

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

Date	14 October 2022
Team ID	PNT2022TMID13713
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	<ul style="list-style-type: none">• Registration through Form• Registration through Gmail• Registration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">• Confirmation via Email• Confirmation via OTP
FR-3	User Profile	<ul style="list-style-type: none">• Users Details
FR-4	Required Data	<ul style="list-style-type: none">• The crop yield from previous year• yield management• Regional & seasonal information
	Analysis	<ul style="list-style-type: none">• Data analysis of crop yields from previous year use IBM Cognos to visualise the dataset.
	Estimation	<ul style="list-style-type: none">• Making ideal data module with eye-catching tales.• Dashboards.• reports to improve 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	<ul style="list-style-type: none">• A data report is generated based on the previous data.• Recommendation will advise or consult on crop sowing.
NFR-2	Security	<ul style="list-style-type: none">• IBM Cognosis is designed to meet security needs of various environments.
NFR-3	Reliability	<ul style="list-style-type: none">• The dashboard's interactive data visualisations make simple to understand the data
NFR-4	Performance	<ul style="list-style-type: none">• The use of data analytics in agriculture increases profitability .• while also improving crop integrity and quality.
NFR-5	Availability	<ul style="list-style-type: none">• The dashboard should be simple to use and accessible from any web browser.
NFR-6	Scalability	<ul style="list-style-type: none">• This allows to forecast the crop for the year.• It provides with a variety of crops to choose• informs about the crops with the highest profitability in your region.