

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

Date	19 October 2020
Team Id	PNT2022TMID34790
Project title	Estimate the Crop Yield using Data Analytics
Maximum Marks	4

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	User Details Farm Details
FR-4	Required Data	The previous year crop yield data set Farm yield methodology User data of the farmer Details of the Seasons and the Regions
FR-5	Analysis	Cleaning and analysis of the past year crop yields Visualizing the datasets using IBM Cognos
FR-6	Estimation	Creating the perfect data module through attractive stories, dashboard and reports to increase the understandability of data.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	From the given datasets , analyzing is done and report is created. Accordingly, sowing of crops are recommended.
NFR-2	Security	Usage of IBM COGNOS, will provide secure user information(Data Visualization)
NFR-3	Reliability	Using the interactive data visual dashboards , we can easily understand the data reports.
NFR-4	Performance	Interaction makes better performance between all user and impressing by the data visuals advice.
NFR-5	Availability	The dashboard is easily available and accessible in smartphones and PC's.
NFR-6	Scalability	Prediction of crop for the forthcoming year can be done .It gives you a variety of crops to choose from our region.Also to know the better profitability of crops.