

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	09 Nov 2022
Team ID	PNT2022TMID20835
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	Import necessary packages	Importing Packages Like Numpy,Seaborn,etc
FR-2	Download and load dataset	Download the data set , load the appropriate dataset
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	Building machine learning model	Choose the best algorithm,choose for the best optimized result
FR-6	Train the data	Train the model using training data

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 the our requirements of the product. The user should reach the summarized textor result with one button press if possible
NFR-2	Security	Security is given over the model, so the user can use this with full trust. The system should protect the data and information related to the farms
NFR-3	Reliability	The reliability of the system is to make sure the website does not go offline. The users can reach and use program at any time, so maintenance should not be a big issue

NFR-4	Performance	The system should output results of different inputs in a reasonable time
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	Farmers, Vegetable sellers, citizens use this, prediction of data is accurate