

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

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| Date | 15th November 2022 |
| Team ID | PNT2022TMID52969 |
| Project Name | Airlines Data Analytics for Aviation Industry |

TECHNOLOGY
ARCHITECTURE

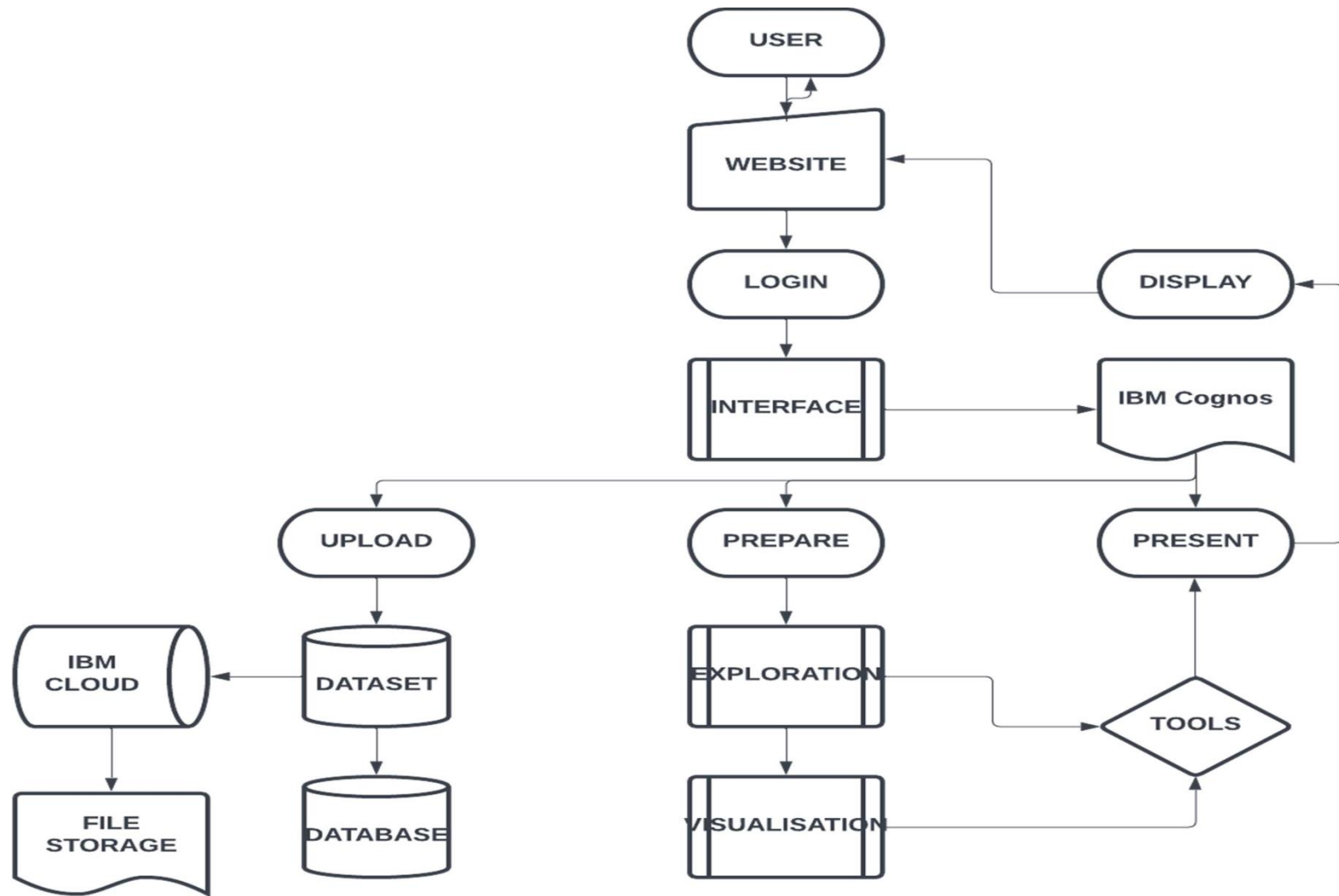


Table-1 : Components & Technologies:

| S.No | Component | Description | Technology |
|------|----------------------------|--|--|
| 1. | User Interface | How the user interacts with the interface e.g.Web UI, etc. | HTML, CSS, JavaScript |
| 2. | Dashboard Logic-1 | Logic for a process in the dashboard | IBM Cognos Analytics |
| 3. | Dashboard Logic-2 | Logic for a process in the dashboard | MS Excel |
| 4. | Database | Data Type, Configurations etc. | MySQL |
| 5. | Cloud Database | Database Service on Cloud | IBM Cloud |
| 6. | File Storage | File storage requirements | IBM Block Storage or Other Storage Service or Local Filesystem |
| 7. | Uploading and Presentation | Using Exploration and Visualization | IBM Cognos Analytics |

Table-2: Dashboard Characteristics:

| S.No | Characteristics | Description | Technology |
|------|------------------------|---|------------|
| 1. | Open-Source Frameworks | Dashboard Frameworks, simply is the eye of business, an indicator of it. It explains the flaw side and perfection part in the form of charts, graphs and many more. | IBM Cognos |
| 2. | Scalable Architecture | A scalable architecture for dashboard refers to a system, network, or process that is designed to handle a workload that may change in scope | IBM Cognos |
| 3. | Availability | The dashboard can available to meet user's demand in timely manner and it is also helps to provide necessary information to the user's dataset. | IBM Cognos |

| S.No | Characteristics | Description | Technology |
|------|-----------------|--|------------|
| 4. | Performance | This dashboard can scan the backend users and analyzing the frequency in which they visit the dashboard helps understand how useful and helpful the data displayed is for tasks. | IBM Cognos |