**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID28517 |
| Project Name | Natural Disaster Intensity Analysis And  Classification Using Artificial Intelligence |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S. No** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Natural Disaster one of most inevitable disasters, it can be caused by naturally occurring events such as earthquakes, cyclones, floods, and wildfires.  A natural disaster can cause loss of life or damage property like buildings will collapse due to seismological effects, and typically  leaves some economic damage in its wake. diseases/viruses spread and sometimes natural disasters can devastate nations.  Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems, but detection of natural disasters still faces issues due to the complex and imbalanced structures of images. |
|  | Idea / Solution description | By predicting to occurrence of natural disaster, we can save thousands of lives and take appropriate measures to  reduce property damage |
|  | Novelty / Uniqueness | The computer model is updated every 12 hours with the latest satellite data and observations, thereby allowing scientists to issue forecasts and warnings |
|  | Social Impact / Customer Satisfaction | The most vulnerable are citizens and children. It can save lives of people can minimize the loss of infrastructure  finance. |
|  | Business Model (Revenue Model) | The model is tested on 4428 natural images and performance is calculated and expressed as different statistical values. |
|  | Scalability of the Solution | A fast scalable implicit solver for nonlinear  time-evolution earthquakes city problem on low- ordered unstructured finite elements with artificial intelligence. |