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	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	User forgot password	● Sending the change password page through register gmail. ● Sending the otp and changing the password.
FR-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 cht 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.