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

Date	13 October 2022
Team ID	PNT2022TMID38770
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:
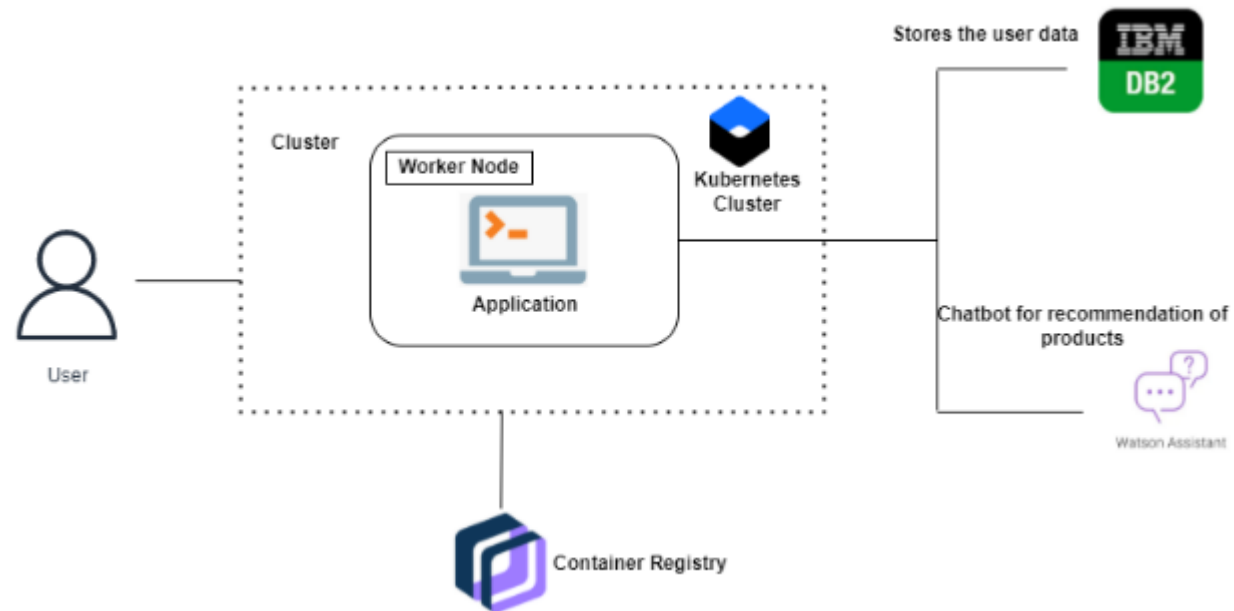
Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interaction with application – Web UI and Chatbot	HTML, CSS, JavaScript, Bootstrap
2.	Email Service	To verify user and mail id	SendGrid
3.	Chatbot	Get details from use and recommend	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	Infrastructure (Server / Cloud)	Application Deployment on Cloud System	Docker, Cloud Foundry, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Web technologies	HTML, CSS, JS, Python, Flask
2.	Security Implementations	User verification through Email Service	Sendgrid
3.	Scalable Architecture	Run the app in local and cloud system	Docker and Kubernetes
4.	Availability	Justify the availability of application (i.e., use of load balancer, distributed servers)	Docker, IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of cache, use of CDN's)	IBM Cloud, Kubernetes Cluster, Container Registry