

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	07 October 2022
Team ID	PNT2022TMID12583
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	Input Area	Provide Input and Get Result
FR-2	Dashboard	Viewing the visualisations, pages navigation
FR-3	Generate Report	Download the report as .pdf, .docx files
FR-4	Model Update	Update the model periodically on the updated dataset and replace with the updated model
FR-5	Prediction	Predicting the future rainfall from the dataset using ML based model
FR-6	Suggestion forum	Suggest measures to be taken and recommended practises based on the rainfall condition
FR - 7	Automatic field fill	Fill in the details of the input fields if region is specified and is unknown to the user
FR - 8	Feedback	Collecting feedback against the accuracy of the prediction for further improvement

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	a quality attribute that assesses how easy user interfaces are to use. the system doesn't expect any technical pre-requisite from the user
NFR-2	Security	user details should be secured the confirmation of valid user is required
NFR-3	Reliability	the extent to which an experiment, test, or measuring procedure yields the same results on repeated trials.
NFR-4	Performance	the degree to which the result of a measurement, calculation, or specification can be depended on to be accurate.

NFR-5	Availability	the version of application should be available even at the time of maintenance and updation The page would not take a lot of time to load the content and display them
NFR-6	Scalability	the application should be in a way of adding new functionalities without affecting the existing functionalities Less prone to errors