<u>Project Design Phase-II</u> <u>Solution Requirements (Functional & Non-functional)</u>

Date	11 October 2022
Team ID	PNT2022TMID21298
Project Name	Natural Disaster 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)	
ED 4	Lloor Degistration	Registering via Google Accounts	
FR-1	FR - 1 User Registration	Registering via Product's own user management system	
FD 0	Lieu Authorition	Verification through OTP	
FR-2	FR - 2 User Authentication	Verification 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.

NFR No.	Non-Functional Requirement	Description
NFR - 1	Usability	It is well suited for fields requiring diverse application of processes with efficiency, precision and ease.

NFR - 2	Security	It provides a distinct and secure encryption layer to the system interface for additional security standards.
NFR - 3	Reliability	The product is robust and is capable of execution of processes even in the most difficult and unpredictable environments.
NFR - 4	Performance	The product boasts a high precision and efficient working capacity which helps in escalating its performance to the highest degree.
NFR - 5	Availability	Despite the complexity and degree of difficulty in its operation, the product is equipped with all-round maintenance and readily available technical services which provides the necessary support any individual requires in their duties.
NFR - 6	Scalability	The product also possess enough room for the improvement of its specifications to upgrade its capabilities according to the needs of the user and their organization