

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

DATE	03 OCTOBER 2022
Team ID	PNT2022TMID54302
Project Name	Estimate the crop yield using data analytics
Maximum Marks	4 Marks



Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Gmail Registration through IBM Cognos analytics
FR-2	User Confirmation	Email confirmation & OTP verification
FR-3	Data collection	Various datasets are collected and processed
FR-4	Data processing	Working with datasets collected
FR-5	Data visualization	Data visualization charts can be done through IBM cognos analytics

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is completely user friendly. As it is designed to provide support for agriculturalists and farmers, the user experience is simple and efficient.
NFR-2	Security	Should be secured with unique and standard user id and password with integration with mail id.
NFR-3	Performance	With efficient usability and increased security, the performance in turn is increased.
NFR-4	Reliability	This deals with lots of previous data undergoing machine learning techniques and thus provides reliable output.
NFR-5	Scalability	Will have more datasets loaded in and thus performance does not vary with the increased need/demand.
NFR-6	Availability	Can be made available in all platforms with minimum constraints and a stable speed network connection.