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

Date	13 October 2022
Team ID	PNT2022TMID32817
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 Registration through Gmail Registration through Agri-Consultancy
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Profile	User Details
FR-4	Required Data	The past year's crop yield data set Farm yield methodology Seasonal and Regional details
FR-5	Analysis	Data cleaning and analysis of the past year crop yields. Visualizing the dataset using IBM Cognos.
FR-6	Estimation	Creating the perfect data module through attractive stories, dashboard and reports to increase the understandability of data.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	According to the past data itself, data report is created. By this recommendation the sowing of crops will be advised or consulted
NFR-2	**Security**	IBM Cognos is designed to meet the need for security in different environment.
NFR-3	**Reliability**	The interactive data visualizations available in the dashboard makes it easy to understand the data or insights.
NFR-4	**Performance**	Usage of Data-Analytics in the field of Agriculture increases the profitability obtained and improves the crop integrity and quality.
NFR-5	**Availability**	The dashboard could be easily accessed and available across all web-browsers.
NFR-6	**Scalability**	This lets you predict the crop for the forthcoming year. It gives you a variety of crops to choose from and lets you know about the crops with better profitability in your region.