**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 08 May 2023 |
| Team ID | NM2023TMID11499 |
| Project Name | Dissecting the Digital Landscape : A Comprehensive Analysis of Social Media |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Data Collection | Collect social media posts from Twitter API  Collect user profiles from Facebook API |
| FR-2 | Data Processing | Clean and preprocess collected data |
| FR-3 | Data Analysis | Perform topic modeling on social media data |
| FR-4 | Visualization | Create interactive dashboards for data visualization |
| FR-5 | Search and Filtering | Allow filtering of data by date, location, or user |
| FR-6 | Security | Implement user authentication and access controls |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The system should ensure data confidentiality and integrity, implementing encryption and access controls. |
| NFR-2 | **Security** | The system should be able to handle increasing data volumes and user activity, with the ability to scale horizontally or vertically. |
| NFR-3 | **Reliability** | The system should have a user-friendly interface, with intuitive navigation and clear instructions for user interactions. |
| NFR-4 | **Performance** | The system should process and analyze data efficiently, providing timely and responsive results to users. |
| NFR-5 | **Availability** | The system should be reliable and robust, minimizing downtime and ensuring continuous availability. |
| NFR-6 | **Scalability** | The system should be able to integrate with other systems or APIs for data exchange or to extend its functionality. |