# Project Design Phase-II
# Solution Requirements (Functional & Non-functional)

| Date | 12 May 2023 |
|---|---|
| Team ID | NM2023TMID01225 |
| Project Name | Empowering the Future: A Literacy Rate Analysis for a Better Tomorrow |

## Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | User Registration | ❖ Provide a user registration form with fields for username, email, and password.<br><br>❖ Validate and store user registration information in the database. |
| FR-2 | User Confirmation | ❖ Send a confirmation email to the registered user's email address.<br><br>❖ Include a unique confirmation link in the email for user verification.<br><br>❖ Verify the user's email address upon clicking the confirmation link. |

## Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | Usability | ❖ The solution should have a user-friendly interface and intuitive navigation to ensure ease of use for users. |
| NFR-2 | Security | ❖ The solution should implement appropriate security measures, including data encryption, access control, and user authentication, to protect user information and maintain data confidentiality. |
| NFR-3 | Reliability | ❖ The solution should be reliable and consistently available to users, minimizing downtime and ensuring data integrity. |
| NFR-4 | Performance | ❖ The solution should perform efficiently and provide a responsive user experience, handling a large volume of users and data without significant delays or performance issues. |
| NFR-5 | Availability | ❖ The solution should be highly available, with minimal planned or unplanned downtime, to ensure uninterrupted access for users. |
| NFR-6 | Scalability | ❖ The solution should be scalable to accommodate future growth and increasing user demands, allowing for easy expansion and adaptation to changing needs and requirements. |