Project Design Phase-II
Solution Requirements (Functional & Nonfunctional)

Date	4 November 2022
Team ID	PNT2022TMID29323
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	Forest monitoring	Continuous monitoring through camera
FR-2	Image Processing	Real time data processing and generating and to manipulate the data on the cloud side.
FR-3	Create and test model	Creating the model , training and testing it with the data's preprocessed.
FR-4	Detect fire	Fire is detected through CNN model
FR-5	Alert	The system shall send a notification to the admin when it recognizes a fire.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The use in real time, within tactical framework
NFR-2	**Security**	System has cloud backup and thus secured.
NFR-3	**Reliability**	In any incident the system will inform before any fire accident.
NFR-4	**Performance**	Putting in more training data into the system will improve the accuracy of its ability to detect a fire
NFR-5	**Availability**	Build model is available all the time
NFR-6	**Scalability**	Putting in more training data into the system will not affect the system.