

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

Date	27 October 2022
Team ID	PNT2022TMID31070
Project Name	Project – Fertilizer 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 Login	Login with user name Login with password
FR-4	Profile update	Update the user credentials Update the Contact details
FR-5	Uploading Images	Capture the image of the affected Crop Upload the image of the affected Crop This model will predict the disease of the affected Crop
FR-6	Recommendation	User will request the fertilizer Get the fertilizer recommendations
FR-7	Ratings and Reviews	Share their Experiences Give the Feedback

## Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	This service is designed and can be used on both website and mobile browsers so that the usability of this application is very efficient.
NFR-2	<b>Security</b>	This can be used only by users who have their proper login credentials
NFR-3	<b>Reliability</b>	In case of any issues such as the delay in the responses, it will be rectified to maintain its reliability.
NFR-4	<b>Performance</b>	Sometimes the wrong predictions occur due to the inaccuracy of the model at a rare point, in order to rectify this, this application will run the model more than one time to predict the exact result and recommends the fertilizer for that disease.
NFR-5	<b>Availability</b>	It will predict any type of new disease by learning from the available dataset and predict the disease accurately.
NFR-6	<b>Scalability</b>	It can be accessed by a greater number of users at the same time without any performance issues.