

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

Date	25 October 2022
Team ID	PN2022TMID38614
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

### Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

**Table-1: Components & Technologies:**

S. No	Component	Description	Technology
1.	User Interface	user interaction with application e.g. Web UI & Chatbot	HTML, CSS, Bootstrap, JavaScript
2.	Application Logic	Logic for a process in the application	Python - Flask

3.	Email Service	For verify user and mail ads	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, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Used Web technologies	HTML, CSS, JS, Python, Flask
2.	Security Implementations	User verification through Email Service	SendGrid
3.	Scalable Architecture	Run the app in Local and Cloud System	Docker and Kubernetes
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Docker and Kubernetes
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cloud, Kubernetes Cluster, Container Registry