

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

Date	25 October 2022
Team ID	PNT2022TMID44592
Project Name	Project – Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

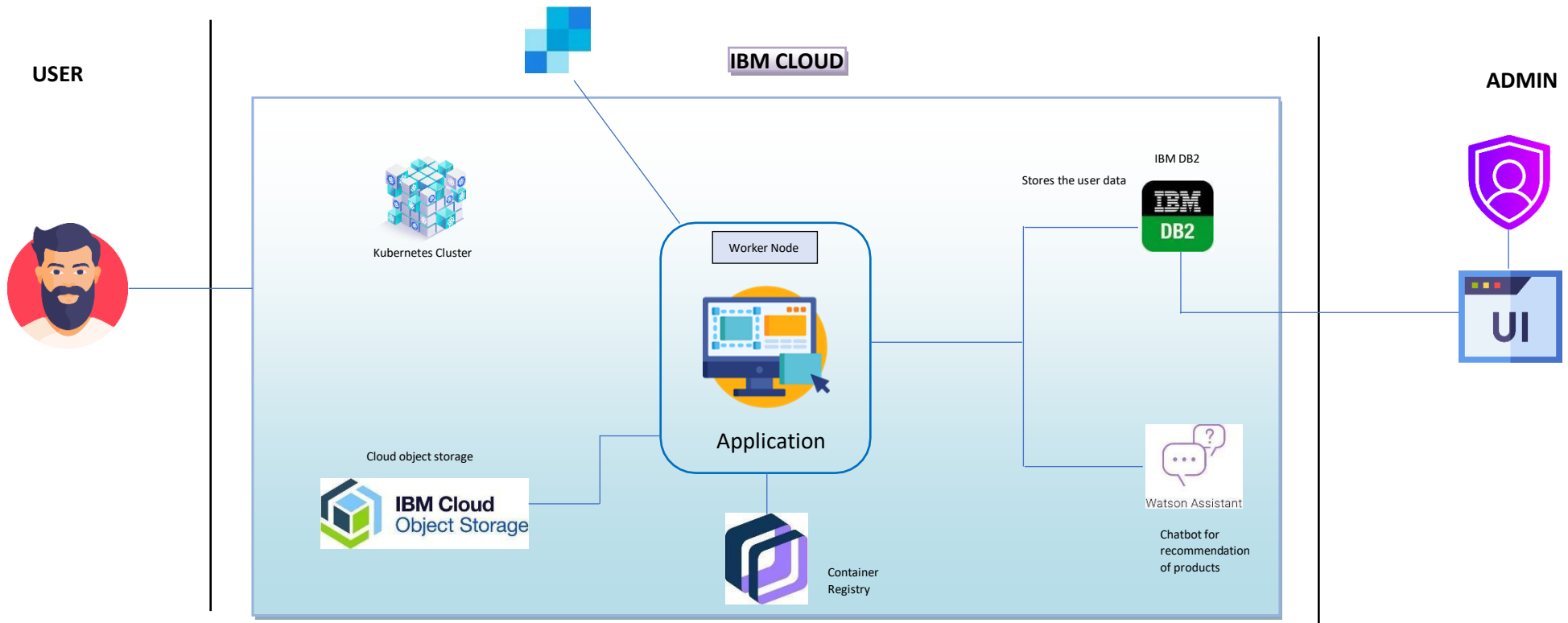


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	User interacts with web application e.g., Web UI	HTML, CSS, JavaScript, Flask.
2.	Application Logic-1	The application includes login where user can login with their credentials and also supports registration where new users can be added.	Python
3.	Application Logic-2	The application includes a chatbot which helps the user in recommendation of products.	IBM Watson Assistant
4.	Database	Data Type, Configurations etc	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant, etc.
6.	File Storage	File storage requirements	IBM Block Storage
7.	External API	To send emails from the application	SendGrid
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Docker, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask It is an open-source web framework. The web application is built using Flask	Python
2.	Security Implementations	<ul style="list-style-type: none">• Enable Role-based access control• Enables strict version control and permits rapid rollbacks if a vulnerability is uncovered in new code.	Container registry, Kubernetes
3.	Scalable Architecture	Getting resources to different parts of the system that need it	Container registry, Kubernetes Microservices Architecture
4.	Availability	The application can be accessed at any time	IBM Cloud , Docker
5.	Performance	Handles 1000 numbers of user's requests without ambiguity.	Docker , IBM Watson