**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID19246 |
| Project Name | Emerging methods for early detection of forest fire predection |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **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 descrption | 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.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | 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 | **Security** | User information and forest data are secured  The algorithm used are more secure |
| NFR-3 | **Reliability** | The fore fire is more  The dataset and image captureing performs consistenly well |
| NFR-4 | **Performance** | Forest fire defines once the fire is detected  Performs well accordingly to the quality of forest fire |
| NFR-5 | **Availability** | Forest fire will used again for detection |
| NFR-6 | **Scalability** | Increase in growth of predicting the results and defining the forest |