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

Date	16 October 2022
Team ID	PNT2022TMID18408
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 should enter the current location to get the predicted result.
FR-4	Forecasting Accuracy	Retrieve the forecasted weather conditions and measure the accuracy.
FR-5	Forecast	Forecasted flood probability from the rainfall amount is displayed on the webpage.
FR-6	Snapshots	The web page will display the condition as a 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 users will be satisfied with 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 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**	❖ The scalability of the system is we have limited our project to Indian cities ❖ We have plans to scale it to Continents level in coming updates.