

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

Date	03October 2022
Team ID	PNT2022TMID01211
Project Name	Project – Emerging methods of forest fire detection
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	Sensors and detectors	The sensors for Temperature, Humidity, Heat etc., should be installed for detection.
FR-2	cameras	Cameras should be placed to capture the scenario of wild fire.
FR-3	Data collection	The data should be collected and stored in databases for assessments.
FR-4	Data Analyst	The data so collected should be assessed to proceed for further actions.
FR-5	Alarming system	An alarming should be installed such that it will alert the corresponding departments to take action.
FR-6	Prediction systems	Sometimes a prediction system plays a key role in detection of forest fires and can reduce the damage that can be occurred.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usage of sensors and cameras to detect and sense the wild fire.
NFR-2	Security	Sensors and all other requirements are installed for performing in all extreme conditions.
NFR-3	performance	All the sensing systems installed will detect and results are sent to the end users with much accuracy.
NFR-4	Reliability	The technologies used and the sensing and detecting systems will run to long time and designed to be reliable in manner.
NFR-5	Availability	The technological necessities so far used are available in the current modern world and are used by the various developers more oftenly.
NFR-6	Scalability	The single sensing systems once installed will cover the one fourth of a forest as fire eventually spreads eventually.