Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	17 October 2022
Team ID	PNT2022TMID24892
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

Sn. No	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1.	Video surveillance start	Start surveillance through remote control
2.	Forest monitoring	Continuous monitoring through camera
3.	Detect fire	Fire is detected through CNN model
4.	Alert	Alert the forest officials through message

Non-functional Requirements:

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

Sn. No.	Non-Functional Requirement	Description
1.	Usability	Monitoring possible danger areas and early fire detection can greatly reduce the response time, as well as the potential damage and firefighting expenses.
2.	Security	More secure environment.
3.	Reliability	Model is safe to install.
4.	Performance	Model will achieve high accuracy.
5.	Availability	Build model is available all the time.

6.	Scalability	A fire must be discovered by a cargo compartment detection system within one minute and must be so tiny by that point that it poses little risk to the aeroplane. The business is also plagued with nuisance alarms, with up to 90% of fire alarms being false alerts.