

Solution Requirements (Functional & Non-functional)

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| Date | 3 NOV 2022 |
| Team ID | PNT2022TMID50535 |
| 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

| Sn. No | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---------------|--------------------------------------|---|
| 1. | User Registration | Registration through G-mail Registration through Company Profile |
| 2. | User Confirmation | Get confirmation through OTP Get confirmation through mail |
| 3. | User Login | User can login through credentials |
| 4. | User Feed | The user gets the live update of the forest cover if there is any detection of fire. |
| 5. | User Profile | The forest management has it's workers profile created to give them live track of the forest. |
| 6. | User Alert | If any fire is detected the user receives the quick response through alert sound or messages. |
| 7. | User Application | Along with the forest management team the citizens residing nearby forest can also download the application for alerts. |

Non-functional Requirements:

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

| Sn. No. | Non-Functional Requirement | Description |
|---------|----------------------------|--|
| 1. | Usability | Monitoring possible danger areas and early fire detection can greatly reduce the response time, as well as the potential damage and firefighting expenses. |
| 2. | Security | More secure environment. |
| 3. | Reliability | Model is safe to install. |
| 4. | Performance | Model will achieve high accuracy. |
| 5. | Availability | Build model is available all the time. |
| 6. | Scalability | The instant alerts received by the forest team can ensure to detect the fire at a earlier stage. |