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

Date	15 October 2022
Team ID	PNT2022TMID52711
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**	Can be used anywhere(remote villages to metropolitan cities), anybody (kids to old age)
NFR-2	**Security**	Security is given over the model, so the user can use this with full trust. However, there are no personal details required to use this.
NFR-3	**Reliability**	Good connectivity and a supporting device can provide good results upto an extent.
NFR-4	**Performance**	This model can give a high accuracy prediction.
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.