

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

Date	17 October 2022
Team ID	PNT2022TMID31901
Project Name	Project - Estimate the crop yield using data analytics
Maximum Marks	4 Marks

**Functional Requirements:**

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through WhatsApp Registration through Agriculture & Farmers Welfare
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP Confirmation via Letter
FR-3	User Profile	User Details Farm Details
FR-4	Required Data	The past crop yield data the Farmer (user) data to analyse.
FR-5	Analysis	Data should be cleaned and analysed according to the set of past data of the multiple user.
FR-6	Estimation	Creating the perfect solution data module, visuals using IBM Cognos Analytics to increase the estimation of the crop yield.

**Non-functional Requirements:**

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Based on the past crop yield data, data report is created. By these recommendation the sowing of crops will be advised or consulted.
NFR-2	<b>Security</b>	IBM Cognos have a secure user information (Data Visuals).
NFR-3	<b>Reliability</b>	The interactive data visuals such as dashboard can make easily understand about the data report.
NFR-4	<b>Performance</b>	Interaction makes better performance between all user and more impressive by the visual advise.
NFR-5	<b>Availability</b>	The dashboard could be easily viewed and available in every Smart Phones, 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 production of crop yield in the different farms of different user.