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

Date	03 October 2022
Team ID	PNT2022TMID35796
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	**Usability**	System would be user friendly and there is no need for user to know technical things to understand system.
NFR-2	**Security**	Data stored in system can be accessed only by Administrator.
NFR-3	**Reliability**	System automatically returns to normal state once alarm gets turn off which reduces hardware usage and failures.
NFR-4	**Performance**	With high Accuracy and low Response time Performance is improved.
NFR-5	**Availability**	The Proctoring will be available for 24/7.
NFR-6	**Scalability**	The range of each camera can be scalable by making sure that ranges of two different cameras won't be overlap to detect location.