**Project Design Phase-II**

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

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| Date | 01 November 2022 |
| Team ID | PNT2022TMID18733 |
| Project Name | Natural Disasters Intensity Analysis and  Classification using Artificial Intelligence |
| Maximum Marks | 4 Marks |

**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** | With its capacity to help and classify disasters simply, this tool raises the standard for tool quality by illustrating that usability is a different and important viewpoint for understanding user requirements.  The user-friendly model approach serves as its foundation. |
| NFR-2 | **Security** | The model is secure due to the cloud  deployment models and also there is no login issue. |
| NFR-3 | **Reliability** | The model is trained using deep learning,  which improves the tool's effectiveness and dependability for image identification. |
| NFR-4 | **Performance** | The classic computer vision approach to image identification consists of the following steps: picture filtering, segmentation, feature extraction, and rule-based classification. The images from the created dataset are fed into a neural network algorithm. This is the phase of creating a deep learning or machine learning image recognition model.  Because an image recognition algorithm  is trained, convolutional neural networks can distinguish certain classes. |
| NFR-5 | **Availability** | The website is accessible at any time and from any location. |
| NFR-6 | **Scalability** | Depending on the demands of the future, data may be amended or added.  Multiple data sets can be seen simultaneously and can run on web  browers. |