

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

Date	29 October 2022
Team ID	PNT2022TMID40383
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	<ul style="list-style-type: none">➤ Registration through Form➤ Registration through Gmail
FR-2	User Confirmation	<ul style="list-style-type: none">➤ Confirmation via Email➤ Confirmation via OTP
FR-3	Authentication	<ul style="list-style-type: none">➤ Through OTPs or OAuth
FR-4	User Monitoring	<ul style="list-style-type: none">➤ Prediction using Artificial Intelligence➤ Live status of patches of Forests
FR-5	GPS Tacking	<ul style="list-style-type: none">➤ Track the location
FR-6	Administrative functions	<ul style="list-style-type: none">➤ Preserving, Restoring, Maintaining and Protecting data of the species

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Our solution is intended for Forest officers, Biologist, Naturalist, Ecologist with the goal of protect forests.
NFR-2	Security	Good encryption, authentication and authorization.
NFR-3	Reliability	Framework for creating digital devices that supports the flora and fauna in the forests.
NFR-4	Performance	Transfer learning approach to improve accuracy and performance of the application.
NFR-5	Availability	Application will also work on offline to notify user through messages.
NFR-6	Scalability	With the help of cloud services, a greater number of users can access the application