**PROJECT DESIGN PHASE-II**

**Technical Architecture:**

|  |  |
| --- | --- |
| DATE | 17th october2022 |
| TEAM ID | PNT2022TMID44881 |
| PROJECT NAME | Analytics for hospital healthcare data. |
| MAXIMUM MARKS | 4 marks |

upload

WEBSITE

IBM Cognos

INTERFACE

PRESENT

PREPARE

UPLOAD

IBM CLOUD

DATASET

EXPLORATION

TOOLS

DATABASE

VISUALIZATION

FILE STORAGE

**Table-1 Component &Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.no** | **component** | **Description** | **Technology** |
| **1** | User Interface | How the user interacts with the interface e.g. Web UI, etc. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| **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, NoSQL, etc. |
| **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 | List the open-source frameworks used. | IBM Cognos |
| 2 | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | Authentication and Authorization,Firewall,etc. |
| 3 | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | 3-tier Architecture can be implemented so that the project can be worked by splitting up into 3 tiers namely presentation tier, application tier, data tier. |
| 4 | Availability | Justify the availability of application (e.g. use of load balancers, distributed servers etc. | High availability enables your IT infrastructure to continue functioning even when some of its components fai |
| 5 | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc | A field of practice that uses various tools, processes, and ideas in a scientific manner to improve the desired outcomes of individuals and organization |