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

Date	11 October 2022
Team ID	PNT2022TMID27824
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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Collection	Data from user through Form
FR-4	Data Processing	Pre-processing the data that is been collected.
FR-5	Yield Prediction	Prediction is done using, K-means Clustering, Apriori Implementation & Navie Bayes Implementation.
FR-6	Results	Suggestions of the crops and the estimated yield are given as result.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	To use a particular product at ease, including elements such as: Navigation, Purpose of features & Quality of performance.
NFR-2	**Security**	To protect sensitive data of the user, include firewalls to prevent unauthorized access. Account creation & Password generation
NFR-3	**Reliability**	Percentage of the probability of failure or rate of failure, Number of critical failures, Time between critical failures.
NFR-4	**Performance**	Efficiency of the system ,database response time
NFR-5	**Availability**	Consistent Availability of the system and its features to the user.
NFR-6	**Scalability**	The highest workloads under which the system will still perform as expected.