

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

Date	15 October 2022
Team ID	PNT2022TMID20075
Project Name	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.

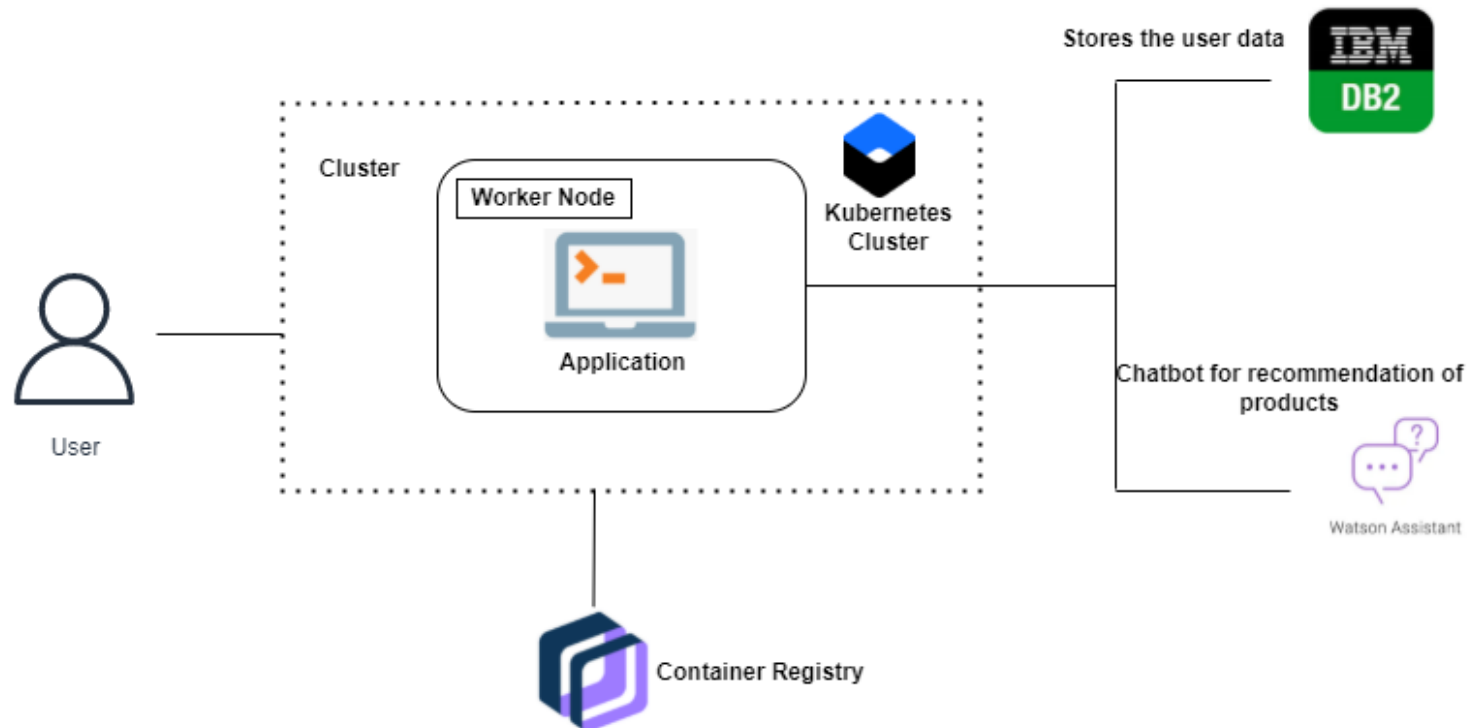


Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	The Customer/ user interacts with the application through chatbot.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	The Customer will register and login to the website.	Javascript
3.	Application Logic-2	The Customer can sign In via Google, LinkedIn, Facebook etc.	Javascript
4.	Cloud Database	The User data and products data will be stored in IBM cloud storage.	IBM DB2, IBM Cloudant etc.
5.	File Storage	The product details like price, quantity, and other details etc will be available in cloud bucket.	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	For Chatbot interaction , Watson Assistant is used. And API is used to fetch data from cloud database.	Watson assistant
2.	Security Implementations	All user data and product data will be stored in IBM cloud automatically which unknown person cannot be fetched.	IBM DB2
3.	Scalable Architecture	Micro-services architecture will be used for	java

S.No	Characteristics	Description	Technology
		scalability.	
4.	Availability	Application will be available 24/7.	IBM DB2
5.	Performance	To handle high traffic, we set up load balancer with multiple instances.	Auto scaling on cloud server