

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

Date	12 May 2023
Team ID	NM2023TMID09663
Project Name	Perinatal health risk prediction using machine learning

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	Registration through phone number Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Communication	The website should be able to communicate risk assessments and recommendations to healthcare providers and patients in a clear manner.
FR-4	Data Collection and Integration	The system should collect and integrate data from various sources such as electronic health records, patient questionnaires, and wearable devices to provide a comprehensive view of the patient's health status and risk factors. Develop quality control measures to ensure data completeness, accuracy, and consistency.
FR-5	User credentials	Generate a unique user ID or username for each registered user.
FR-6	Risk assessment	Implement the risk assessment model as a web-based application, allowing healthcare providers and patients to access personalized risk scores and recommendations.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The website should be easy to use, with a simple and intuitive interface that allows healthcare providers and patients to access and interpret the risk assessments and recommendations.
NFR-2	Security	The website should be secure, with appropriate measures in place to protect patient data and prevent unauthorized access or data breaches.
NFR-3	Reliability	The website should be reliable, with minimal downtime or errors, in order to ensure that healthcare providers and patients can access their risk assessments and recommendations when needed.
NFR-4	Performance	The website should be fast and responsive, with minimal latency when loading pages or generating risk assessments.
NFR-5	Availability	The website should be available 24/7, with minimal scheduled maintenance windows, in order to ensure that healthcare providers and patients can access their risk assessments and recommendations at any time.
NFR-6	Scalability	The website should be able to handle a large volume of users and data, with the ability to scale up or down as needed to meet demand.