.NET LAB

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**Title:** Disaster Control

**Introduction of your application:** Disaster Control application is an initiative to provide the end user with all the information available about a natural calamity that has occurred or is predicted to occur in the foreseeable future. When the data such as the calamity causes, causalities, scale of impact, relief funded, land analysis, etc are available for past calamities, one can use this application for studying the affected area, anticipating a trend, providing monetary and emotional support to those in need and also for research purposes.

**Motivation:** As the current world progresses, one must certainly be aware of the state of natural resources around them. Lately, we have observed polluted airs, toxic rivers, landslides, deforestation, climate change, global warming, tsunami, earthquakes, forest fires, floods, etc to such an extent that it is foolish to believe that the earth can sustain life without bringing a significant alteration in our lifestyle and surroundings. Not only are we supposed to preserve, but we should also anticipate the upcoming disasters due to our negligence and prepare accordingly to combat them. Furthermore, the economic disparity has led to such a situation where the needy have suffered more than those who are well off. It is our moral responsibility to take our actions into account and to learn and observe a pattern from our mistakes in order to transform the world into a more sustainable one. Thus, this application will provide all the necessary data of the previous calamities while predicting the possible ones in future in order to be prepared for the results of our wrongdoings till we can discover some sustainable methods that can adapted by the masses.

**List of windows and components (Modules & sub-modules):** The applications will have a homepage with the information about the most recent and significant natural calamity from all over the world. It will also consist of a donation for this specific calamity which will lead to a new window consisting of debit/credit etc options. It will also have a list of services available nearby and some therapy channels. A chatbot may also be enabled if required to do the same. Other menus, windows and components are as follows:

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| **Sr. No.** | **Menu** | **Window** | **Components of the window** |
| 1 | Previous calamities | Calamity type, Region, timespan | Data for monetary help provided, dead, injured, resources provided, number of rescue missionaries, mental help assistants, etc |
| 2 | Predicted Calamities | Calamity type, Region, expected date and time, duration, causalities | Graph of pervious data, relocation options, nearby NGOs, do’s and don’ts recommended course of action |
| 3 | Donation for specific calamities | Calamity type, region, preferred organization, | Monetary help: UPI/debit/credit, etc  Goods donated: new/used, message to be sent |
| 4 | Therapy, psychologists and more | Calamity type, region, date | Online/Offline help, suicide prevention helplines, nearby support group, volunteers willing to assist |
| 5 | Nearby embassies, available transportation facilities | Calamity type, region, Country of the affected | Passport verification, helpful contact details, functioning routes and NGOs. |
| 6 | About us | Motivation, history, founders | Date, contact details, feedback and suggestions |
| 7 | Career | Contact details: email, number, Instagram, Facebook, etc | Applicants’ details and past social work proof |
| 8 | Emergency Contacts | Calamity type, region |  |

**Database Description:** The database will contain all the required tables with information obtained from the windows and components along with displaying all the necessary details of the volunteers, assistants, personals, founders, calamities, etc. The database will majorly consist of the previous calamities information, upcoming predicted calamities, information regarding the ones affected, estimated loss of personal belongings, etc.

**Targeted Users:** Climate Change activists, industrialists willing to buy the given area for redevelopment projects, government, newspaper editors, news agencies, research scholars, affected population (for available resources details and therapy options) and people willing to donate and/or help.