

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 October 2022
Team ID	PNT2022TMID37822
Project Name	Project – Natural Disasters Intensity Analysis and Classification 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	<i>Access permission from web camera.</i>
FR-2	Disaster Prediction	<i>Based on the webcam image, natural disaster is classified.</i>
FR-3	Accuracy	<i>Since the training and testing images are huge, the accuracy is higher.</i>
FR-4	Speed	<i>The generation of results from the input images are faster.</i>
FR-5	Resolution	<i>The resolution of the integrated web camera should be high enough to capture the video frames.</i>
FR-6	User Interface	<i>Maximizing the interaction in Web Designing Service.</i>

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<i>User friendly and classify the disaster easily.</i>
NFR-2	Security	<i>The model is secure due to the cloud deployment models and also there is no login issue.</i>
NFR-3	Reliability	<i>Accurate prediction of the natural disaster and the website can also be fault tolerant.</i>
NFR-4	Performance	<i>It is shown that the model gives almost 90 percent accuracy after continuous training.</i>
NFR-5	Availability	<i>The website will be made available for 24 hours.</i>
NFR-6	Scalability	<i>The website can run on web browsers like Google chrome, Microsoft edge and also it can be extended to the NDRF and customers.</i>

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