PROJECT DESIGN PHASE – II

Solution Requirements (Functional & Non-functional)

Date	**17 October 2022**
Team ID	**PNT2022TMID30683**
Project Name	**Estimate the Crop Yield using Data Analytics**
Maximum Marks	**4 Marks**

Functional Requirements:

The suggested solution's functional requirements are listed below:

FR.NO	Functional Requirement (Epic)	Sub Requirement (story /sub - task)
FR.1	User Registration	Utilizing a Form for Registration signing up with Gmail registering via WhatsApp Utilizing Agri-Consultancy to register
FR.2	User Confirmation	Email confirmation required Reassurance via OTP Verification via Letter
FR.3	User Profile	User Information Farm Information
FR.4	Required Data	The user's (farmer's) data to analyse the previous crop yield
FR.5	Analysis	Clean up and analyse the data in light of a collection of previous data from multiple users (Farmer)
FR.6	Estimation	Developing the ideal data module and visuals in IBM Cognos to improve crop yield estimation

Non-functional Requirements:

The suggested solution's Non-functional requirements are listed below:

NFR.NO	Non-Functional Requirements	Description
NFR.1	Usability	Data reports are produced based on the historical data itself. These recommendations will advise or consult on crop sowing.
NFR.2	Security	The user information is protected with IBM Cognos (Data Visuals).
NFR.3	Reliability	The dynamic data graphics dashboard can make the data report simple to interpret.
NFR.4	Performance	Better performance among all users is made possible through interaction, and the visual advice is impressive.
NFR.5	Availability	The dashboard is easily accessible and can be accessed on any smartphones, laptops, systems, etc.
NFR.6	Scalability	The proposed solution's flexibility in implementation makes it very simple to boost crop yield estimation in various farms for various users.

Non-functional Requirements:

The suggested solution's Non-functional requirements are listed below: