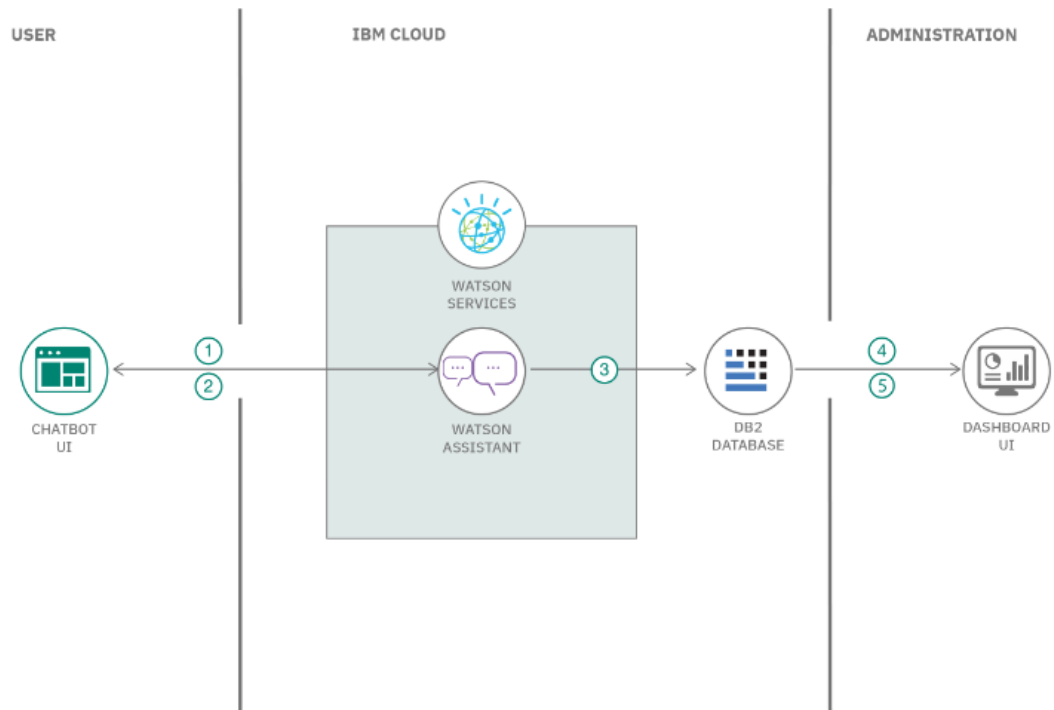


## Project Design Phase-II Technology Stack (Architecture & Stack)

|               |                                       |
|---------------|---------------------------------------|
| Date          | 03 October 2022                       |
| Team ID       | PNT2022TMID28063                      |
| Project Name  | Smart Fashion Recommender Application |
| Maximum Marks | 4 Marks                               |

### TECHNOLOGY 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, JavaScript                  |
| 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                                  |
| 6.   | Cloud Database                  | Database Service on Cloud                                                                                     | IBM DB2                                |
| 7.   | File Storage                    | File storage requirements                                                                                     | IBM Block Storage or Local Filesystem  |
| 8.   | External API-1                  | Purpose of External API used in the application                                                               | IBM Weather API, etc.                  |
| 9.   | Machine Learning Model          | Purpose of Machine Learning Model                                                                             | Object Recognition Model, etc.         |
| 10.  | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud<br>Local Server Configuration:<br>Cloud Server Configuration : | Local, Cloud Foundry, Kubernetes, etc. |

**Table-2: Application Characteristics:**

| <b>S.No</b> | <b>Characteristics</b>   | <b>Description</b>                                                 | <b>Technology</b>                                   |
|-------------|--------------------------|--------------------------------------------------------------------|-----------------------------------------------------|
| 1.          | Open-Source Frameworks   | Flask                                                              | Python                                              |
| 2.          | Security Implementations | User Authentication                                                | e.g. SHA-256, Encryptions, IAM Controls, OWASP etc. |
| 3.          | Scalable Architecture    | Justify the scalability of architecture (3 – tier, Micro-services) | Technology used                                     |
| 4.          | Availability             | 24x7                                                               | IBM Cloud                                           |
| 5.          | Performance              | 500 requests per sec                                               | Watson studio                                       |