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

Date	20 October 2022
Team ID	PNT2022TMID38310
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	Utilizing a form for Registration and Signing up with Gmail registering via WhatsApp, Utilizing Agri - Consultancy to register.
FR-2	User Confirmation	Email confirmation required Reassurance via OTP verification via Letter.
FR-3	User Profile	1. User Information 2. Farm Information
FR-4	Required Data	The user's (farmer's) data to analyse the previous crop yield
FR-5	Analysis	Clean up, prepare and analyze the previous data from multiple users (farmer)
FR-6	Estimation	Developing the ideal data module and visuals in IBM Cognos to improve crop yield estimation.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Data reports are produced based on the historical data itself. These recommendations will advise or consult on crop sowing.
NFR-2	Security	The user information is protected with IBM Cognos (Data Visuals)
NFR-3	Reliability	Reliability can be achieved with the saved dataset in the Cognos platform.
NFR-4	Performance	Better performance among all users is made possible through interaction, and the visual advice is impressive.
NFR-5	Availability	The dashboard is easily accessible and can be accessed on any smartphones, laptops, systems, etc.
NFR-6	Scalability	The proposed solution's flexibility in implementation makes it very simple to boost crop yield estimation in various farms.