Solution Requirements (Functional & Non-functional)

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| **Date** | 19 October 2022 |
| **Team ID** | PNT2022TMID31081 |
| **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

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| **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.

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| **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. |