

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

Date	03October 2022
Team ID	PNT2022TMID27778
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	Getting alert message from sensor
FR-2	User Confirmation	Conform the location by navigation app

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Temperature sensor and smoke sensor are deployed at certain distances so that the whole forest area can be kept inside the view in order to detect the ignition alarming temperature and the range of carbon dioxide gas (CO2).
NFR-2	Security	Inserting image processing to the sensor are help to detect fire
NFR-3	Reliability	It reduces fires and awareness and tracks fired location correctly
NFR-4	Performance	When fires gets detected in sensor it identify the fire and alert sounds within 5 sec
NFR-5	Availability	It will detect the fire quickly and accurately 24/7, security.
NFR-6	Scalability	It can identify the all captured fire at the same time