PROJECT DESIGN PHASE-II Solution Requirements (Functional & Non-functional)

Date	15-October-2022
Team ID	PNT2022TMID28309
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Registration Process	Registration through Phone Number
FR-2	Confirmation	Confirmation via OTP message
FR-3	Updating Profile	Enter the personal details
FR-4	Home Page	Able to view the Profile Crop details Rainfall prediction
FR-5	Rainfall Prediction	Enter the monthEnter the YearClick on predict
FR-6	ML Model	The user data is sent to the Machine learning model.
FR-7	Preprocessing data	 Data exploration Feature selection Missing values Feature scaling Splitting of train and test data
FR-8	Building ML Model	 Random forest algorithm is applied Train the model using training data The model is evaluated with the test data.
FR-9	Result	Shows the predicted rainfall data.

Non-functional Requirements:

FR	Non-Functional	Description
No.	Requirement	
NFR-1	Usability	It's a user-friendly application which
		enable people to use without any
		technical knowledge.
NFR-2	Security	User data will be protected from
		unauthorised access and the data are
		secured.
NFR-3	Reliability	The application will operate effectively
		without causing any failure and errors, so
		maintance won't be big problem.
NFR-4	Performance	Overall performance of system is efficient
		to predict the rainfall with much speed
		without delay.
NFR-5	Availability	The availability of the application is that it
		will be active and available to all the
		users.
NFR-6	Scalability	The scalability of our system is one that
		can handle rapid changes to workloads
		and user demands.