

Project Design Phase-II Technology Architecture

Date	17 October 2022
Team ID	PNT2022TMID54011
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

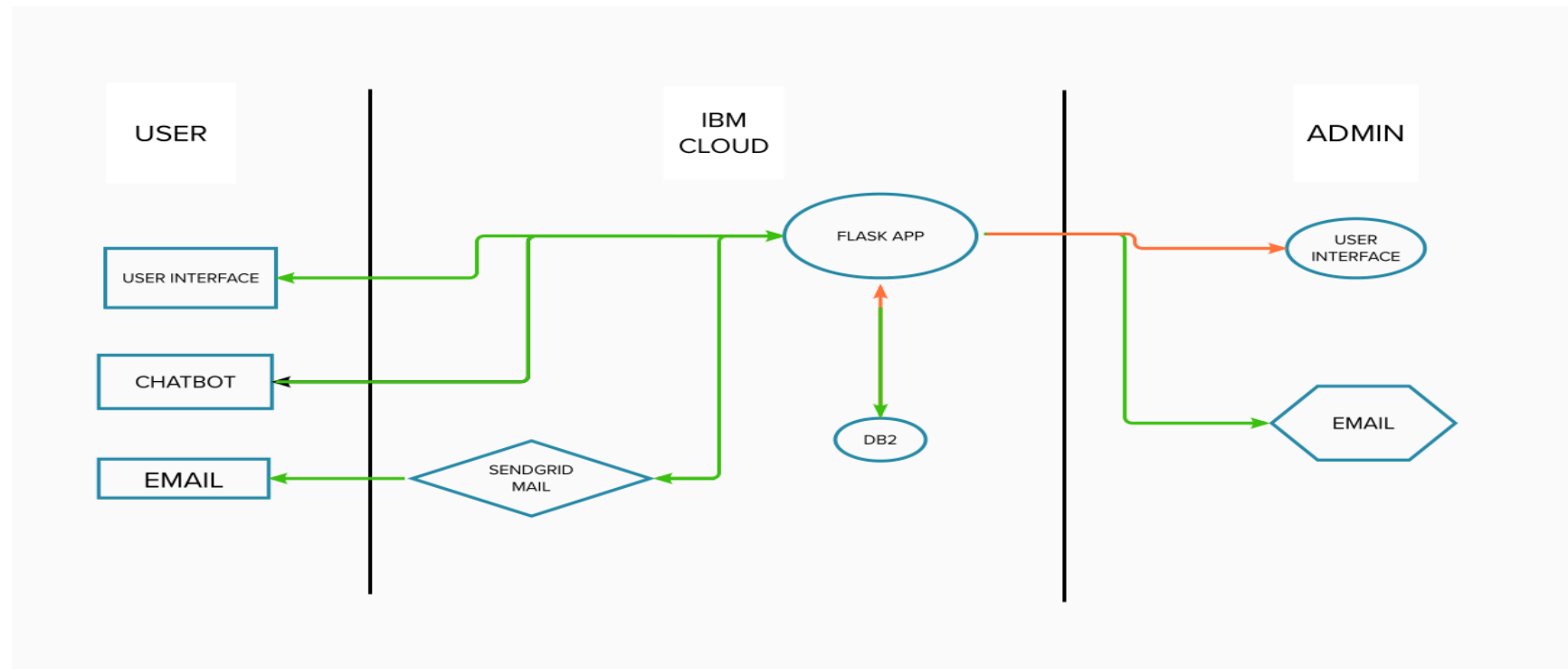


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	user interaction with application e.g. Web UI & Chatbot	HTML, CSS, Bootstrap JavaScript
2.	Docker	Service for storing the private container images	Container
3.	Application Logic	Logic for a process in the application	Python - Flask
4.	Email Service	For verify user and mail ads	SendGrid
5.	Chatbot	Get details from user and store	IBM Watson Assistant
6.	Cloud DB2	A fully managed cloud database with AI capabilities that keep our website running 24*7.	IBM DB2
7.	DB2	Data types are String, Numeric, Date, time, and timestamp distinct types. Act_ sortmem_ limit, auto_ del_ rec _ obj, auto_ maint Configuration .	MySQL
8.	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. Cloud Stack, Eucalyptus. Open Nebula, App Scale, Docker	HTML,CSS, JS , Python , Flask
2.	Security Implementations	User verification through Email Service. Authentication and password management Accountability to authorize and monitor the use anonymous accounts and to remove	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 , 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.	IBM Cloud , Kubernetes Cluster , Container Registry