

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

Date	19 september 2022
Team ID	PNT2022TMID39809
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 organisation
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Accessibility	Confirmation of accessibility for image data to certain organisation via email provided
FR-4	User Accessibility 2	Accessible to instant weather data.
FR-5	Location Accessibility	Gain access to user location via mobile GPS to show the instant cyclone intensity
FR-6	Internet Availability	Internet is required to access the web page.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Interactive UI is developed which facilitate easy navigation on the web page.
NFR-2	Security	It is highly secured since; the weather IR image data can be accessed by users of certain organization
NFR-3	Reliability	It is highly reliable since intensity of the cyclone is calculated for every 15 mins.
NFR-4	Performance	Since the model is trained with range of data it shows increased performance on every new instance

NFR-5	Availability	It can be made available 24/7.
NFR-6	Scalability	It is highly scalable since fast API is used to make the API which can handle more request per second.