

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

Date	17 October 2022
Team ID	PNT2022TMID28033
Project Name	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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Prediction Details	User must specify the location in order to get the prediction.
FR-4	Forecasting Accuracy	Retrieving the past Fore castings and calculate the accuracy.
FR-5	Forecast	The flood probability of the forecast is displayed on the screen.
Fr-6	Snapshots	The Web-UI will display the necessary information as report and pictures.

**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 the users be satisfied with the overall experience of the end product and get the result within just one press of a button.
NFR-2	Security	The security is developing the website that prevents SQL injection task, DOS attack and XSS attack.
NFR-3	Reliability	The key reliability is to make sure the website doesn't go offline and the prediction is very much accurate.
NFR-4	Performance	The performance of the website to provide data to all users without unnecessary delay and provide 24/7 availability.
NFR-5	Availability	The availability of the website would be that the website will be active and able to browse in the web on demand.

NFR-6	Scalability	The scalability of the system is that the project has been limited to only Indian cities and later have plans to escalate to the continent level.
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