Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	31 October 2022
Team ID	PNT2022TMID46495
Project Name	Project – Natural Disasters Intensity Analysisand 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	Request Permission	*Access permission from web camera.*
FR-2	Disaster Prediction	*Based on the webcam image, natural disaster isclassified.*
FR-3	Accuracy	*Since the training and testing images are huge, theaccuracy is higher.*
FR-4	Speed	*The generation of results from the input imagesare faster.*
FR-5	Resolution	*The resolution of the integrated web camera should be high enough to capture the videoframes.*
FR-6	User Interface	*Maximizing the interaction in Web DesigningService.*

Non-functional Requirements:

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

FR	Non-	Description

No.	Functional Requirement	
NFR-1	**Usability**	*User friendly and classify the disaster easily.*
NFR-2	**Security**	*The model is secure due to the cloud deploymentmodels and also there is no login issue.*
NFR-3	**Reliability**	*Accurate prediction of the natural disaster and thewebsite can also be fault tolerant.*
NFR-4	**Performance**	*It is shown that the model gives almost 90 percentaccuracy after continuous training.*
NFR-5	**Availability**	*The website will be made available for 24 hours.*
NFR-6	**Scalability**	*The website can run on web browsers like Google chrome, Microsoft edge and also it can be extendedto the NDRF and customers.*

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