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

Date	10 October 2022
Team ID	PNT2022TMID30303
Project Name	Project – 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 Form ➢ Registration through Gmail
FR-2	User Confirmation	➢ Confirmation via Email ➢ Confirmation via OTP
FR-3	Authentication	➢ Through OTPs or OAuth
FR-4	User Monitoring	➢ Prediction using Artificial Intelligence ➢ Live status of patches of Forests
FR-5	GPS Tacking	➢ Track the location
FR-6	Administrative functions	➢ 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