

**Project Design Phase – II**  
**Solution Requirements (functional and non-functional)**

Date	31 October 2022
Team id	PNT2022TMID48803
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 (story/subtask)
Fr-1	User registration	Registration through form Registration through Gmail
Fr-2	User confirmation	Confirmation via OTP Confirmation via Email
Fr-3	Capturing image	Capture the image of the leaf And check the parameter of the captured image.
Fr-4	Image processing	Upload the image for the prediction of the disease in the leaf.
Fr-5	Leaf identification	Identify the leaf and predict the disease in leaf.
Fr-6	Image Description	Suggesting the best fertilizer for the disease.

**Non-functional requirement:**

Following are the non-functional requirement of the proposed solution

<b>NFr.no</b>	<b>Non-functional requirements</b>	<b>Description</b>
Nfr-1	Usability	Datasets of all the leaf is used to detecting the disease that present in the leaf.
Nfr-2	Security	The information belongs to the user and leaf are secured highly.
Nfr-3	Reliability	The leaf quality is important for the predicting the disease in leaf.
Nfr-4	Performance	The performance is based on the quality of the leaf used for disease prediction
Nfr-5	Availability	It is available for all user to predict the disease in the plant
Nfr-6	Scalability	Increasing the prediction of the disease in the leaf