

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

Date	23 October 2022
Team ID	PNT2022TMID45711
Project Name	Project – Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
<b>FR-1</b>	Request Permission	Access permission from web camera.
<b>FR-2</b>	Disaster Prediction	Based on the webcam image, natural disaster is classified.
<b>FR-3</b>	Accuracy	Since the training and testing images are huge, the accuracy is higher.
<b>FR-4</b>	Speed	The generation of results from the input images are faster.
<b>FR-5</b>	Resolution	The resolution of the integrated web camera should be high enough to capture the video frames.
<b>FR-6</b>	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	Usability	User friendly and classify the disaster easily.
NFR-2	Security	The model is secure due to the cloud deployment models and also there is no login issue.
NFR-3	Reliability	Accurate prediction of the natural disaster and the website can also be fault tolerant.
NFR-4	Performance	It is shown that the model gives almost 90 percent accuracy after continuous training.
NFR-5	Availability	The website will be made available for 24 hours.
NFR-6	Scalability	The website can run on web browsers like Google chrome, Microsoft edge and also it can be extended to the NDRF and customers.