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

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|---|---|
| Date | 03October 2022 |
| Team ID | PNT2022TMID34201 |
| 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.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | Authentication | Provides a right or agreed results or effects based on the data set |
| FR-2 | Authorization levels | The AI develops better and better algorithms to determine which factors indicates an attack |
| FR-3 | External interface | User interface that involves some aspect of artificial intelligence |
| FR-4 | Business rules | Decision making |
| FR-5 | Reporting | AI methods require large data sets to learn relationships between variables |
| FR-6 | Compliance to laws or regulations | The relationships between the feature space and the response variable are the same in the future situations as in the training set. |

## Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | Usability | Provide some of the basic input data for risk management of natural disasters for that sensors are used |
| NFR-2 | Security | The foundational mechanism is something new that how a human being |

| | | senses an upcoming disaster |
|---|---|---|
| NFR-3 | **Reliability** | The training data must also be representative of the future situation for which predictions are to be made |
| NFR-4 | **Performance** | Forecasting the extreme events and the development of hazard maps for the detection of events in real time |
| NFR-5 | **Availability** | While AI methods are already important for natural hazards risk analysis in both practice and research, more research is needed to improve AI methods and how they are used in risk analysis |
| NFR-6 | **Scalability** | The system should be able to predict the model accurately  if large amount of datasets are added |