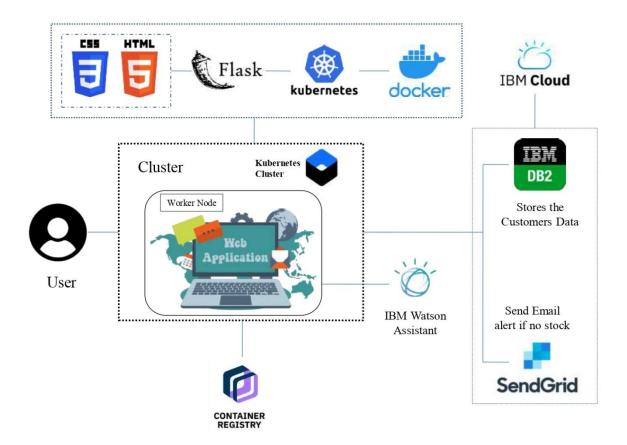
## INVENTORY MANAGEMENT SYSTEM FOR RETAILERS

## TECHNOLOGY STACK (Architecture & Stack)

## **Technical Architecture:**



**Table-1: Components & Technologies:** 

S.No	Component	Description	Technology	
1.	User Interface	Web UI, Mobile App,	HTML, CSS, JavaScript ,Query	
		Chatbot	etc.	
2.	Calculating	By entering barcode	Barcode Scanner	
	Product Count	details into the		
		application		
3.	Alert and	Alerting the retailers	Send Grid	
	notification	regarding the low stock		
		count of the product		
4.	Cloud Database	Database Service on	IBM DB2	
		cloud		
5.	Chat	Chat with Watson	IBM Watson Assistant	
		assistant		
6.	File Storage	File Storage	IBM Object Storage	
		Requirements		
7.	Infrastructure	Cloud Server	Cloud Foundry, Kubernetes	
		Configuration		

**Table-2: Application Characteristics:** 

S.No	Characteristics	Description	Technology	
1.	Open-Source	Styling our page, Python	Python Flask, Bootstrap	
	Frameworks	flask micro framework		
2.	Security	For securing our cloud	SSL Certificates	
	Implementations	data		
3.	Scalable	Three – tier architecture	Technology used are:	
	Architecture	(MVC)	<b>Web server</b> - HTML, CSS, Java	
			script	
			<b>Application server-</b> Python	
			Flask Docker	
			<b>Database Server</b> – IBM DB2	
4.	Availability	availability of application	Technology used is IBM Load	
			Balancer	
5.	Performance	2 requests per seconds,	Technology used is IBM Cloud,	
		Use of Local Machine	CDN (content delivery network)	
		Cache Memory		