

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

Date	10 November 2022
Team ID	PNT2022TMID46219
Project Name	Project – 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, natural disaster is classified.
FR-3	Accuracy	Since the training and testing images are huge, the accuracy is higher.
FR-4	Speed	The generation of results from the input images are faster.
FR-5	Resolution	The resolution of the integrated web camera should be high enough to capture the video frames.
FR-6	User Interface	Maximizing the interaction in Web Designing Service.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	User friendly and classify the disaster easily.
NFR-2	<b>Security</b>	The model is secure due to the cloud deployment models and also there is no login issue.
NFR-3	<b>Reliability</b>	Accurate prediction of the natural disaster and the website can also be fault tolerant.
NFR-4	<b>Performance</b>	It is shown that the model gives almost 90 percent accuracy after continuous training.
NFR-5	<b>Availability</b>	The website will be made available for 24 hours.
NFR-6	<b>Scalability</b>	The website can run on web browsers like Google chrome, Microsoft edge and also it can be extended to the NDRF and customers.