

Project Design Phase II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID36875
Project Name	Project - Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

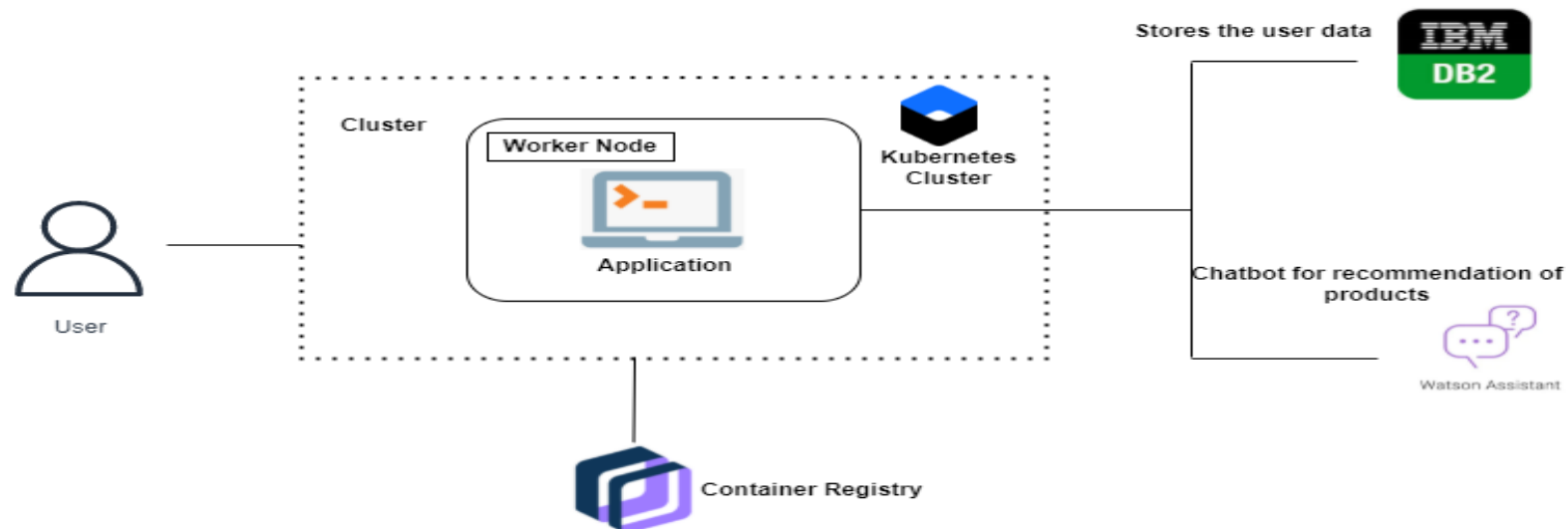


Table 1: Components and Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Chat bot .	HTML, CSS, JavaScript, Docker, Kubernetes
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 Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table 2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open-Source framework used in Cloud Stack
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Technology used in end to end Encryptions
3.	Scalable Architecture	Justify the scalability of architecture	Technology used in Virtual Machine
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used in collaborative recommender algorithm
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache) etc.	Technology used VM instance rightsizing recommender

