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

Date	**18 October 2022**
Name	**Lirin s, Lokesh R**
Team ID	PNT2022TMID28260
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 Linked IN
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 organizations which can help in global recognition.