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

Date	03 October 2022
Team ID	PNT2022TMID04308
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 login	Login through username or Gmail id.
		Sign in through google,linkedin,facebook.
		Login through phone number.
FR-2 L	User Registration	Filling the necessary form.
		Registration through Gmail.
		Registration through facebook.
FR-3	User Conformation	 Verification through Gmail.
		 Verification through sending the otp.
		 Verification through calling the phone by register phone no.
FR-4	FR-4 User forgot password	 Sending the change password page through register gmail.
		 Sending the otp and changing the password.
FR-5	R-5 Authentication	User(normal people).
		Government.
		Insurance companies
FR-6	Authorization levels	 Users,government and some companies(insurance)
FR-7	Uploading the photo	 Upload the photo through selecting the files in the user's device.
		 Directly taking the photo through application itself.
FR-8	Showing occurrence (page)	 Showing with colour code for occurrence of disasters or not ,by green for not and red for occurrence of disaster

FR-9	Notifying(users nearby person)page	 Message chat functions for notify there nearby person through adding phone no and messaging them
FR-10	Notifying (government and insurance companies) page	 Application automatically sends information to government or insurance if there is any occurance of disaster in that area.
FR-11	Log out	Easily clicking the logout button

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	 The request from different users ,each request should perform the task which assigned for particular user.
NFR-2	Security	 assuring all data inside the system or its part will be protected against malware attacks or unauthorized access
NFR-3	Reliability	 Is the software system consistently performs the specified functions without failure
NFR-4	Performance	 The software system accomplishes certain functions under specific conditions such as software's speed of response, throughput, execution time, and storage capacity.
NFR-5	Availability	 The process of each process should take less than 10seconds.
NFR-6	Scalability	 The application should perform at high workload without performance degradation.
NFR-7	Compatibility	 The application should work in all phones and pc devices
NFR-8	Speed	 The result from the trained model should show quickly
NFR-9	Maintainability	 The model should be trained with recent dataset for better accuracy, labelling the disaster and finding the occurence of disaster.