

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No:	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	Video surveillance	Setting up a 24/7 surveillance around the forest areas for monitoring
2	Data collection	Collection of previous forest fires images to comparison and future purposes use cameras for this
3	Detect fire	Fire is detected through CNN and sensors(for analyzing fire smoke)
4	Alerting officers	If fire is detected alert all the nearby authorities and All the nearby areas for evacuation and further purposes

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
1	Usability	Alerts according to the user location ,Early detection is helpful to avoid disaster
2	Security	24-hours security is available
3	Reliability	The prediction of the forest fire is pretty accurate with reliability
4	Performance	Early detection happens, so the performance is good, which is what we want.
5	Availability	The application gives alerts and live feeds 24/7
6	Scalability	The system provides the early detection as much as possible so scalability is done.