

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

Date	03 October 2022
Team ID	PNT2022TMID10841
Project Name	Project – RAINFALL IN INDIA FOR AGRICULTURE
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic) S	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	Reset Password	Reset password through Gmail Reset password through Mobile number
FR-4	Feedback	The user can submit the feedback through a contact form in the website or through Gmail.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The Analyser allows the user to know whether there will be a heavy rainfall or not using the data provided.
NFR-2	Security	By knowing the rain in advance we can secure the humans and animals by turning off the electrical fences.
NFR-3	Reliability	The reliability rating is good due to best performance, less frequency of problem occurrence and cost for repairing is low.
NFR-4	Performance	The model is built in an optimised manner and the model will be more accurate on predictions.
NFR-5	Availability	Weather Data of various cities in India is collected from the Google weather Database.
NFR-6	Scalability	Since we use various machine learning algorithms for predicting the chance of rainfall, we use performance metrics like accuracy, AUC, Precision, Recall, etc , to measure the performance of our model.