# Project Design Phase-II

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

|  |  |
| --- | --- |
| **Date** | **17October 2022** |
| **Name** | **Keerthi Prakash M** |
| **Team ID** | **IBM- Project -46383-1660746355** |
| **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.** | **Functional Requirement**  **(Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | **User Registration** | Registration through Form  Registration through Gmail Registration through Linked IN |
| FR-2 | **User Confirmation** | Confirmation via Email  Confirmation via OTP |
| FR-3 | **Accuracy** | Training and testing data fed to the model must be accurate to provide correct results. |
| FR-4 | **Speed** | The generation of the predicted results must be faster in order to take the  necessary actions. |
| FR-5 | **Resolution** | The resolution of the integrated web camera should be high enough to capture the video frames in order to feed it to the model as inputs. |
| FR-5 | **User Interface** | Maximizing the uptime of the Web App Service. |

# Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Classifying disasters and zones prone to it. |
| NFR-2 | **Security** | The model is very secure due to the cloud deployment and the additional security boosts it provides. |
| NFR-3 | **Reliability** | Accurate prediction of the disaster and determining the approximate  time at which the disaster may occur. |
| NFR-4 | **Performance** | Maintaining Balance between Speed and Accuracy delivered by the AI Model. |
| NFR-5 | **Availability** | 24 hrs monitoring of the disaster prone zone to predict the disaster. |
| NFR-6 | **Scalability** | The model prototype can be extended to private and government forecast organizations which can help in global recognition. |