

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

Date	13 October 2022
Team ID	PNT2022TMID23108
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 Registration through WhatsApp Registration through Agri-Consultancy
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 user (Farmer) data to analyse
FR-5	Analysis	Clean and analyse the data according to the set of past data of the multiple users (Farmer)
FR-6	Estimation	Creating the perfect data module, visual using IBM Cognos to increase the estimation of the 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 itself, data report is created. By these recommendations, the sowing of crops will be advised or consulted
NFR-2	<b>Security</b>	IBM Cognos has a secure user information (Data Visuals)
NFR-3	<b>Reliability</b>	The interactive data visual dashboard can make it easy to understandable of the data report
NFR-4	<b>Performance</b>	Interaction makes better performance between a user and impressing by the visual advice
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 estimation of crop yield in the different farms for different user

