

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

Date	03 October 2022
Team ID	PNT2022TMID53404
Project Name	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	Collection of Data	Providing Authentic datasets in a CSV format
FR-4	Cleaning of Data	Data Preparation for EDA purposes
FR-5	Data Visualization	Finding trends in a set of data Accurate visualisation of the numbers provided

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interactive UI Designs
NFR-2	Security	By sending an OTP to their email address, users could create accounts that demand authentication. They had the option to make their account private or share their datasets with the app's community.
NFR-3	Reliability	App could be run offline while server maintenance takes place. Server traffic wouldn't be an issue.
NFR-4	Performance	Requires a minimum amount of hardware, so it might be usable on numerous devices and load more quickly.
NFR-5	Availability	Users of the app can access the server at any time because it is always online. The app will also function offline.
NFR-6	Scalability	Scalability reflects the ability of the software to grow or change with the user's demands.