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

Date	14 October 2022
Team ID	PNT2022TMID15473
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
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
FR-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**	India is one of the top countries to produce crops. As per this project we will be analyzing some important visualization, creating a dashboard. The feature of this dashboard is, all the data which is needed will be displayed in one which is easily understandable. No other dashboards are required separately.
NFR-2	**Security**	Access permission for the particular system information it can only change by the system admin. The user must be having a high security measures. For Eg, a verification code will be provided to the registered email address or mobile number of any user before they attempt to log into their account on a new device.
NFR-3	**Reliability**	Farmers are now entitled with the insights that can help them predict the market condition towards the finished goods and other related variables.
NFR-4	**Performance**	Data analytics helps in executing the existing algorithms faster with large data sets. One of the important features is data processing which involves the processing of raw data collections.
NFR-5	**Availability**	With data analytics crop yield can prediction can be done earlier even before sowing seeds which results more productivity.

| NFR-6 | **Scalability** | It can be support many users to access at a time. The dashboard is scalable for the crop when their farmers and customers is used to analysis. |