

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

Date	03 October 2022
Team ID	PNT2022TMID10712
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 via form or email ID and password creation.
FR-2	User Confirmation	Confirmation via Email or OTP.
FR-3	User Login	Using the registered email ID and password as login credentials.
FR-4	Profile Dashboard	Viewing the profile, changing the password and pages navigation.
FR-4	Searching	Searching for results and information by place and region.
FR-5	Visualization	Visualizing the user-specific data in different forms.
FR-6	Prediction	Giving inputs to get the prediction on rainfall using an ML-based model.
FR-7	User tracking	Maintaining the history of the user's search operations.
FR-8	Feedback & Support	Collecting feedback against the accuracy of the prediction for further improvement and

		feature inclusion in other modules or functionalities.
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Non-functional Requirements:

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

FR No.	Non – Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none"> • The system should administer a quality attribute that assesses how easy <i>user interfaces</i> are to use. • The system doesn't expect any technical pre-requisites from the user's side.
NFR-2	Security	<ul style="list-style-type: none"> • User details and login credentials should be safe and secure. • The confirmation of a valid user is required for authentication.
NFR-3	Reliability	<ul style="list-style-type: none"> • 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 • Easy to use and flexible.

NFR-4	Performance	<ul style="list-style-type: none"> • The accuracy of the result of a measurement, calculation, or specification should be dependent the Datasets. • The page should not take a lot of time to load the contents and display them. • The system should handle the traffic efficiently and service requests while consuming less bandwidth.
NFR-5	Availability	<ul style="list-style-type: none"> • The version of the application should be available even at the time of maintenance and updating. • The system should run 24 hours a day, 7 days a week <i>[24/7 available]</i>.
NFR-6	Scalability	<ul style="list-style-type: none"> • 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.