

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

Date	16 October 2022
Team ID	PNT2022TMID35901
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Accuracy	Training and testing data fed to the model must be accurate to provide correct results.
FR-4	Speed	The generation of the predicted results must be faster in order to take the necessary actions.
FR-5	Resolution	The resolution of the integrated web camera should be high enough to capture the video frames in order to feed it to the model as inputs.
FR-5	User Interface	Maximizing the uptime of the Web App Service.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Classifying disasters and zones prone to it.
NFR-2	Security	The model is very secure due to the cloud deployment and the additional security boosts it provides.
NFR-3	Reliability	Accurate prediction of the disaster and determining the approximate time at which the disaster may occur.
NFR-4	Performance	Maintaining Balance between Speed and Accuracy delivered by the AI Model.
NFR-5	Availability	24 hrs monitoring of the disaster prone zone to predict the disaster.
NFR-6	Scalability	The model prototype can be extended to private and government forecast organisations which can help in global recognition.

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