

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

Date	05 November 2022
Team ID	PNT2022TMID29071
Project Name	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 Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via SMS
FR-3	User login	Login using username and password
FR-4	User verification	Verification using credentials stored in database
FR-5	Data analysis	Analyse the crop yield pattern, weather pattern, etc
FR-6	Feeding test data	Provide data regarding crop, weather conditions, etc for prediction

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Analytical model can be used by analyst, small scale and large scale farmers.
NFR-2	Security	This application is not vulnerable to any security attacks.
NFR-3	Reliability	The model can only be accessed by authorized user.
NFR-4	Performance	The analytical model can take in large amounts of data and can analyse and visualize rapidly and produce results.
NFR-5	Availability	The model can be accessed at anytime and anywhere.
NFR-6	Scalability	The model can be used for small scale and large scale purpose.