

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

Date	15 October 2022
Team ID	PNT2022TMID02241
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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Dataset Requirement	Understanding the Dataset and then Load it to Cloud platform then Build the required Visualizations to provide visual analytical solutions
FR-4	Data Visualization charts	creating various graphs and charts to highlight the required insights and visualizations

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The Insights are useful for farmers, Indian government or anyone related to agriculture sector
NFR-2	<b>Security</b>	The data is securely loaded in IBM cloud platform and also Cognos security is a component of the IBM Cognos framework that manages user access to data.
NFR-3	<b>Reliability</b>	The insights are accurate and useful for analysis and interpretation.
NFR-4	<b>Performance</b>	Predicts accurate results and also faster
NFR-5	<b>Availability</b>	The insights are available to users anytime and user can also fetch required results anywhere, anytime
NFR-6	<b>Scalability</b>	It can be scaled well by adding different features or data and can still get useful insights according to data