

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 27 October 2022 |
| Team ID | PNT2022TMID29409 |
| 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.

| FR No. | Non-Functional Requirement | Description |
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| NFR-1 | Usability | User friendly and classify the disaster easily. |
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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 to capture 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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| 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. |

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| 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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