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

Date	14 October 2022
Team ID	PNT2022TMID08012
Project Name	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	User can register and signup the account through Gmail
FR-2	User Confirmation	The system sends an email confirmation when a new user account is created.
FR-3	Authentication	Ensures user's authentication by securing with a password
FR-4	Analysis and Display	The system analyses the rainfall pattern and displays the output to the use
FR-5	Updating	The system will update all the required information to the user.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• In this web application users can easily navigate between tabs. • This application can be accessible by the users easily.
NFR-2	**Security**	• This application allows users to create an account to access the rainfall data. • This application will not grant access until the user creates a strong password. • After certain number of login attempts, this application will lock the account to protect from unauthorized users.
NFR-3	**Reliability**	• This application will maintain accuracy of information. • This provides well defined interfaces and readability features.
NFR-4	**Performance**	• This application will provide less response time in a Chrome desktop browser. • All the rainfall data are updated dynamically and displayed in the interface
NFR-5	**Availability**	• The users can view the data related to rainfall whenever required. • In the case of unplanned system downtime, all features will be available again after some time.
NFR-6	**Scalability**	• This application will predict the rainfall data at a faster time. • This application will be scalable enough to support good number of visiters at the same time while maintaining optimal performance.