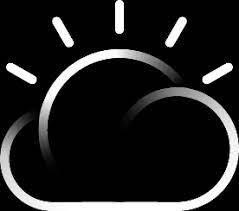
Project Design Phase-II

Technology Stack (Architecture & Stack)

|  |  |
| --- | --- |
| Date | 24 November 2022 |
| Team ID | PNT2022TMID51381 |
| Project Name | Project - Analytics for Hospitals HealthCare Data |
| Maximum Marks | 4 Marks |

Technical Architecture:

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# (CSS,HTML)

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, etc. |
| 2. | Dashboard Logic-1 | Logic for a process in the application | Data Analysis with Python |
| 3. | Dashboard Logic-2 | Logic for a process in the application | IBM Cognos Analytics |
| 4. | Dashboard 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 Cloud |
| 7. | File Storage | File storage requirements | IBM Block Storage or Other Storage Service. |

Table-2: Application Characteristics:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Characteristics | Description | Technology |
| 1. | Open-Source Frameworks | List the open-source frameworks used | IBM Cognos Analytics |
| 2. | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | Encrypted Cloud storage, Firewall, etc. |
| 3. | Scalable Architecture | Justify the scalability of architecture (3 – tier, Microservices) | IBM Cloud, IBM Watson Assistant |
| 4. | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc.) | IBM Cognos Analytics, Data Analytics with Python |
| 5. | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc. | Cognitive Analytics- It analyzes the data & making decisions. |