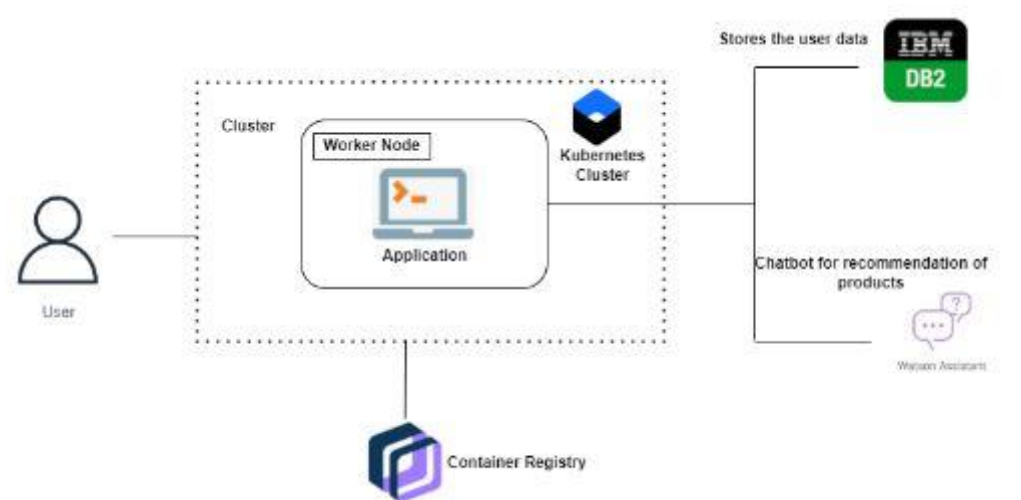


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	18 October 2022
Team ID	PNT2022TMID13869
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	How user interacts with Web UI and ChatBot to search the product	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Set up a logic for user to login to the application	Java / Python
3.	Application Logic-2	For authenticating IBM Cloud some logic to be builded	IBM Watson STT service
4.	Application Logic-3	Logic for initiate watson Assistant, chatBot initialization	IBM Watson Assistant
5.	Database	Gather the data in sql fields	MySQL, NoSQL, etc.
6.	Cloud Database	Initiate cloud database with reference of base database	IBM DB2, IBM Cloudant etc.
7.	File Storage	This does,'t store any data in the local systems, instead it will store the data in the cloud	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	ChatBot is used in this application, by using charBot API	IBM ChatBOT
9.	Machine Learning Model	Machine learning model used in thar api, no other special model is used	Data Analysis model used in chatbot
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	There are three main open source technologies are used	Python, Flask, Docker
2.	Security Implementations	ChatBot have prebuild security implementations and privacy limitations	SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Recommender application is really scalable with increase of new products	Javascript, Python, Docker
4.	Availability	Software available all times and with specified technologie	Javascript, python
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Docker: and python Technology was learning wi