

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

<b>Date</b>	21 <sup>st</sup> October 2022
<b>Team ID</b>	PNT2022TMID10007
<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>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	<b>Request Permission</b>	Obtain authorization from the web camera.
FR-2	<b>Disaster Prediction</b>	Natural disaster is categorized based on the webcam image.
FR-3	<b>Accuracy</b>	The accuracy is higher since the training and testing images is huge.
FR-4	<b>Speed</b>	Results are generated from the input images more efficiently.
FR-5	<b>Resolution</b>	The resolution of the integrated web camera should be high enough to capture the video frames.
FR-6	<b>User Interface</b>	Enhancing interaction in web design services.

**Non-functional Requirements:**

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	Collecting information from reliable sources in addition to gathering research.
NFR-2	<b>Security</b>	When a system freezes or disconnects caused due to, too many users using it at once, it should save all of the user's previous actions up until the abnormal event.
NFR-3	<b>Reliability</b>	Both the website and the accurate disaster prediction can be fault tolerant.
NFR-4	<b>Performance</b>	It is demonstrated that the model provides accuracy of over 90% following continuous training.
NFR-5	<b>Availability</b>	This website will be accessible at any situation of disaster for 24 hours.
NFR-6	<b>Scalability</b>	The website may be extended to the NDRF and users and it can be used with web browsers like Microsoft Edge and Google Chrome.

**Submitted By :**

- Mohan Rajaa (19104103)
- Kagga Ravindra (19104074)

Mughilan (19104106)  
Padala Dhavan babu (19104123)