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

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| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID14633 |
| Project Name | Inventory Management System For Retailers |
| Maximum Marks | 4 Marks |

Technical Architecture:

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

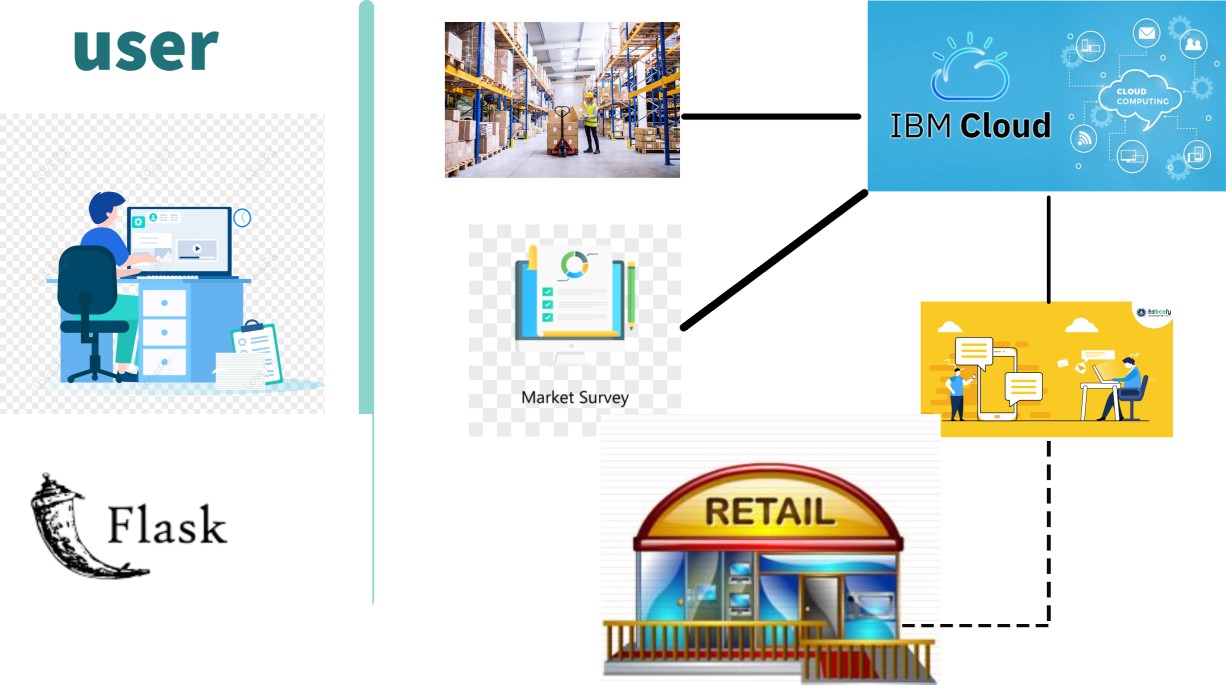


Table-1 : Components & Technologies:

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
| 1. | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | HTML, CSS |
| 2. | Application Logic-1 | Logic for a process in the application | Java / Python |
| 3. | File Storage | File storage requirements | IBM Block Storage or Other Storage  Service or Local Filesystem |
| 4. | Tracking | Purpose of External API used in the application | Location Sharing (GPS) |
| 5. | Market Survey | Taking Survey for product | Html forms |
| 6. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud Local Server Configuration:  Cloud Server Configuration : | Local, Cloud Foundry |

Table-2: Application Characteristics:

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Characteristics** | **Description** | **Technology** |
| 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. | Secure web host |
| 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 |