

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

Date	15 October 2022
Team ID	PNT2022TMID50854
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

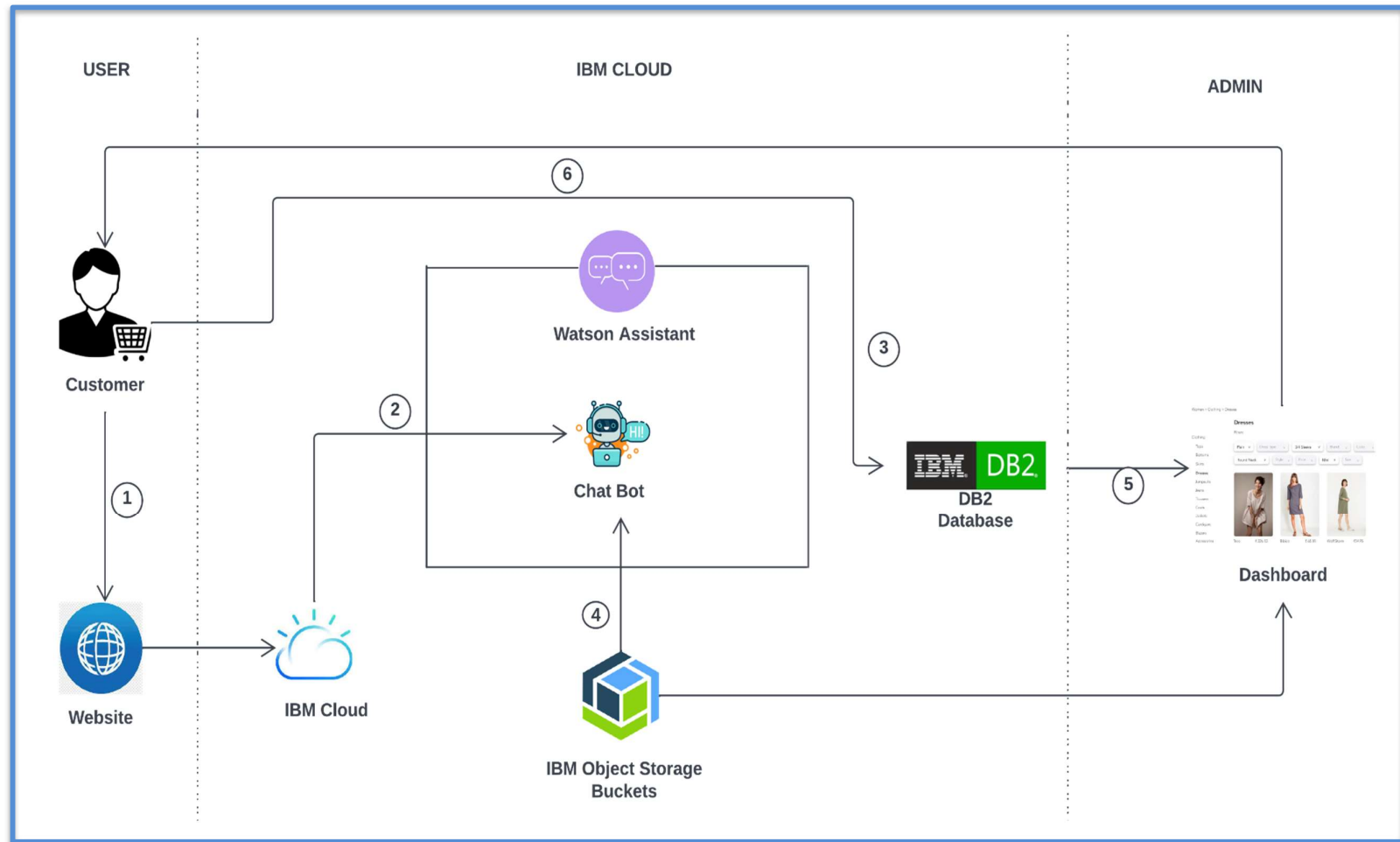


Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	Website	Customer can proceed the website and interact with the chatbot to get the desire product	HTML, CSS, JavaScript, Watson chatbot
2.	Docker	Service for storing the private container images	Container
3.	IBM Object Storage	Bucket are used to upload the images and files	Bucket
4.	Kubernetes	Manage the complete process in the stable state If any software crash it automatically restart the work	Kubernetes
5.	DB2	Data types are String, Numeric, Date, time, and timestamp distinct types. Act_ sortmem_ limit, auto_ del_ rec _ obj, auto_ maint Configuration .	MySQL
6.	Cloud DB2	A fully managed cloud database with AI capabilities that keep our website running 24*7.	IBM DB2
7.	Watson chatbot	Customers can search the product easily by human-like interaction with bot.	IBM Watson Assistant
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Anaconda Cloud Sever Configuration: IBM cloud	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	To expand our server capacity, memory, or disc space so that more people may transact on your website. Chat bots to provide scalable customer support.	DB2, Watson chatbot
4.	Availability	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