

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

Date	25 October 2022
Team ID	PNT2022TMID34027
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	Rules	Early detecting, signal transmitting, decision making
FR-4	External interface	The WUI is the zone of unoccupied land and human,

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Detection of forest fire and smoke in wet land areas is done through remote sensing based methods such as high resolution static cameras fixed on the ground .
NFR-2	Security	Forest fire detection should be done in a highly secured manner.
NFR-3	Reliability	Compared with traditional techniques wireless network technology is a very promising green technology for efficiency detect fires . Prediction should be accurate.
NFR-4	Performance	The forest fire detection system uses a transmitting location data alone. It takes very less time. It is more flexible.

NFR-5	Availability	Application gives live information and alerts immediately.
NFR-6	Scalability	Application of sensors and solar power to detect and inform can help to reduce fires.