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

Date	13 October 2022
Team ID	PNT2022TMID38617
Project Name	Natural Disasters Intensity Analysis and
	Classification using Artificial Intelligence
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	User Registration	 Registering via Google Accounts Registering via Product's own user management system
FR-2	User Authentication	Verification through OTPVerification through Email Link
FR-3	Designation of Region	 Ease of selection of necessary areas to be monitored. Versatile and Flexible operations on designated areas
FR-4	Analysis of Required Phenomenon	 Simple and easy analysis on the specific phenomenon to be observed
FR-5	Accumulation of required Data	 Fast and Efficient data gathering capabilities. regarding past event analysis and future prediction
FR-6	Organizing Unstructured data	 Processing of raw and clustered data into clear and refined data which is useful for analysis and prediction tasks
FR-7	Algorithm selection	 The freedom to choose from several classes of algorithm to be used in the process. Customization of algorithm to suit the needs of a specific purpose
FR-8	Prediction and analysis of data	 Accurate results of the analysis provided by the process. Advanced visualization techniques to help visualize the processed data for effective observation
FR-9	Report generation	 Restructuring of obtained results into clear and detailed report for future studies

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It is easy and quick method to predict the disasters.
NFR-2	Security	The secure pattern shares components with monitor and control for logging and control access and for providing audit trails
NFR-3	Reliability	it should be highly reliable
NFR-4	Performance	It deals with the measure of the system's response time.
NFR-5	Availability	t can be available at the any time and we can access during any disasters.
NFR-6	Scalability	Disaster damages are measured involves examining the number of fatalities, of injuries, of people affected.