an good online shipping
Outcome

but | There are so many prolems are there,Unclear Communication,Inadequate Access,Inefficient Warehouse Management,Overselling.
Problem/Barrier

because | If the hard to find inventory is part of the supply chain for manufacturing, it can impact the operations of the entire manufacturing process
Root Cause

which makes me feel | Specific inventory management software for retail can streamline your core activities. As a result, this software would promote customer satisfaction and business growth
Emotion