

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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 the webcam 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 high enough 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 in addition 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 abnormal event.
NFR-3	Reliability	Both the website and the accurate disaster prediction can be fault tolerant.
NFR-4	Performance	It is demonstrated that the model provides accuracy of over 90% following continuous training.
NFR-5	Availability	This website will be accessible at any situation of disaster 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 Microsoft Edge and Google Chrome.

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