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

Date	15 October 2022
Team ID	PNT2022TMID46778
Project Name	Project - ESTIMATION OF 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 Updation	Updation of user's details
FR-4	User Login Credentials	Login with username and password
FR-5	User Dashboard	Take the data given by user and interactive dashboard can be created.
FR-6	Analysis and Estimation	Analyse the yield of crop from the data and estimate the crop yield using the Data Driven Approach I.e. Cognos Analytics with Watson.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	All the data which is needed will be displayed in one which is easily understandable and will be useful for user to enhance the crop yield with higher accuracy and also they can get the insights of crop production.
NFR-2	**Security**	Only recognized users can access the resource.
NFR-3	**Reliability**	A new Visualization and dashboard that is added or erased it won't affect other dashboards.
NFR-4	**Performance**	Data analytics helps in executing the existing algorithms faster with large data sets.Therefore,it will be helpful to farmers, Investors, Land owners and Business persons to gain profit in yield.
NFR-5	**Availability**	By using the technique of Precision farming,resource allocation can be made to make resources available

		at anytime to achieve high yield.
NFR-6	**Scalability**	The data stored can be viewed and retrieved at anytime and anywhere.