Project Design Phase-II Technology Stack (Architecture & Stack)

Date	02 November 2022	
Team ID	PNT2022TMID08254	
Project Name	INVENTORY MANAGEMENT SYSTEM	
	FOR RETAILERS	
Maximum Marks	4 Marks	

Technical Architecture Diagram:

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

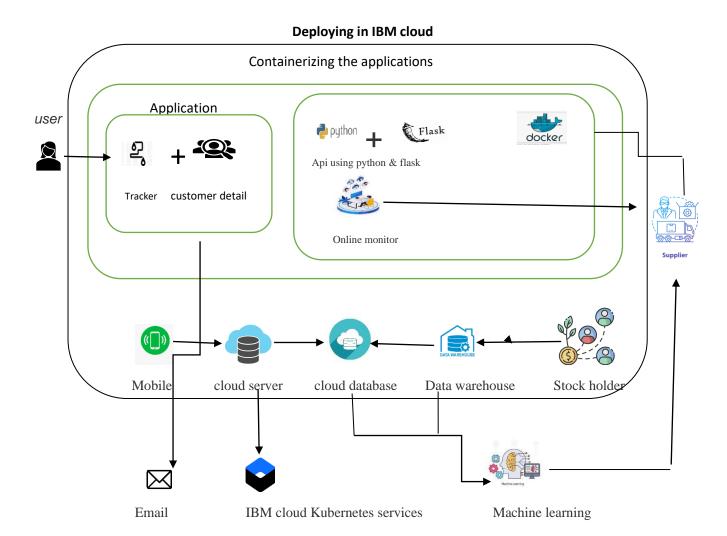


Table-1: Components & Technologies:

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY	
1	User interface	Mobile app	python	
2	Application logic-1	User login signs through the application	Juypter Watson	
3	Application logic-2	Detecting the sign language	IBM Watson	
4	Application logic-3	Convert sign language into text or speech	IBM Watson Assistant	
5	Cloud database	Database service on cloud	IBM Cloudanet	
6	File storage	Files are stored in the cloud	IBM block storage or other storage service or local files	
7	External API-1	Purpose of external API used in the application	IBM weathers API	
8	Deep learning Model	To recognitions of sign language and convert to text format	Object reorganization Model	
9	Infrastructure (Server/ Cloud)	IBM cloud configuration is a cartelized feature-management and configuration service on IBM cloud	IBM cloud Foundry	

Table-2: Application Characteristics:

S.no	Characteristics	Description	Technology
1	Open-Source Frameworks	There are no open-source frameworks in this application	Python
2	Security Implementations	Block chain technology is used for security implementations	Blockchain
3	Scalable Architecture	User can communicate with sign language recognitions	IBM cloud
4	Availability	Users are provided with sign language learning source and assistant like search engines	IBM Watson assistant
5	Performance	Convolutional Neural Network algorithm is used to produced output with high accuracy	CNN