Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 10 November 2022 |
| Team ID | PNT2022TMID46219 |
| Project Name | Project – Natural Disasters 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. |
| 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. |