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

Date	03 October 2022
Team ID	PNT2022TMID22690
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Prediction	Prediction will be shown on the web page after processing the inputs from the user.
FR-4	Visualization	Visualizing the user-specific data in differentforms
FR-5	User tracking	Maintaining the history of the user's searchoperations
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 friend interface of thewebsite for easy navigation. ✓ The system doesn't expect any technical pre-requisites from the user's side.
NFR-2	**Security**	✓ User preferences and the predictions need to be confidentially maintained. ✓ The confirmation of a valid user is required forauthentication.
NFR-3	**Reliability**	✓ Portable and cross-platform independent ✓ The application should be subjected to an experiment, test, or measuring procedure that yields the same results on repeated trials
NFR-4	**Performance**	✓ Traffic should be efficiently managed and the accuracy of the results should be good. ✓ The page should not take a lot of time to load the contents and display them.
NFR-5	**Availability**	✓ The application should be compatible on the devicethat the user chooses to use. ✓ The system should run 24 hours a day, 7 days a week *[24/7 available]*
NFR-6	**Scalability**	✓ The application should be in the way of adding new functionalities or modules without affecting the existing functionalities ✓ The system should be able to manage numerous users at a time and be less prone to errors