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

Date	07 November 2022
Team ID	PNT2022TMID03011
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 Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Profile	User Details Farm Details
FR-4	Required Data	The previous year crop yield data set Farm yield methodology User data of the farmer Details of the Seasons and the Regions
FR-5	Analysis	Cleaning and analysis of the past year crop yields Visualizing the datasets 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**	From the given datasets , analysis is done and a report is created. Accordingly, sowing of crops is recommended.
NFR-2	**Security**	Usage of IBM COGNOS, will provide secure user information(Data Visualization)
NFR-3	**Reliability**	Using the interactive data visual dashboards , we can easily understand the data reports.
NFR-4	**Performance**	Interaction makes better performance between all users and impresses by the data visuals advice.
NFR-5	**Availability**	The dashboard is easily available and accessible in smartphones and PC's.
NFR-6	**Scalability**	Prediction of crops for the forthcoming year can be done .It gives you a variety of crops to choose from our region.Also to know the better profitability of crops.