

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

Date	23 October 2022
Team ID	PNT2022TMID26287
Project Name	Emerging methods for early detection of forest fires
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	Reporting	Gives Alarm whenever fire is detected and sends message to registered mail.
FR-4	Changing Volume	Alarm sound varies with respect to intensity of forest fire detected.
FR-5	Variable Coverage area	Coverage area can be varied by user.
FR-6	Stores data	Stores information about frequency of occurrence of forest fires and this data can be accessed by registered user.

**Non-functional Requirements:** Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	System would be user friendly and there is no need for user to know technical things to understand system.
NFR-2	<b>Security</b>	Data stored in system can be accessed only by Administrator.
NFR-3	<b>Reliability</b>	System automatically returns to normal state once alarm gets turn off which reduces hardware usage and failures.
NFR-4	<b>Performance</b>	With high Accuracy and low Response time Performance is improved.
NFR-5	<b>Availability</b>	The Proctoring will be available for 24/7.
NFR-6	<b>Scalability</b>	The range of each camera can be scalable by making sure that ranges of two different cameras won't be overlap to detect location.