

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

Date	03 October 2022
Team ID	PNT2022TMIN19454
Project Name	Project – Estimate 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 Update	Updating personal details Updating educational details
FR-4	User Login	Login with username and password
FR-5	User Dashboard	Performing required operations
FR-6	Project Upload	Uploading the project according to the problem statement provided

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Crop production in India is one of the most important sources of income and India is one of the top countries to produce crops. As per this project we will be analyzing some important visualization ,creating a dashboard and by going through these we will get most of the insights of crop production in India.
NFR-2	Security	Data analytics has a positive and significant relationship with a firms ability to manage data security and a positive impact on service supply chain innovation capabilities and service supply chain performance.
NFR-3	Reliability	Farmers are now empowered with insights that can help them predict the market conditions, consumer behaviour towards the finished goods, factors in inflation and other variables that helps them.

NFR-4	Performance	Data analytics helps in executing the existing algorithms faster with large data sets. One of the most important features of data analytics is data processing. Data processing involves raw data collections and organization to derive inferences.
NFR-5	Availability	For products are services, completeness can suggest vital attributes that helps customer compare and choose. With data analytics crop yield predictions can be done earlier even before sowing seeds which results more productivity.
NFR-6	Scalability	Automate data science and data engineering tasks. Train, test and deploy models seamlessly across multiple enterprise applications. Extend common data science capabilities across hybrid, multi-cloud environments.