

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

Date	03 October 2022
Team ID	PNT2022TMID42321
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	User Registration	Registration through Gmail Registration through Form
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Image recognition	The Input image data from the satellites should be able to analyze and recognize the image contains fire or not.
FR-4	Forest Monitoring	The forests should be monitored all the time.
FR-5	Alert	The alert message should be sent to the fire department and customers.
FR-6	Detection	System will detect if there is fire or not using the data sets provided.
FR-7	Operating system	The system should be able to run on either Window or Linux operating systems.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Very effective model and Easy to use , user friendly model.
NFR-2	Security	The environment is Secure.
NFR-3	Reliability	Model is safe to install and use.
NFR-4	Performance	Model will achieve high accuracy and provide spontaneous response.
NFR-5	Availability	Model is available for all the time and can access all the time.
NFR-6	Scalability	Model can easily adapt to every environment and also can handle large amount of data.