

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

Team ID	PNT2022TMID31966
Project Name	Emerging methods for early detection of forest fire prediction
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	Image capture	Capture image of forest Check the forest if fired
FR-3	Image Processing	Upload the forest image Start detection
FR-4	Forest fire prediction	Identify the parameters to be considered for the identification of forest fire
FR-5	Fire description	Show the recommended rescue measures for the forest fire
FR-6	Providing dataset	Training dataset Testing dataset
FR-7	Adding dataset	Forest fire dataset
FR-8	Updated Native Language options	Language can be changed according to the user wish

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Forest fire dataset can be used for detection of all kind of forest's dataset can be reusable datasets can be prepared according to the leaf
NFR-2	<b>Security</b>	User information and forest data are secured The algorithm used are more secure
NFR-3	<b>Reliability</b>	The forest fire is more The dataset and image capturing performs consistently well
NFR-4	<b>Performance</b>	Forest fire defines once the fire is detected Performs well accordingly to the quality of forest fire
NFR-5	<b>Availability</b>	Forest fire will be used again for detection

NFR-6	<b>Scalability</b>	Increase in growth of predicting the results and defining the forest
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