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

Date	20 October 2022
Team ID	PNT2022TMID44295
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 marks

Technical architecture:
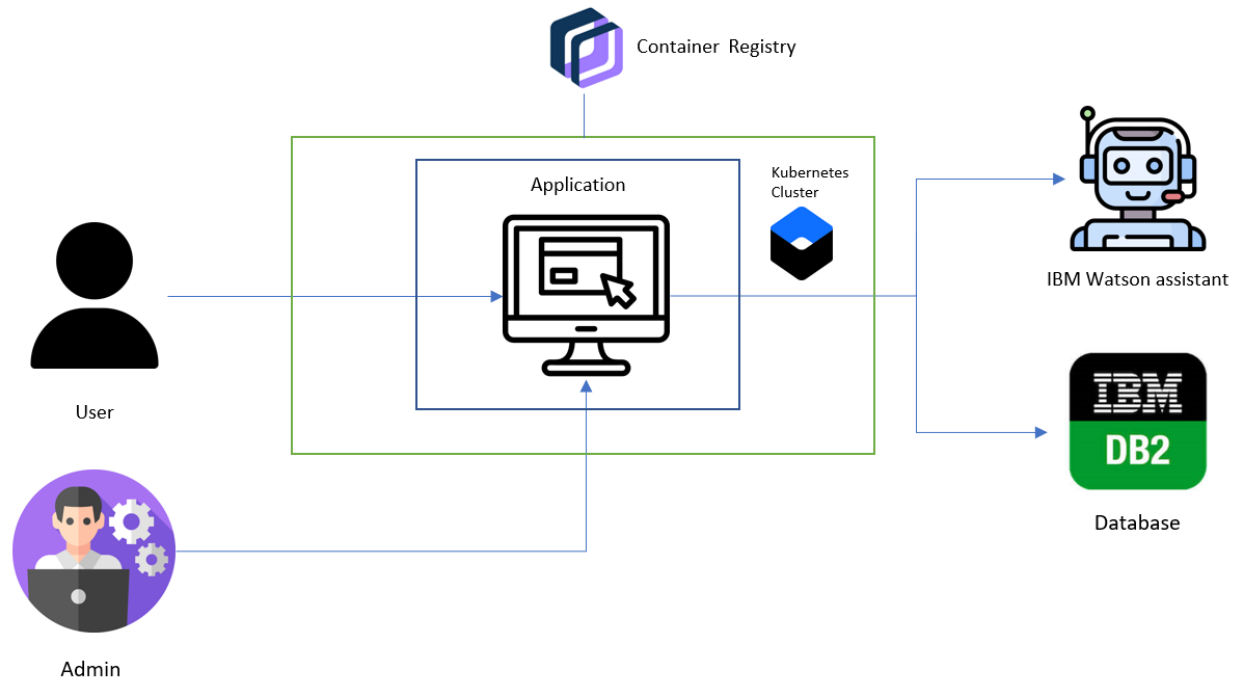
Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Graphical interface for the users	HTML, CSS, JavaScript
2.	Application Logic	Logic for a process in the application	Python - Flask
3.	Email Service	Cloud based email server	SendGrid
4.	Chatbot	Get details from user and store	IBM Watson Assistant
5.	Cloud Database	Database Service on Cloud	IBM DB2
6.	Infrastructure (Server / Cloud)	Application Deployment on Cloud System	Docker, Kubernetes

Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Used Web technologies	Python – Flask, Docker
2.	Security Implementations	User verification through Email Service	Sendgrid
3.	Scalable Architecture	System that can scale the resources based on demand	Container Registry
4.	Availability	24/7 availability of application (use of load balancers, distributed servers etc.)	IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Kubernetes Cluster, Container Registry