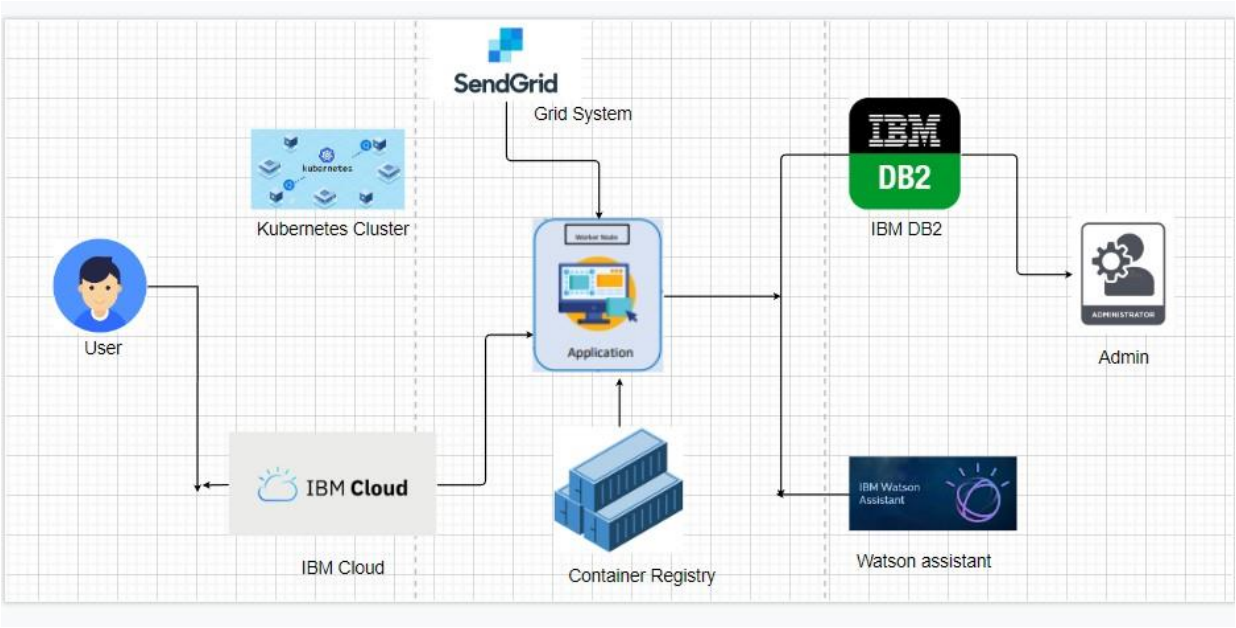
Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	11 November 2022
Team ID	PNT2022TMID34632
Project Name	Smart fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:



S.No	Components	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	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