

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

|               |                                       |
|---------------|---------------------------------------|
| Team ID       | PNT2022TMID43171                      |
| Project Name  | Project - GLOBAL SALES DATA ANALYTICS |
| Maximum Marks | 4 Marks                               |

## Technical Architecture :



## Components & Technologies:

| S.No | Component                       | Description   | Technology                       |
|------|---------------------------------|---|----------------------------------|
| 1    | User Interface                  | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.                                     | IBM Cognos Analytics with Watson |
| 2    | Upload data                     | Logic for a process in the application  | IBM Cognos Analytics with Watson |
| 3    | Prepare data                    | Logic for a process in the application  | IBM Cognos Analytics with Watson |
| 4    | Exploration                     | Logic for a process in the application  | IBM Cognos Analytics with Watson |
| 5    | Present data                    | Logic for a process in the application  | IBM Cognos Analytics with Watson |
| 6    | Cloud Database                  | Database Service on Cloud   | IBM DB2, IBM Cloudant            |
| 7    | File Storage                    | File storage requirements   | IBM CLOUD                        |
| 8    | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud<br>Local Server Configuration:<br>Cloud Server Configuration : | IBM CLOUD.                       |

## Application Characteristics:

| S.No | Characteristics          | Description   | Technology  |
|------|--------------------------|---|---|
| 1.   | Open-Source Frameworks   | List the frameworks used  | IBM COGNOS With Watson,IBM CLOUD                                    |
| 2.   | Security Implementations | List all the security / access controls implemented, use of firewalls etc.  | LDAP OR Active Directory  |
| 3.   | Scalable Architecture    | Justify the scalability of architecture   | Three server tiers: Web Tier.                                       |
| 4.   | Availability             | Ability to create complex, multi-page layouts using different data sources. High performance data access across all sources. Complete connectivity regardless of environment. | WebSphere® Application Server, Cognos® Business Intelligence server |
| 5.   | Performance              | Design consideration for the performance of the application.  | 3IBM® Cognos® Performance Management Hub (PMHub)                    |