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

Date	15 November 2022
Team ID	PNT2022TMID32482
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 (Sub-Task)
1	**User Registration**	Registration through Gmail Registration through Mail Registration through Agri-Consultancy modes.
2	**User Confirmation**	Confirmation via Email Confirmation via OTP throughSMS. Confirmationvia 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.