

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

Date	12 November 2022
Team ID	PNT2022TMID45045
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.

F No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	Request Permission	Access permission from web camera.
2	Disaster Prediction	Based on the webcam image, natural disaster is classified.
3	Accuracy	Since the training and testing images are huge, the accuracy is higher.
4	Speed	The generation of results from the input images are faster.
5	Resolution	The resolution of the integrated web camera should be high enough to capture the video frames.
6	User Interface	Maximizing the interaction in Web Designing Service.

Non-functional Requirements:

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

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

Team Members:

DHARUNKUMAR P

DEVABALAN C

PRITHIVIRAJ S

SOORAJ S

