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

Date	29.10.2022
Team ID	PNT2022TMID39135
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	4 Marks

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	With its capacity to help and classify disasters simply, this tool raises the standard for tool quality by illustrating that usability is a different and important viewpoint for understanding user requirements. The user-friendly model approach serves as its foundation.
NFR-2	**Security**	The model is secure due to the cloud deployment models and also there is no login issue.
NFR-3	**Reliability**	The model is trained using deep learning, which improves the tool's effectiveness and dependability for image identification.
NFR-4	**Performance**	The classic computer vision approach to image identification consists of the following steps: picture filtering, segmentation, feature extraction, and rule-based classification. The images from the created dataset are fed into a neural network algorithm. This is the phase of creating a deep learning or machine learning image recognition model. Because an image recognition algorithm is trained, convolutional neural networks can distinguish certain classes.
NFR-5	**Availability**	The website is accessible at any time and from any location.
NFR-6	**Scalability**	Depending on the demands of the future, data may be amended or added. Multiple data sets can be seen simultaneously and can run on web browers.