

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

Date	19 October 2022
Team ID	PNT2022TMID52707
Project Name	Statistical Machine Learning Approaches To Liver Disease Prediction
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	User Registration	Getting users login credentials
FR-2	User Login Verification	Verifying users login credentials
FR-3	User Information	Getting information about patient liver condition.
FR-4	User Validation	Validating the acquired information of the user
FR-5	Disease Prediction	Predict whether the patient having the disease or not.
FR-6	User Report Generation	Generates the predicted result of the patient.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The system provides a natural interaction with the users. It is user-friendly.
NFR-2	<b>Security</b>	The model enables with the high security system, as the user's data won't be shared to the other sources. Only the authorized person can access the system.
NFR-3	<b>Reliability</b>	As the system is build using a rich Ensemble model, mostly all the user input can be processed without failure in 95 per cent of use cases and since all the processing are done on cloud, the system is consider to be highly reliable.
NFR-4	<b>Performance</b>	Our system should run on 32 bit (x86) or 64 bit (x64) Dual-core 2.66-GHZ or faster processor.
NFR-5	<b>Availability</b>	The system should be available for the duration of the user access, until the user terminate the access.

		The system response to request of the user in less time and the recovery is done is less time.
NFR-6	<b>Scalability</b>	It provides an efficient outcome and has the ability to increase or decrease the performance of the system based on the datasets. It is cost effective and user friendly.