

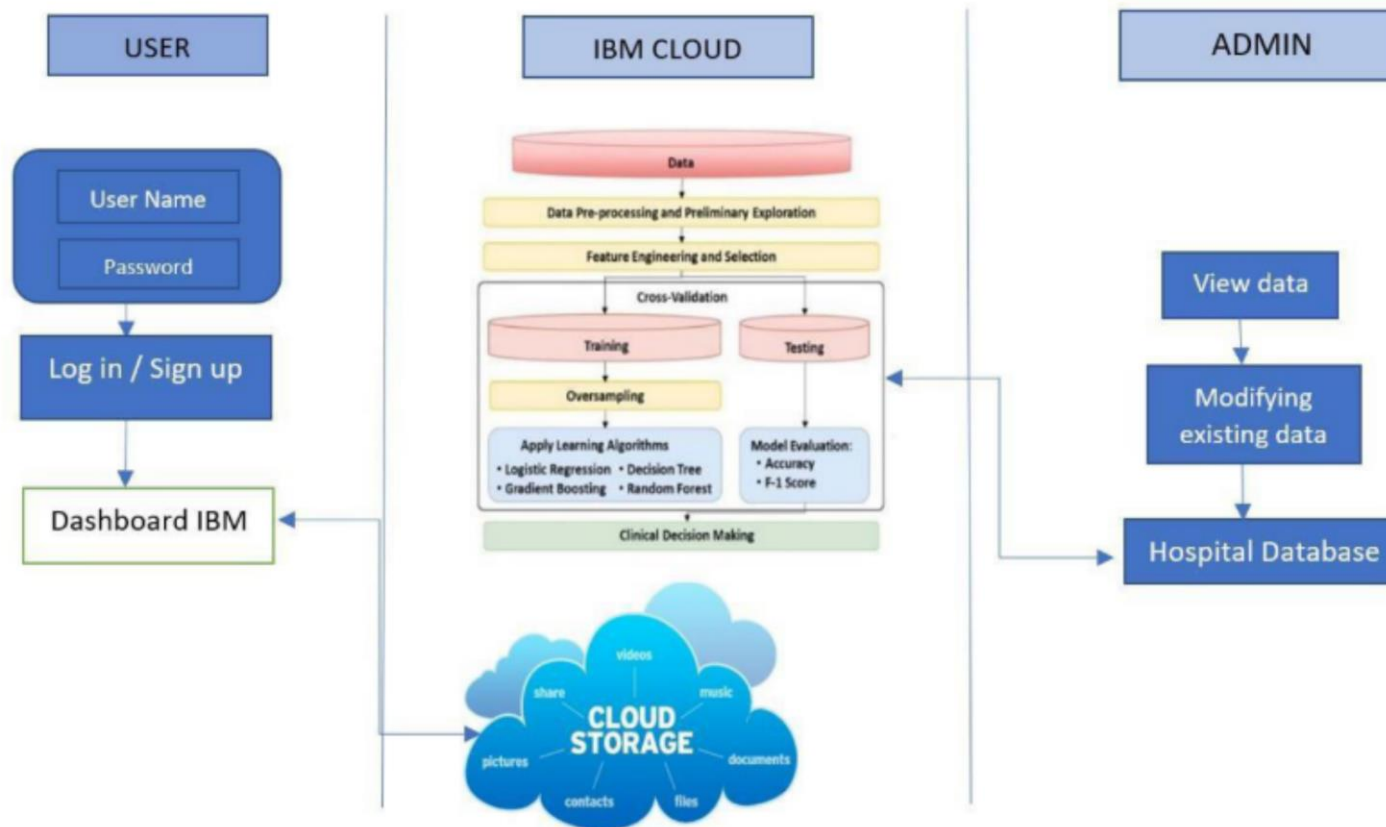
**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

|               |  |
|---------------|--|
| Date          | 03 October 2022                                  |
| Team ID       | PNT2022TMID44886                                 |
| Project Name  | Project –Analytics for hospital health care data |
| Maximum Marks | 4 Marks  |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2





**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, JavaScript / Angular Js / React Js etc.             |
| 2.   | Application Logic-1        | Logic for a process in the application                                    | Python   |
| 3.   | Application Logic-2        | Logic for a process in the application                                    | IBM Watson STT service   |
| 4.   | Application 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 DB2, IBM Cloudant etc.                                     |
| 7.   | File Storage               | File storage requirements   | IBM Block Storage or Other Storage Service or Local Filesystem |
| 8.   | Uploading and Presentation | Using Exploration and Visualization                                       | IBM Cognos Analytics   |

**Table-2: Application Characteristics:**

| S.No | Characteristics          | Description   | Technology  |
|------|--------------------------|---|---|
| 1.   | Open-Source Frameworks   | List the open-source frameworks used  | Technology of Opensource framework                  |
| 2.   | Security Implementations | List all the security / access controls implemented, use of firewalls etc.  | e.g. SHA-256, Encryptions, IAM Controls, OWASP etc. |
| 3.   | Scalable Architecture    | Justify the scalability of architecture (3 – tier, Micro-services)  | Technology used                                     |
| 4.   | Availability             | Justify the availability of application (e.g. use of load balancers, distributed servers etc.)                            | Technology used                                     |
| 5.   | Performance              | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Technology used                                     |

