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

Date	05 November 2022
Team ID	PNT2022TMID42604
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:
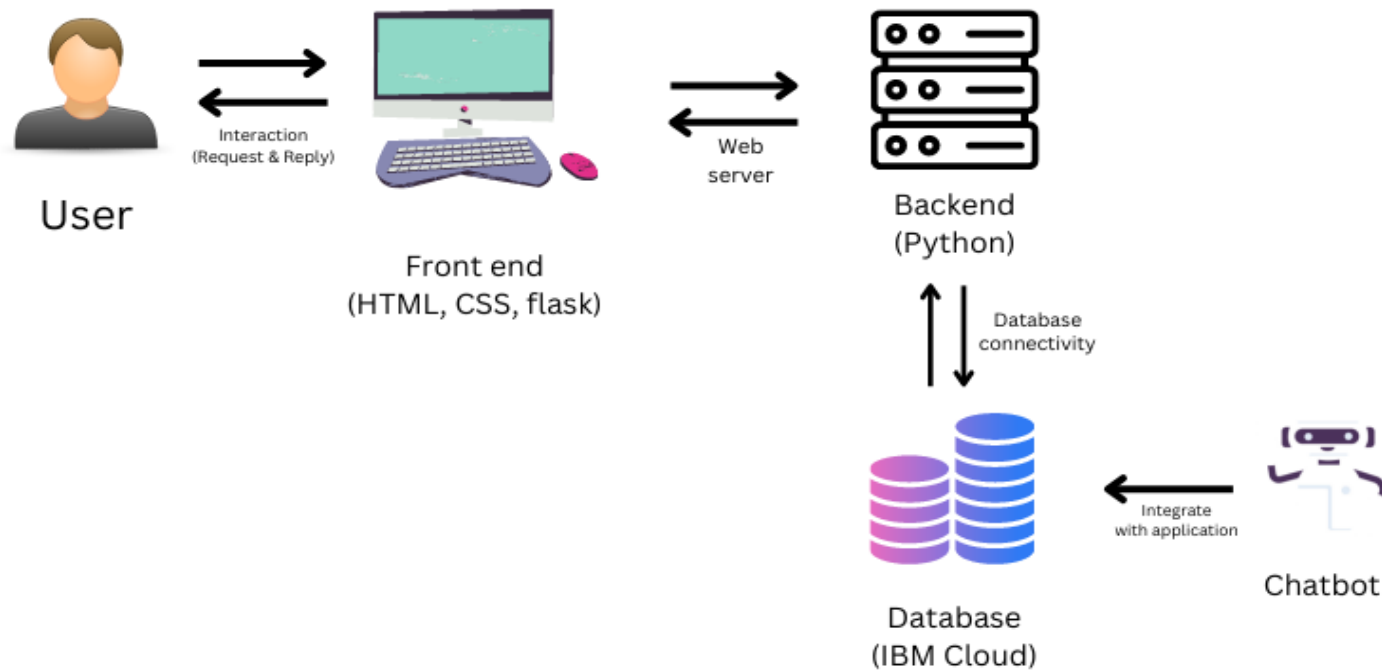
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Python flask.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage
8.	Machine Learning Model	Purpose of Machine Learning Model	Fashion Recognition Model
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	- Html provides the basic structure of a web page. - CSS is used to describe the colour, size etc,… - JavaScript is a backend framework - Python flask makes web developer life easy to build a web-application	HTML, CSS, JavaScript, Python flask
2.	Security Implementations	For the authentication purpose	Sendgrid
3.	Scalable Architecture	It breaks the architecture into smaller pieces and makes them loosely coupled for improving scalability.	Kubernetes
4.	Availability	Docker packages an application and all its dependencies into a virtual container that can run on anywhere	Docker
5.	Performance	Kubernetes services provide load balance and simplify container management across multiple hosts	Kubernetes