

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

Date	19 september 2022
Team ID	PNT2022TMID48363
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	<b>Usability</b>	Interactive UI is developed which facilitate easy navigation on the web page.
NFR-2	<b>Security</b>	It is highly secured since; the weather IR image data can be accessed by users of certain organization
NFR-3	<b>Reliability</b>	It is highly reliable since intensity of the cyclone is calculated for every 15 mins.
NFR-4	<b>Performance</b>	Since the model is trained with range of data it shows increased performance on every new instance
NFR-5	<b>Availability</b>	It can be made available 24/7.
NFR-6	<b>Scalability</b>	It is highly scalable since fast API is used to make the API which can handle more request per second.