

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

Date	09 – October - 2022
Team ID	PNT2022TMID20176
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	Request permission	Access permission from web camera.
FR-2	Disaster prediction	Based on the webcam image, the natural disaster is classified
FR-3	Reporting/Documenting	Reports should be generated every 24 hours, mention all use cases.
FR-4	Testing	Component, API, UI testing, etc., Tested before nonfunctional testing
FR-5	Speed	The generation of the results are faster
FR-6	Resolution	The resolution should be high enough to capture the video frames

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system needs to be effective and simple for users to use.
NFR-2	Security	The model is secure due to the cloud deployment.
NFR-3	Reliability	Accurate prediction of the natural disaster and the website is tolerant.
NFR-4	Performance	The model shows the accuracy to be 90 percent after continuous training
NFR-5	Availability	The website is available 24x7
NFR-6	Scalability	The website can run on several web browsers and it can be extended to NDRF