Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	06 May 2023
Team ID	NM2023TMID001229
Project Name	Dissecting The Digital Landscape: A Comprehensive analysis of Social media

Functional Requirements:

The Functional Requirements Of The Proposed Solution For The Dissecting The Digital Landscape: A Comprehensive Analysis Of Social Media;

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication	As an admin user, I should be able to create an account and log into the system securely.
FR-2	Data Collection	As an admin user, I should be able to connect and integrate various social media platforms to collect data.
		As an admin user, I should be able to specify the type of data to collect, such as user profiles, posts, comments, likes, shares, etc
		As an admin user, I should have the option to schedule automated data collection at specific intervals.
FR-3	Data Storage	As an admin user, I should be able to store the collected data securely.
		As an admin user, I should have the ability to manage data storage, including options for backup and archiving.
FR-4	Data Mining and Analysis	As an admin user, I should have access to various data mining algorithms and techniques for analyzing social media data.
		As an admin user, I should be able to perform sentiment analysis to understand the sentiment behind social media posts and comments.
		As an admin user, I should be able to identify trends and patterns in social media data.
		As an admin user, I should have the capability to perform network analysis to understand the relationships and interactions between users and entities.
		As an admin user, I should be able to analyze user behavior and engagement metrics.
FR-5	Data Visualization	As an admin user, I should have access to visualization tools to represent analyzed data in the form of charts, graphs, and other visual representations

FR-6	Reporting and Communication	As an admin user, I should be able to generate comprehensive reports summarizing the analysis results and insights.
		As an admin user, I should have the ability to share reports with stakeholders within the organization.
FR-7	Performance Monitoring	As an admin user, I should be able to monitor the performance and effectiveness of social media campaigns and strategies based on the analysis results.
		: As an admin user, I should have the option to set up automated alerts and notifications based on specific events or thresholds identified through the analysis.

Non-functional Requirements:

The Non-Functional Requirements Of The Proposed Solution For The Dissecting The Digital Landscape: A Comprehensive Analysis Of Social Media ;

FR No.	Non-Functional Requirement	Description
NFR-1	Performance	The system should be able to handle large volumes of data efficiently and perform analysis tasks within acceptable response times. It should be scalable to accommodate increasing data and user loads.
NFR-2	Security	The system should enforce robust security measures to protect sensitive data, ensure user authentication and authorization, and prevent unauthorized access or data breaches
NFR-3	Reliability	The system should be reliable and available, minimizing downtime and ensuring data integrity. It should have backup and recovery mechanisms to handle potential failures or disruptions.
NFR-4	Usability	The system should have a user-friendly interface that is intuitive and easy to navigate, allowing both admin users and non-technical users to interact with the analysis tools effectively.
NFR-5	Compatibility	The system should be compatible with various social media platforms, ensuring seamless integration and data collection from different sources.
NFR-6	Scalability	The system should be designed to handle increasing data volumes and user loads without compromising performance or

			functionality. It should be able to scale horizontally or vertically as required.
NFR-7	Data Privacy		The system should adhere to data privacy regulations and best practices, ensuring that personally identifiable information (PII) and sensitive data are handled and stored securely.
NFR-8	Flexibility		The system should be flexible enough to accommodate different analysis techniques and algorithms, allowing admin users to customize and configure the analysis process based on specific requirements.
NFR-9	Reporting and Visualization		The system should provide comprehensive reporting capabilities, allowing users to generate meaningful reports and visualizations that effectively communicate the analysis results and insights.
NFR-10	Performance Monitoring		The system should have monitoring mechanisms in place to track system performance, identify bottlenecks, and proactively address any issues to maintain optimal performance.