

Project Design Phase-II
Functional & Non-functional Requirements

Date	25 October 2022
Team ID	PNT2022TMID52605
Project name	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	Sub Requirement
1	User Input	User needs to upload the image of a leaf of the infected plant.
2	Feature Extraction	The required features to make the predictions are extracted from the uploaded image to yield the best result.
3	Model Prediction	Pre-processed image is then fed into the pretrained model and disease is predicted by the model.
4	Result Display	The disease identified by the model is then displayed to the user through the application's user interface
5	Recommendation	Fertilizers that cures the identified disease is suggested to the user.

Non-functional Requirements:

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

NFR No.	Non-functional Requirement	Description
1	Usability	An easy-to-use UI with guidelines for smooth user experience.
2	Performance	Capable of producing results in few seconds with high responsiveness.
3	Scalability	Can handle growing number of users without compromising performance.
4	Availability	Can accessible anywhere at any time with good internet service.