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

Date	01 November 2022
Team ID	PNT2022TMID17814
Project Name	Project - Estimate the Crop Yield using Data Analytics

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Sub-Task)
1	User Registration	Registration through Whatsapp Registration through Gmail Registration through Mail Registration through Agri-Consultancy modes.
2	User Confirmation	Confirmation via Email Confirmation via OTP through SMS. Confirmation via physical Letter.
3	User Profile	User Details Farm Details
4	Required Data	The past crop yield data and data of the Farmer to analyze their yield.
5	Analysis	Clean , Analyze the data by means of set of past data of the multiple users which is farmers.
6	Estimation	Creating the perfect data module, visuals using IBM Cognos to increase the estimation of the crop yield

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
1	Usability	The data report is created according to the past data yield. By considering these recommendation the sowing of crops will be decided.
2	Security	IBM Cognos have a high-secure user information.
3	Reliability	The interactive data visuals of the dashboard can make easy to understand by the farmers.

4	**Performance**	Interaction makes better performance between all user and the visuals through visualization.
5	**Availability**	The dashboard could be easily viewed and available in every devices like smartphones, laptops, systems etc..
6	**Scalability**	The flexibility to implement the proposed solution is very easy that results in increasing of the estimation of crop yield compared to farms for different user.