

Project Design Phase – II

Solution requirements (functional and non-functional)

Date	15 October 2022
Team id	PNT2022TMID46 681
Project name	Fertilizer recommendation system for disease prediction
Maximum marks	4 marks

Functional requirement :

Following are the functional requirements of the proposed solution

Fr.no	Functional requirement	Sub requirement (story/subtask)
Fr-1	User registration process	Registration through the Gmail
Fr-2	User confirmation process	Confirmation via OTP/Email
Fr-3	Capturing image of leaf	Image of the leaf will be captured.
Fr-4	Image processing to prediction	To predict the disease of the leaf by uploading a image.
Fr-5	Leaf identification for suggestion	Identify and predict the disease.
Fr-6	Image description	Analyze the leaf and suggest suitable fertilizer/pesticide for the disease.

Non-functional requirement:

Following are the non-functional requirement of the proposed solution

NFr.no	Non-functional requirement	Description
Nfr-1	Usability	To detect the disease which present in the leaf by datasets.
Nfr-2	Security	The information are encrypted and secured .
Nfr-3	Reliability	To predict the disease most important is leaf quality.
Nfr-4	Performance	Based on the quality of leaf.
Nfr-5	Availability	It is available for all to predict and get suggestion of disease.
Nfr-6	Scalability	Prediction of disease in leaves will be increased.