

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

Date	03 October 2022
Team ID	PNT2022TMID17856
Project Name	Project - Estimate the crop yield using data analytics
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
FR-2	User Confirmation	Confirmation via Email
FR-3	User Authentication	Authenticate the user's attempt to login using the database.
FR-4	Yield Forecasting	Crop yield analysis by area, season, climate.
FR-5	Farmer Management	Validating and managing the registered farmer details
FR-6	Crop Management	Add/Delete different types of crop details to the system.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system must be user friendly allowing the users to ease navigation within the system and also the system must be more interactive.
NFR-2	Security	The users must be ensured of data security as the user enters sensitive data into the system.
NFR-3	Reliability	The system must be less prone to error.
NFR-4	Performance	The performance of the system must assist the system's quality
NFR-5	Availability	The system's response time must be less in order to satisfy the user expectations
NFR-6	Scalability	The system must be able to handle an increase in workload without performance degradation.