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

Date	25 October 2022
Team ID	PNT2022TMID33969
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	Two digital camera	Capture the images.
FR-2	microcontroller	Execute autonomous navigation
FR-3	GPS	Determine the position of the vehicle
FR-4	Flight controller	Monitor and detect the movement of aircraft

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It provides a continuous and remote watch on a flame in forests.
NFR-2	**Security**	It can cover a large area and identify hot spots using the thermal camera. So, It is highly secure to use.
NFR-3	**Reliability**	The proposed method has simple operations, high operating efficiency.
NFR-4	**Performance**	The performance of the proposed system is better, so it can be considered suitable for forest fire monitoring.
NFR-5	**Availability**	It is rapidly growing and will continue to expand in the future.
NFR-6	**Scalability**	It is a highly dynamic system that can readily adapt and grow in strength and utility.