

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

Date	15 October 2022
Team ID	PNT2022TMID39927
Project Name	PROJECT– FERTILIZERS RECOMMENDATION SYSTEM FOR 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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User input	Upload diseased leave
FR-4	Processing of user input	Image acquisition, pre-processing, image segmentation
FR-5	Feature extraction of user image	Machine learning algorithms, image classification, data mapping
FR-6	Result of user input	Display the disease name and fertilizer lack for the issues

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Clarity, utility, precise, and well formatted
NFR-2	Security	Use of SSL Encryption
NFR-3	Reliability	Avoid anonymous authors
NFR-4	Performance	High speed of response, throughput, execution time, and storage capacity
NFR-5	Availability	High maximum potential uptime and accessibility for content stored on it
NFR-6	Scalability	Increasing system capacity ,typically through replication, and optimization of system components