

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

Date	22 October 2022
Team ID	PNT2022TMID41278
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	<ul style="list-style-type: none"> Registration through Website Registration through Calling via mobile phones
FR-2	User Confirmation	<ul style="list-style-type: none"> Confirmation via Website acknowledgement or Mobile Phone Calling Installation (Real Time Installation - Our team will come to the spot and installation will done) Provide Unique Key to Software
FR-3	Interfaces	<ul style="list-style-type: none"> Just open the Application Software through a unique key and you can watch where forest fire detection is occurred. Customer support (We mentioned below)
FR-4	Process	<pre> graph LR A[Video Feed Frame Camera] --> B[Frames from Video] B --> C[Deep Learning Model] C -- "No Fire Detected" --> A C -- "Forest Fire Detected" --> D[Alert] </pre>
FR-5	Reporting	<p>REPORTING FROM PRODUCT AND DEVELOPER END :</p> <ul style="list-style-type: none"> Process reporting - via application software and alarm to the user

		<p>REPORTING FROM USER END :</p> <ul style="list-style-type: none"> • Service, Maintenance, Feedback and other Queries - Users just contact us through Application Software / Mobile / Website
FR-6	Business rules	<ul style="list-style-type: none"> • Before AGREE, The user must read the full TERMS AND CONDITIONS which are provided below • The main purpose of our product is EARLY FOREST FIRE DETECTION. So users don't use it ILLEGALLY AND OTHER MALICIOUS ACTIVITIES. Some rules and instructions will be provided during installation • We need some basic access from the user-end like CAMERA, GPS LOCATION, NETWORK, STORAGE, AND OTHER BASIC ACCESS TO PROVIDING THE HIGH QUALITY AND SECURITY LEVEL FOR SYSTEM PROCESS AND BEST USER EXPERIENCES • Without proper maintenance of the product from the user-end, it is not considerable the product has manufacturing defects and failures. WARRANTY AND GUARANTEE NOT ABLE TO CLAIM. WE ARE NOT RESPONSIBLE FOR THAT MISTAKES. But we will provide support to the user-end • Whether the given product has defected then the user immediately contacts support. We will reach you soon • After the expiry of Warranty and guarantee THE CHARGES MAY APPLY FOR SERVICE AND MAINTENANCE FROM THE USER • Privacy is not only for the product developer side, it's applicable both user and service side also. SO MAKE SURE THE EVERY USER HAS THE RESPONSIBLE TO FOLLOWS OUR BUSINESS RULE • IF THE USER DIDN'T FOLLOWS THE BUSINESS RULES, TERMS AND CONDITIONS. THEN WE WILL TERMINATE OUR SERVICE AND TAKE ACTION UNDER THE LAWS OF GOVERNMENT

FR-7	Laws of regulations	<p>“ WE ARE COMING UNDER THE GOVERNMENT LAWS AND REGULATIONS OF THE VARIOUS COUNTRIES GOVERNMENTS. WE NEVER COLLECT THE PERSONAL DATA. WE ONLY COLLECTS THE FUNDAMENTAL REQUIRED DATA TO PROCESS OUR SYSTEM EFFECTIVELY ”.</p> <p>❖ EVERYONE SHOULD OBEY THE GOVERNMENT LAWS OF REGULATIONS.</p>
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Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User friendly, Quality and Quantity Of Service
NFR-2	Security	Very high secured data and confidential
NFR-3	Reliability	Our product is reliable in nature
NFR-4	Performance	Real time high performance
NFR-5	Availability	Lifetime
NFR-6	Scalability	High scalable and easy to maintain