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

Date	30 October 2022
Team ID	PNT2022TMID28399
Team Members	Keerthi P Deebika G Mahalakshmi R Jesics S
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	Import necessary packages	Importing packages like NumPy, pandas, seaborn, etc
FR-2	Download and load dataset	Download the dataset Load the Appropriate dataset
FR-3	Pre-processing of data	Making data suitable for building a good model
FR-4	Building Machine learning model	Choose the best algorithm. Check for the best optimised result.
FR-5	Train the data	Train the model using training data.
FR-6	Test the model	Test the model for the best evaluation and analysing.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should be easy to use.
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	Good connectivity and a supporting device . The system should be reliable and not crash when using it.

NFR-4	Performance	The system should output results of different inputs in a reasonable time..
NFR-5	Availability	Any person can use this and this is an open-source model.

NFR-6 Scalability Farmers, Vegetable sellers, citizens can use this, prediction of data is accurate.