

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

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Project Name	Statistical Machine Learning Approaches To LiverDisease 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	Registration through Form present in liver diseaseprediction website
FR-2	User Confirmation	Confirmation via Email. An email will be sent to user onregistered email for confirmation.
FR-3	Patient details like age, proteins,enzyme etc	Collected via website input fields
FR-4	Prediction	Based on liver enzymes, proteins, age and gender using them to try and predict the likeliness of liverdisease.
FR-5	Retrieval(Database)	Whenever we need user data we can get it fromdatabase.
FR-6	Internet connection	As it is web based application user must have internet connectivity to access it.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easily usable as it is web based application people can just type URL to get the web page.
NFR-2	Security	Highly secured by getting SSL certificate.
NFR-3	Reliability	Consistently good in quality and is trusted because we are securely storing the data in database and no one can steal.
NFR-4	Performance	Performance is high as we are using various Machine learning algorithms find the best accurate model. And integrate to flask based web application. Therefore performance rich.
NFR-5	Availability	Application will be active once user registers with it and can be used any time needed.
NFR-6	Scalability	Highly scalable as we are going to use IBM Cloud.

