PROJECT DESIGN PHASE - II

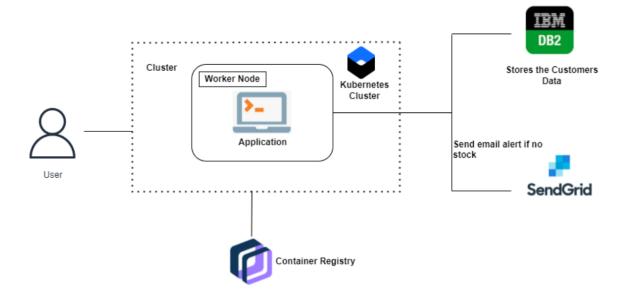
TECHNOLOGY STACK (ARCHITECTURE AND STACK)

Date	12 October 2022	
Team ID	PNT2022TMID13093	
Project Name	Project - Inventory Management System	
	forRetailers	
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

Example: Order processing during pandemics for offline mode



Guidelines:

- 1. Include all the processes (As an application logic / Technology Block)
- 2. Provide infrastructural demarcation (Local / Cloud)
- 3. Indicate external interfaces (third party API's etc.)
- 4. Indicate Data Storage components / services
- 5. Indicate interface to machine learning models (if applicable)

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript /
		e.g., Web UI, Mobile App, Chatbot etc.	Angular Js /ReactJs etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud ant etc.
7.	File Storage	File storage requirements	IBM Block Storage or
			Other StorageService or
			Local Filesystem
8.	External API-1	Purpose of External API used in the	IBM Weather API, etc.
		application	
9.	External API-2	Purpose of External API used in the	Aadhar API, etc.
		application	
10.	Machine Learning	Purpose of Machine Learning Model	Object Recognition Model,
	Model		etc.
11.	Infrastructure	Application Deployment on Local	Local, Cloud Foundry,
	(Server / Cloud)	System / CloudLocal Server	Kubernetes, etc.
		Configuration	

Table-2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Open-Source	List the open-source frameworks used	Technology of
	Frameworks		Opensource framework
2.	Security Implementations	List all the security / access controls	e.g., SHA-256,
		implemented,use of firewalls etc.	Encryptions, IAM
			Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture	Technology used
		(3 – tier, Micro-services)	
4.		Justify the availability of application	Technology used
	Availability	(e.g., use ofload balancers,	
		distributed servers etc.)	
5.	5. Performance	Design consideration for the	Technology Used
		performance of theapplication	
		(number of requests per sec, use	
		of Cache, use of CDN's) etc.	