Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Team ID | NM2023TMID21570 |
| Project Name | Empowering the Future: A literacy Rate Analysis for a Better Tomorrow |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Data Input | The system accepts literacy rate data as input. |
| FR-2 | Data Processing | It processes the input data to calculate literacy rates. |
| FR-3 | Data Visualization | It provides visual representations of the literacy rates through charts or graphs. |
| FR-4 | Statistical Analysis | It performs statistical analysis on the literacy rate data, such as mean, median, and standard deviation. |
| FR-5 | User Authentication and Authorization | It supports user authentication and access control to ensure data security. |
| FR-6 | Reporting | It generates reports summarizing the literacy rate analysis results. |
| FR-7 | Scalability | It allows for the system to handle increasing amounts of data and users. |
| FR-9 | Maintenance and Support | It includes a maintenance and support plan for the system's |

**Non-functional Requirements**:

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

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| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | It is designed to be user-friendly and intuitive for users with varying levels of technical expertise. |
| NFR-2 | Security | It adheres to strict privacy and security protocols to protect the confidentiality of sensitive literacy data. |
| NFR-3 | Reliability | The system operates consistently without failure or downtime, and it can recover quickly from unexpected issues. |
| NFR-4 | Performance | The system can efficiently process a large volume of literacy data with minimal delays and errors. |
| NFR-5 | Quality | It provides accurate and reliable results for literacy rate analysis, minimizing false positives and negatives. |
| NFR-6 | Scalability | The system can scale up or down to handle varying volumes of literacy data as needed. |
| NFR-7 | Maintainability | It is easy to maintain, update, and upgrade the system to ensure ongoing functionality and accuracy. |
| NFR-8 | Compatibility | The system is compatible with various hardware and software platforms, enabling integration with different tools. |