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

Date	05 November 2022
Team ID	PNT2022TMID20714
Project Name	Project – Early detection of forest fire using deep learning
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 Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Image recognition	The system shall be able to take real inputs of satellites images and determine whether image contains fire or not.
FR-4	Forest Monitoring	Forest are monitored 24/7 through
FR-5	Alert	The system will send notification to the user when fire is detected
FR-6	Detection	The system shall take training sets of fire and checks for fire or no fire or smoke
FR-7	Operating system	The system can run as a service on Windows or Linux operating system.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Model is user friendly to use and very effective.
NFR-2	**Security**	More secure environment
NFR-3	**Reliability**	Model is safe to install
NFR-4	**Performance**	Model will achieve high accuracy
NFR-5	**Availability**	Build model is available in all the time
NFR-6	**Scalability**	Model can handle large amount of data and can easily adapt to every environment.
NFR-7	**Testability**	Putting in more training data into the model can improve the accuracy level of the system.