

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

Date	11-November- 2022
Team ID	PNT2022TMID45404
Project Name	Emerging Methods for early detection of forest fire
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 LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Alert	alert the forest officials through message
FR-4	User Search	View information on forest fire detection.
FR-5	Mitigation plan	An action plan can be co-ordinated with the authorities to get people to safety. This will be implemented in the later updates.
FR-6	User applications	User is alerted in case if fire is detected

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Monitoring of the potential risk areas and an early detection of fire can significantly shorten the reaction time and also reduce the potential damage as well as the cost of fire fighting.
NFR-2	Security	More secure environment
NFR-3	Reliability	The prediction of the forest fire is 87% accurate
NFR-4	Performance	The performance mostly depends on how much monitoring is done in the forest. It must be processed and detected within a fraction of seconds using the model. We can have no compromise in
NFR-5	Availability	User is alerted in case if fire is detected
NFR-6	Scalability	Early detection and alerting users are done efficiently and in a faster means