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

| Date | 03 October 2022 |
|---|---|
| Team ID | PNT2022TMID14675 |
| Project Name | Project - Corporate Employee Attrition |
| Maximum Marks | 4 Marks |

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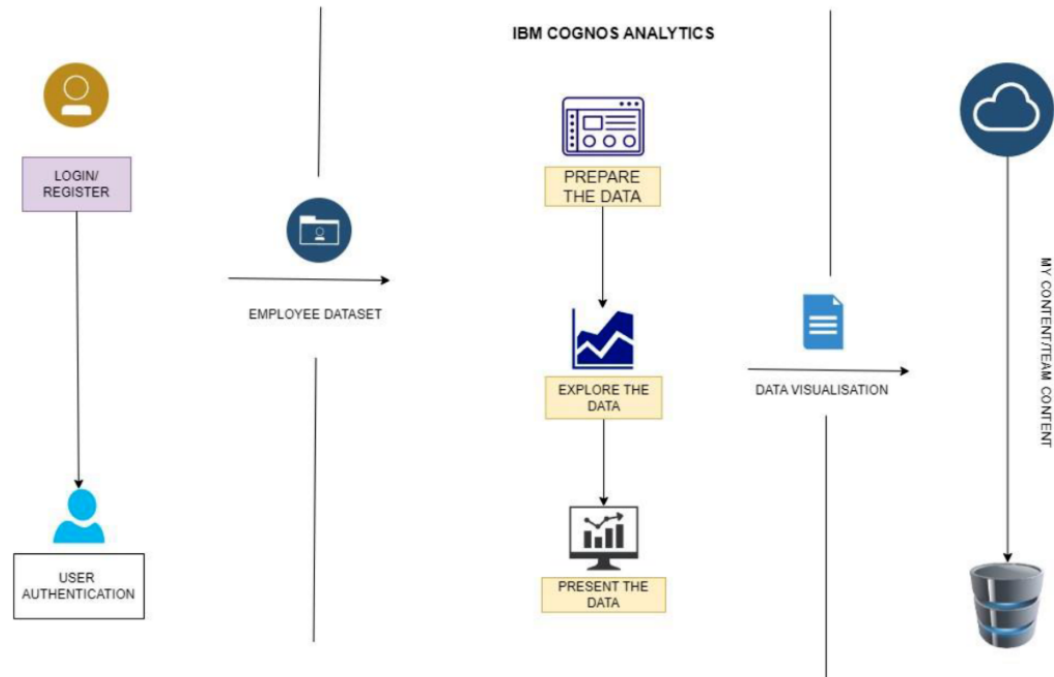
**Table-1 : Components & Technologies:**

| S.No | Component | Description | Technology |
|------|-----------|-------------|------------|
| 1. | User Interface | Mostly GUI components accessed through provided links | HTML, CSS, JavaScript |
| 2. | Database | Manipulating given datasets and saving the data in a secure location for future use | Local NoSQL DB |
| 3. | File Storage | Datasets can be uploaded to your Cognos Account | Local Filesystem |
| 4. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration | Local host |

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|---|---|---|---|
| 1. | Open-Source Frameworks | IBM provides tools for simple to complex visualisations to be implemented | IBM Cognos Analytics and tableau |
| 2. | Security Implementations | It provides Exclusivity and is only ever share-able from your own account | Encryptions, IAM Controls |
| 3. | Scalable Architecture | It is capable of handling very large datasets | Cognos Analytics and tableau |
| 4. | Availability | Clicking on the shared link redirects you to the data visualisations as long as you have an account | Cognos Analytics and tableau |
| 5. | Performance | It is a simple tool that can be used to achieve complex and large visualisations with ease | Cognos Analytics and tableau |