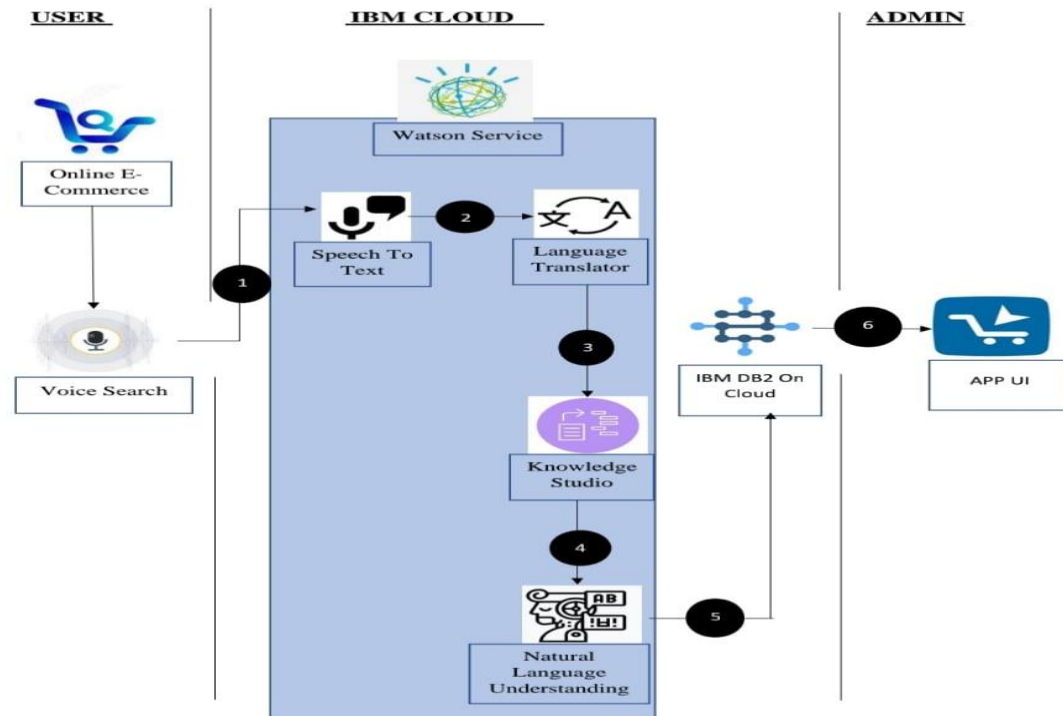


## Project Design Phase-II Technology Stack (Architecture & Stack)

|               |  |
|---------------|--|
| Date          | 15 October 2022                                    |
| Team ID       | PNT2022TMID49541                                   |
| Project Name  | Project – Smart Fashion Recommendation 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, JavaScript / Angular JS / React JS etc.             |
| 2.    | Application Logic-1             | Logic for a process in the application  | Java / 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 etc.                                     |
| 7.    | File Storage                    | File storage requirements   | IBM Block Storage or Other Storage Service or Local Filesystem |
| 8.    | External API-1                  | Purpose of External API used in the application   | security API, etc.   |
| 9.    | External API-2                  | Purpose of External API used in the application   | scalability API, etc.  |
| 10.   | Machine Learning Model          | Purpose of Machine Learning Model   | Object Recognition Model, etc.                                 |
| 11.   | 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   | List the open-source frameworks used  | Technology of Opensource framework                   |
| 2.           | Security Implementations | List all the security / access controls implemented, use of firewalls etc.  | 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             | Justify the availability of application (e. g. use of load balancers, distributed servers etc.)                           | Technology used                                      |
| 5.           | Performance              | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Technology used                                      |