

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

Date	26 October 2022
Team ID	PNT2022TMID29302
Project Name	Project - Exploratory Analysis of RainFall Data in India for Agriculture
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	Trend Analysis	Providing the user with past trends to enable them to analyse.
FR-2	Precaution suggestion	Suggesting the users with precautions to protect their crops better.
FR-3	Prediction	Prediction will be shown on the web page after processing the inputs from the user.
FR-4	Prediction Reports	Accuracy and the graphs will be displayed. .
FR-5	Creation of model	Creating a model specific to the given problem statement.
FR-6	End Result	Getting location and amount of rainfall in an area

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Simple, interactive and user friendly interface of the website for easy navigation.
NFR-2	Security	User preferences and the predictions need to be confidentially maintained.
NFR-3	Reliability	Should be portable and cross-platform independent.
NFR-4	Performance	Traffic should be efficiently managed and the accuracy of the results should be good.
NFR-5	Availability	The application should be compatible on the device that the user chooses to use.
NFR-6	Scalability	The application should be developer friendly and there must be scope for more advancement in the application if the need be.

