

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

Date	18 October 2022
Team ID	PNT2022TMID53331
Project Name	Project-Estimate the Crop Yield using Data Analytics

**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	Details of User Details of Farm
FR-4	Required Data	Historical data of Crop Yield User Data(Farmer) to analyse
FR-5	Analysis	Data Pre-processing and analysis using IBM Cognos analytics Platform
FR-6	Estimation	To create an Interactive Dashboard visualizing the great insights about the estimation of Crop Yield.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	According to the past data, report is created. Crops to be sown in different Seasons will be advised or consulted to the farmers based on the Data Report.
NFR-2	<b>Security</b>	IBM Cognos platform have a secure user information.
NFR-3	<b>Reliability</b>	The interactive dashboard can make easily understandable of the data report.
NFR-4	<b>Performance</b>	Interaction makes better performance between all users and impressing by the visual advise.
NFR-5	<b>Availability</b>	The dashboard could be easily viewed and available in every smartphones, laptops, systems etc.
NFR-6	<b>Scalability</b>	The flexibility of the methodology to implement the proposed solution is very easy that can make increase in the estimation of crop yield in the different farms for different users.