Disaster management system

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**Project Overview**

The human race has always faced challenges when hit by a natural or man-made disaster. These disasters can range from flood, forest-fires, cyclones, tornados to air crash, nuclear disaster, war and attacks. What is needed in such times of crises is catering to those in need at least for the basic necessities like food, water, police force, volunteers and most important health care as such things are out of stock!

As stated in many scholarly articles disaster management or crises management is not to deflect or take out the danger but to adapt to disasters and diminish the impact of calamities. Inability to do so can cause human mortality, lost income and even harm to resources.

The problem that this project is trying to solve is providing the basic necessities as a combined effort to come out of any possible disasters that human can face. The project will take the whole country in picture and handle disasters in each state separately.

The system administrator will create state and state administrators to handle crises situation in their state. Each state has a directory of various organization like food bank, police department, hospitals, NGO’s, Fire departments that cater to the crises situation in their area through the area pin code. When any person in an area reports a disaster and requests for the supplies the requests are directed to the particular organization to handle requests in their scope. While the NGO’s are notified of all the requests.

**Main Entities**

* User Account: The functionalities will change depending on the role.
* Help Request Queue: This will contain all the requests in all domains.
* Food Request Queue: This will contain all requests specific to the food banks.
* Fire Department Request Queue: This will contain all requests specific to the fire department.
* Police Force Request Queue: This will contain all requests specific to the police department.
* Hospital Request Queue: This will contain all requests specific to the Health department.
* State: This will contain state name and its disaster management bureau. There will also be a user account in state to manage that state.
* State disaster management/Disaster management bureau: This will hold the directory of all the food banks, hospitals, police departments, fire departments, NGO’s in their area.
* Food bank: It will have the number of food packets, water bottles available, list of delivery man and a user account to manage that food bank.
* Police Department: It will have a list of policeman and a user account to manage that police department.
* Hospital: It will have a list of ambulances/ambulance operators and mobile physicians available at any given time and a user account to manage that hospital.
* NGO: It will have a list of volunteers available at any given time and a user account to manage that NGO.
* Fire Department: It will have a list of fire fighter and a user account to manage that fire department.

**Ecosystem Diagram**

