

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

Date	18 October 2022
Team ID	PNT2022TMID24138
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 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	<b>Usability</b>	From the given datasets , analyzing is done and report is created. Accordingly, sowing of crops are recommended.
NFR-2	<b>Security</b>	Usage of IBM COGNOS, will provide secure user information(Data Visualization)
NFR-3	<b>Reliability</b>	Using the interactive data visual dashboards , we can easily understand the data reports.
NFR-4	<b>Performance</b>	Interaction makes better performance between all user and impressing by the data visuals advice.
NFR-5	<b>Availability</b>	The dashboard is easily available and accessible in smartphones and PC's.
NFR-6	<b>Scalability</b>	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.