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

Date	07 November 2022
Team ID	PNT2022TMID18685
Project Name	Project – Natural Disasters Intensity Analysis andClassification 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**	Obtain authorization from the web camera.
FR-2	**Disaster Prediction**	Natural disaster is categorized based on thewebcam image.
FR-3	**Accuracy**	The accuracy is higher since the training and testing images is huge.
FR-4	**Speed**	Results are generated from the input images more efficiently.
FR-5	**Resolution**	The resolution of the integrated web camera should be highenough to capture the video frames.
FR-6	**User Interface**	Enhancing interaction in web design services.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Collecting information from reliable sources inaddition to gathering research.
NFR-2	**Security**	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 abnormalevent.
NFR-3	**Reliability**	Both the website and the accurate disaster predictioncan be fault tolerant.
NFR-4	**Performance**	It is demonstrated that the model providesaccuracy of over 90% following continuous training.
NFR-5	**Availability**	This website will be accessible at any situation ofdisaster for 24 hours.
NFR-6	**Scalability**	The website may be extended to the NDRF and users and it can be used with web browsers like MicrosoftEdge and Google Chrome.

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