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

Date	18 October 2022
Team ID	PNT2022TMID10661
Project Name	Exploratory Analysis Of Rainfall Data In India For Agriculture
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User (both marginal and large scale farmers)	Collect data of their soil type, amount of water availability and quantity of water needed for crops.
FR-2	Check weather	Farmers can check the weather by selecting their area and region.
FR-3	Suggest crop	According to the area and regions, the crops are suggested to the farmers
FR-4	Estimate rainfall	Percent of precipitation and rainfall can be estimated for their regions.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• The farmers and other people can easily use the application and it is user friendly no prior knowledge is required for using it. • They need to register with the application by providing simple details such as their region and type of soil.
NFR-2	**Security**	• All data will be protected against malware attacks.
NFR-3	**Reliability**	• Based on the type of soil, the system will suggest best applicable crops. • Estimates the percent of precipitation with more perfection.
NFR-4	**Performance**	• The expected output will be produces immediately to the user without much delay. • Predictions will be more accurate.
NFR-5	**Availability**	• The application will be available all the time with continuous customer support.
NFR-6	**Scalability**	• The system would be available on web application and any user can login and use it without any disruptions. • It works on android, iOS and also as web application.