

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

Date	03 October 2022
Team ID	PNT2022TMID05569
Project Name	Project - Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

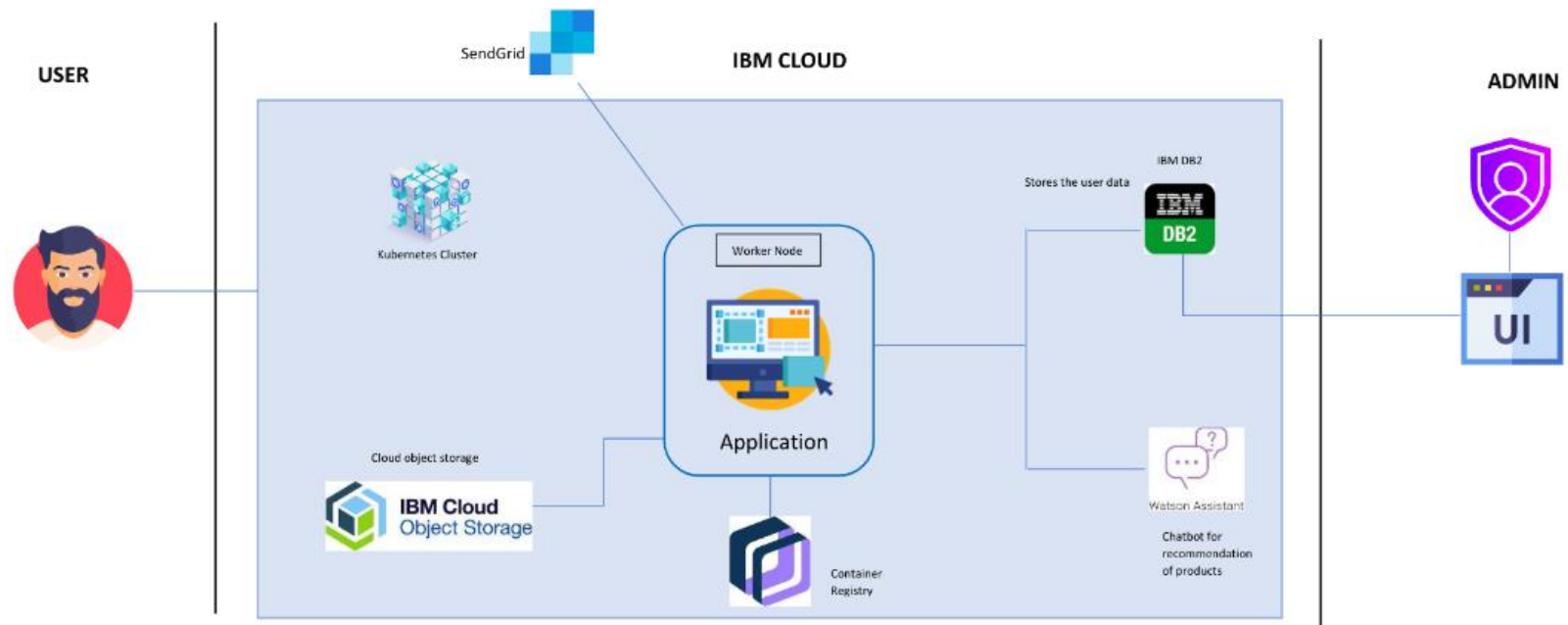


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	The user interacts with application e.g., Web UI	HTML, CSS, JavaScript, React Js, Flask
2.	Application Logic-1	Login and new registration process can be done	Python
3.	Application Logic-2	The application includes a chatbot that recommends products based on user's wish	IBM Watson Assistant
4.	Database	Details of customer and products are stored	MySQL
5.	Cloud Database	Ensures secured storage of data	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	To send Email from the application	SendGrid
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Docker, Kubernetes

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is an open-Source web framework.	Flask
2.	Security Implementations	<ul style="list-style-type: none">• Enables Role-based access control• Enables strict version control and permits rapid rollback if a vulnerability is uncovered in new code	Container registry, Kubernetes
3.	Scalable Architecture	Handles large number of users on demand	Container registry, Kubernetes
4.	Availability	The availability of application is anytime	Docker
5.	Performance	Handles many numbers of user request without ambiguity	Docker