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

Date	03 October 2022
Team ID	PNT2022TMID08421
Project Name	Smart fashion recommender system
Maximum Marks	4 Marks

Technical Architecture:
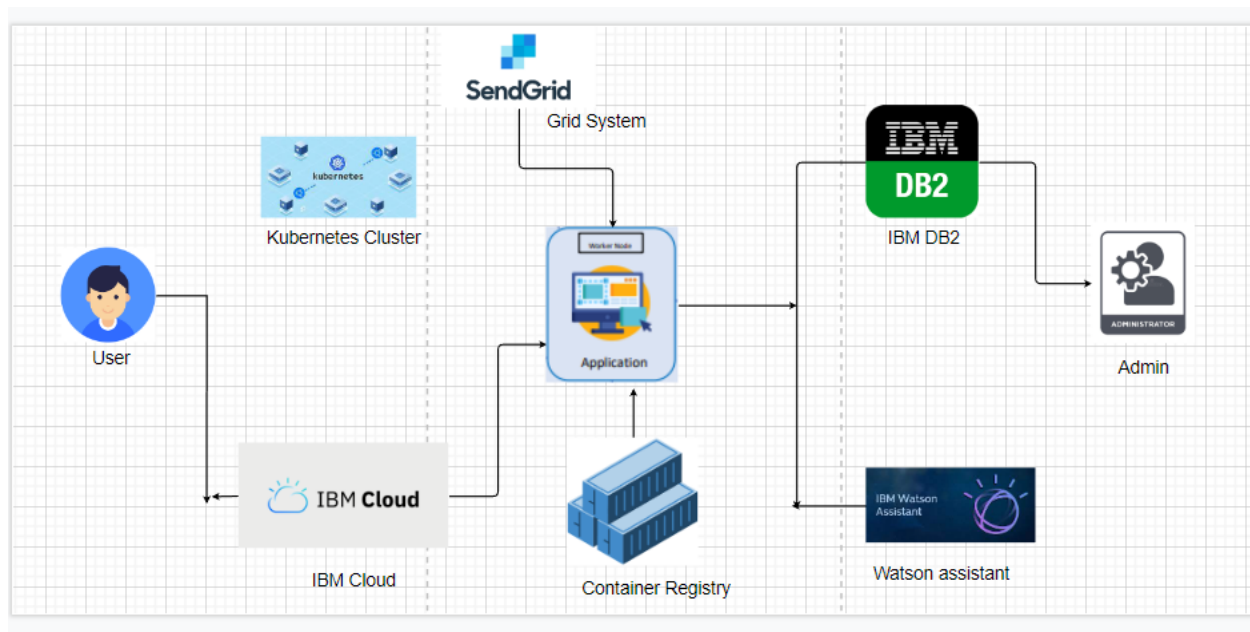
S.No	Component	Description	Technology
1.	User Interface	user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Requests	How web application communicates with server	Javascript / Python
3.	Application Logic-2	The application includes login where user can login with their credentials and also supports registration where new users can be added.	Python

4.	Watson chatbot	The application includes a chatbot which helps the user in recommendation of products.	IBM Watson Assistant
5.	IBM cloud DB2	Details of customers and products are stored. Data types are String, Numeric, Date, time, and timestamp distinct types. Act_ sortmem_ limit, auto_ del_ rec _ obj, auto_ maint Configuration	MySQL, NoSQL, etc.
6.	Cloud Db2	A fully managed cloud database with AI capabilities that keep our website running 24*7	IBM DB2, IBM Cloudant etc.
7.	Kubernetes	Manage the complete process in the stable state If any software crash it automatically restart the work	Kubernetes
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Cloud Stack, Eucalyptus. Open Nebula, App Scale, Docker	Docker
2.	Security Implementations	Authentication and password management Accountability to authorize and monitor the use anonymous accounts and to remove	Encryptions, Secured Authorization
3.	Scalable Architecture	Handles large number users on demand	Container registry, Kubernetes
4.	Availability	The application can be accessed at any time.The administrator needs to look up the stock availability in the database	Docker
5.	Performance	Speed up the webpage Site optimization based on data analysis.	Kubernetes