

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

Date	26 june 2025
Team ID	LTVIP2025TMID60884
Project Name	Revolutionizing Liver Care: Predicting Liver cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Patient Registration	Registration through Form - Registration via Gmail - Registration via LinkedIn
FR-2	Account verification	-Email confirmation -OTP verification
FR-3	Health profile management	-Add/Edit medium history -upload lab report – input symptoms and vitals
FR-4	Appointment booking	-Schedule doctor consultation -view available time slots -Rechedules or cancel appointment.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Intuitive user interface accessible to users of all age groups, including patients and doctors
NFR-2	Security	Secure login, encrypted medical data storage, GDPR and HIPAA compliance
NFR-3	Reliability	System must ensure uptime of 99.9% with automatic backup and failover mechanisms
NFR-4	Performance	Real-time data processing for symptom tracking and AI predictions; responsive on low-bandwidth networks
NFR-5	Availability	Cloud-based infrastructure with 24/7 accessibility and global reach

NFR-6	Scalability	Ability to handle an increasing number of users, data volume, and AI processing load without affecting performance
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