

# Project Design Phase-II

## Technology Stack (Architecture & Stack)

|               |  |
|---------------|--|
| Date          | 03 October 2022                                  |
| Team ID       | PNT2022TMID09989                                 |
| Project Name  | Project – Smart Fashion Recommender Applications |
| Maximum Marks | 4 Marks  |

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

| S.No | Component                          | Description  | Technology  |
|------|------------------------------------|--|---|
| 1.   | User Interface                     | How user interacts with application<br>e.g. Web UI, Mobile App, Chat bot etc.                                    | HTML, CSS, JavaScript / Angular JS/<br>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   | BM 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 Cloud ant etc.                                       |
| 7.   | File Storage                       | File storage requirements  | IBM Block Storage or Other Storage<br>Service or Local Filesystem |
| 8.   | External API-1                     | Purpose of External API used in the<br>application   | IBM Weather API, etc.   |
| 9.   | External API-2                     | Purpose of External API used in the<br>application   | Aadhar API, etc.  |
| 10.  | Machine Learning<br>Model          | Purpose of Machine Learning Mode   | Object Recognition Model, etc.                                    |
| 11.  | Infrastructure<br>(Server / Cloud) | Application Deployment on Local<br>System / Cloud Local Server<br>Configuration: Cloud Server<br>Configuration : | Local, Cloud Foundry, Kubernetes,<br>etc.                         |

**Table-2: Application Characteristics:**

| S.No | Characteristics          | Description  | Technology  |
|------|--------------------------|--|---|
| 1.   | Open-Source Frameworks   | List the open-source frameworks used   | Technology of Open source 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                                     |

## Technical Architecture:

