

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

Date	03 October 2022
Team ID	PNT2022TMID10910
Project Name	Project - Exploratory Analysis of Rain Fall Data in India for Agriculture. Exploratory Analysis of Rain Fall 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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Forecasting Accuracy	Retrieve the forecasted weather conditions and measure the accuracy
FR-4	Prediction details	User should enter the current location to get the predicted result
FR-5	Forecast	Forecasted flood probability from the rainfall amount is displayed on the webpage.
FR-6	result	The web page will display the condition as a report, visualization plot, graphs and images

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The usability of the website is to make all users will be satisfied with the our requirements of the product. The user should reach the summarized text or result with one button press if possible
NFR-2	Security	The security of the project is to develop the website that prevents SQL injection attack, XSS attack and DOS attack
NFR-3	Reliability	The reliability of the system is to make sure the website does not go offline. The users can be reach and use program at any time, so maintenance should not be a big issue
NFR-4	Performance	The performance of the website is to provide data to all users without unnecessary delay and provide 24*7 availability

NFR-5	Availability	The availability of the website is that the website will be active on the Internet and people will be able to browse to it.
NFR-6	Scalability	<p>The prediction enhances various upgradable features for its scalability and efficiently in various fields.</p> <p>The Scalability of the system is we have limited to our project to Indian cities.</p>