

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

<b>Date</b>	25 October 2022
<b>Team ID</b>	PNT2022TMID29116
<b>Project Name</b>	Project – Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
<b>Maximum Marks</b>	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
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<b>NFR-1</b>	Usability	User friendly and classify the disaster easily.
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<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.

<b>NFR-2</b>	Security	The model is secure due to the cloud deployment models and also there is no login issue.
<b>NFR-3</b>	Reliability	Accurate prediction of the natural disaster and the website can also be fault tolerant.
<b>NFR-4</b>	Performance	It is shown that the model gives almost 90 percent accuracy after continuous training.
<b>NFR-5</b>	Availability	The website will be made available for 24 hours.

<b>NFR-6</b>	Scalability	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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