

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

Date	11 October 2022
Team ID	PNT2022TMID47240
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)
FR-I	User Registration	Registering via Google Accounts Registering via Product's own user management system
	User Authentication	Verification through OTP Verification through Email Link

FR-3	Designation of Region	<p>Ease of selection of necessary areas to be monitored</p> <p>Versatile and Flexible operations on designated areas</p>
	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
	Algorithm selection	<p>The freedom to choose from several classes of algorithm to be used in the process</p> <p>Customization of algorithm to suit the needs of a specific purpose</p>
FR-8	Prediction and analysis of data	<p>Accurate results of the analysis provided by the process</p> <p>Advanced visualization techniques to help visualize the processed data for effective observation</p>
FR -9	Report generation	Restructuring of obtained results into clear and detailed report for future studies

NFR No.	Non-Functional Requirement	Description
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NFR_1	Usability	It is well suited for fields requiring diverse application of processes with efficiency , precision and ease.
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Non-functional Requirements :

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

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