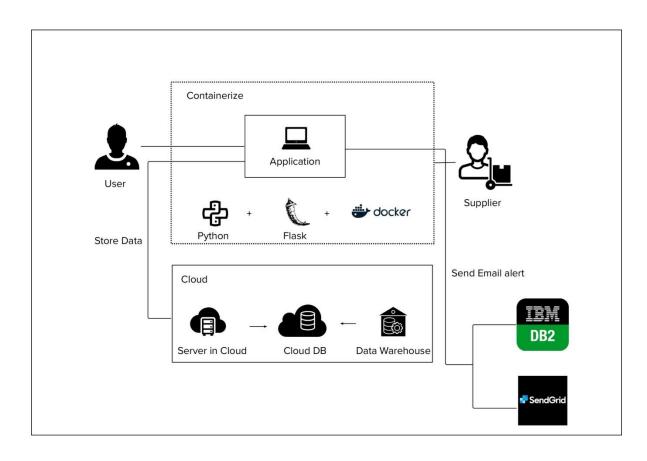
## **Project Design Phase-II**

## **Technology Stack (Architecture & Stack)**

Date	03October 2022	
Team ID	PNT2022TMID20685	
Project Name	Project: Inventory Management System for Retailers	
Maximum Marks	4 Marks	

## **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



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

S .No	Component	Description	Technology
1.	User Interface	User interacts with application by using	HTML, CSS, JavaScript / Python
		Web UI, Mobile App, Chabot etc.	flask/ IBM Cloud
2.	Calculating Product Count	By entering barcode details into the application	Barcode Scanner

3.	Alert and notification	Alerting the retailers regarding the low stock	Send Grid
		count of the product	
4.	Database	Data Type, Configurations.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud ant etc.
6.	Chat	Chat with Watson assistant	IBM Watson Assistant
7.	File Storage	File storage requirements	IBM Object Storage.
8.	Infrastructure	Cloud Server Configuration:	Cloud Foundry, Kubernetes, etc.

## **Table-2: Application Characteristics:**

S .No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Styling our page, Python flask micro Framework	Python Flask, Bootstrap.
2.	Security Implementations	For securing our cloud data.	SSL Certificates
3.	Scalable Architecture	Three – tier architecture (MVC)	Technology used are Web server –
			HTML, CSS, Java Script
			Application Server – Python Flask
			Docker
			Database Server – IBM DB2

S .No	Characteristics	Description	Technology
4.	Availability	Availability of application	Technology used is IBM Load
			Balancer
5.	Performance	2 requests per seconds, Use of Local Machine Cache Memory	Technology used is IBM Cloud, CDN