

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

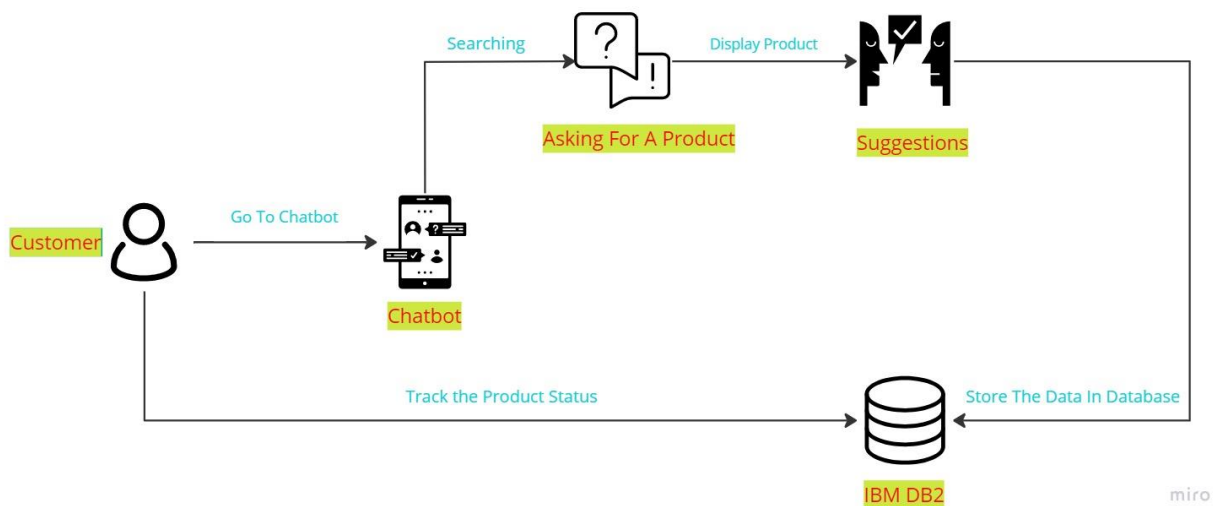
Date	03 October 2022
Team ID	PNT2022TMID45324
Project Name	Smart Fashion Recommender Application
Maximum Marks	4 Marks

### Technical Architecture:

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

**Example: Order processing during pandemics for offline mode**

Reference: [https://miro.com/app/board/uXjVPCLPVco=/?share\\_link\\_id=685266313592](https://miro.com/app/board/uXjVPCLPVco=/?share_link_id=685266313592)



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

S.No	Component	Description	Technology
•	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript.
•	Login	The login Page accept the username and password	Python

•	SignUp	Signup page accept the username and password	Python
•	Dashboard	User Order	Html,css and javascript
•	Database	Localhost:8080	SQL
•	Cloud Database	Database Service on Cloud	IBM DB2.
•	Object Storage	Project	IBM Object Storage
•	IBM Watson Assistance	User Order	IBM Watson API
•	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
•	Open-Source Frameworks	Flask	Python based Framework
•	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
•	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
•	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
•	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

**References:**

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>