

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

Date	26 October 2022
Team ID	PNT2022TMID51618
Project Name	Project – Natural Disaster Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	4 Marks

**Functional Requirements:**

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
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