

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

Date	13 October 2022
Team ID	PNT2022TMID17362
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, visuals 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	Usability	According to the past data itself, data report is created.By these recommendation the sowing of crops will be advised or consulted
NFR-2	Security	IBM Cognos have a secure user information(Data Visuals)
NFR-3	Reliability	The interactive data visuals dashboard can make easily understandable of the data report
NFR-4	Performance	Interaction makes better performance between all user and impressing by the visual advise
NFR-5	Availability	The dashboard could be easily viewed and available in every smartphones, laptops, systems etc..
NFR-6	Scalability	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 differ farms for different user