

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

Date	16 October 2022
Team ID	PNT2022TMID44251
Project Name	Project – Emerging Methods for Early Detection of Forest fire.
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	Video surveillance start	Start surveillance through remote control
FR-2	Forest monitoring	Continuous monitoring through camera
FR-3	Detect fire	Fire is detected through CNN model
FR-4	Alert	Alert the forest officials through message
FR-5	Heat source	Heat sources help spark the wildfire
FR-6	Fuel load	bring fuel to temperatures hot enough to ignite

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	user adds extra protocols and features to further enhance
NFR-2	Security	More secure environment
NFR-3	Reliability	More secure environment
NFR-4	Performance	Model will achieve high accuracy
NFR-5	Availability	Build model is available all the time
NFR-6	Scalability	self-organized criticality behaviour on both spatial and temporal scales