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

Date	18 October 2022
Team ID	PNT2022TMID10801
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	Account Creation	Create an account in the dashboard
FR-4	Processing Methods	Using IBM Cognos Analytics Dashboard using Prediction algorithm to find them
F5-5	Project Upload	Uploading the project according to the problem statement provided

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	One of the top nations for grain production is India. In accordance with the project, we will analyse some significant visualisations and build a dashboard. The benefit of this dashboard is that all the necessary data will be presented in a single, intuitive presentation. There is no need for additional dashboards individually.
NFR-2	**Security**	Only the system administrator has the ability to change the access permission for a certain system's information. A high level of security must be maintained by the user. Before attempting to log into their account on a new device, for instance, any user's registered email address or mobile number will receive a verification code.
NFR-3	**Reliability**	Farmers now have access to information that can help them forecast the state of the market for finished commodities and other relevant factors.
NFR-4	**Performance**	With massive data sets, data analytics makes it possible to run current algorithms more quickly. Data processing, which includes the processing of raw data collections, is one of the key elements.

NFR-5	**Availability**	With the help of data analytics, agricultural production may be predicted sooner, even before seeds are sown, increasing productivity.
NFR-6	**Scalability**	It can accommodate many people logging in simultaneously. When farmers and customers are utilised to analyse the crop, the dashboard is scalable.