**Project Design Phase-II**

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

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| Date | 23 October 2022 |
| Team ID | PNT2022TMID45711 |
| Project Name | Project – Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence |
| 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** | Request Permission | Access permission from web camera. |
| **FR-2** | Disaster Prediction | Based on the webcam image, natural disaster is classified. |
| **FR-3** | Accuracy | Since the training and testing images are huge, the accuracy is higher. |
| **FR-4** | Speed | The generation of results from the input images are faster. |
| **FR-5** | Resolution | The resolution of the integrated web camera should be high enough tocapture the video  frames. |
| **FR-6** | User Interface | Maximizing the interaction in Web Designing Service. |

**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 | User friendly and classify the disaster easily. |

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| **NFR-2** | Security | The model is secure due to the cloud deployment models and also there is no login issue. |
| **NFR-3** | Reliability | Accurate prediction of the natural disaster and the website can also be fault tolerant. |
| **NFR-4** | Performance | It is shown that the model gives almost 90 percent accuracy after continuous training. |
| **NFR-5** | Availability | The website will be made available for 24 hours. |
| **NFR-6** | Scalability | The website can run on web browsers like Google chrome, Microsoft edge and also it can be extended to the NDRF and customers. |

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