

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

Date	03 October 2022
Team ID	PNT2022TMID36050
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	Trend Analysis	Providing the user with past trends to enable them to analyse.
FR-2	Precaution suggestion	Suggesting the users with precautions to protect their crops better.
FR-3	Prediction	Prediction will be shown on the web page after processing the inputs from the user.
FR-4	Prediction Reports	Accuracy and the graphs will be displayed. .
FR-5	Creation of model	Creating a model specific to the given problem statement.
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	<b>Usability</b>	Simple, interactive and user friendly interface of the website for easy navigation.
NFR-2	<b>Security</b>	User preferences and the predictions need to be confidentially maintained.
NFR-3	<b>Reliability</b>	Should be portable and cross-platform independent.
NFR-4	<b>Performance</b>	Traffic should be efficiently managed and the accuracy of the results should be good.
NFR-5	<b>Availability</b>	The application should be compatible on the device that the user chooses to use.
NFR-6	<b>Scalability</b>	The application should be developer friendly and there must be scope for more advancement in the application if the need be.