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

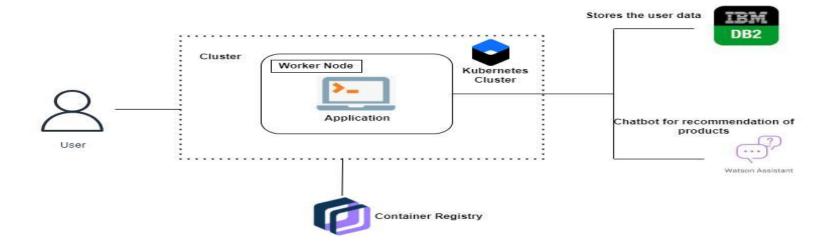| Date	04 November 2022
Team ID	PNT2022TMID28917
Project Name	Project – Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User Friendly Web Application and user interactive chatbot.	HTML, CSS, JavaScript ,Flask Web Framework.
2.	Application Logic-1	Used for Designing Web Pages using Flask Web Framework	Python
3.	Application Logic-2	Implementation of chatbot	IBM Watson Cloud Assistant
4.	Application Logic-3	Making of the chatbot a way more interactive with the customer	IBM Watson Assistant
5.	Cloud Database	For storing user data and product details.	IBM DB2, IBM Cloudant etc.
6.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	Issuing Notification to users regarding product details and mail services tracking.	Sendgrid services.
8.	Infrastructure (Server / Cloud)	Application Deployment on Cloud environment which provides portability,scalability and reliability.	Kubernetes,Docker.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Lightweight,Easy to code,Many Designing Frameworks are available	Technology-Flask,Python Based Web Framework
2.	Security Implementations	Validating User Data and performs authentication checkup.	e.g. AES-256 Encryptions for providing data security in database storage.
3.	Scalable Architecture	For handling large amount of user's request and product information	Kubernetes,Docker.
4.	Availability	Available and accessed anywhere through any devices and operates 24/7.	IBM Cloud
5.	Performance	Handling Capacity is high it handles petabytes of data for storage (1000TB)	IBM Cloud Database.