

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

Date	14 October 2022
Team ID	PNT2022TMID32283
Project Name	Exploratory Analysis of Rainfall in India for Agriculture
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirements(Epic)	Sub Requirements(Story/Sub-Task)
FR-1	Suggest Crop	The crops would be suggested to the farmers for higher productivity with the predicted rainfall
FR-2	Check Weather	Customer can check the rainfall by giving region and month as inputs

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">• It is user friendly• No prior knowledge is required for using it• The farmers and other people can easily use the application
NFR-2	Security	<ul style="list-style-type: none">• While malware attacks occurs, all data will be protected• Farmers and crop details will be secured• Keep specific log or history data sets• Protect the software from accidental or malicious access
NFR-3	Reliability	<ul style="list-style-type: none">• All data storage for user variables will be committed to the database at the time of entry• The system will provide the prediction of Rainfall without any errors• Data corruption is prevented by applying the possible backup procedures and techniques
NFR-4	Performance	<ul style="list-style-type: none">• At any instance the system should support use of multiple users at a time• The expected analysis of rainfall will be discovered immediately to the farmers without much delay• The database should be able to accommodate maximum records of farmers

NFR-5	Availability	<ul style="list-style-type: none"> • The system will be available 24/7 effectively • That's why user can access easily through this web application
NFR-6	Scalability	<ul style="list-style-type: none"> • The system would be available on web application and any user can Sign In or Sign Up • This Web application will be used without any disruptions