Requirements Synopsis

Disaster relief aid should use all available technologies to expand its capabilities. Currently when requesting aid over the internet we depend on systems built for advertisement or entertainment. Such systems are intended for other purposes and thus stifle the possibility of reaching as many willing help providers as possible. Thus, a new system must be built where luck or popularity are no longer factors in deciding whether your plead for help reached everyone it could. Our system proposes a fully interconnected social network where you can request for supplies via a ticketing system that can be seen by all other users. Individuals can login as Help Requesters to post their needs for supplies, psychological or medical assistance. Meanwhile, the volunteers can login as Help providers into the application to verify what the people need, if there is someone or a group that is going to send the aid, or if the individual already received the order. This would allow multiple help providers to work together to satisfy the needs of as many help requesters as possible.

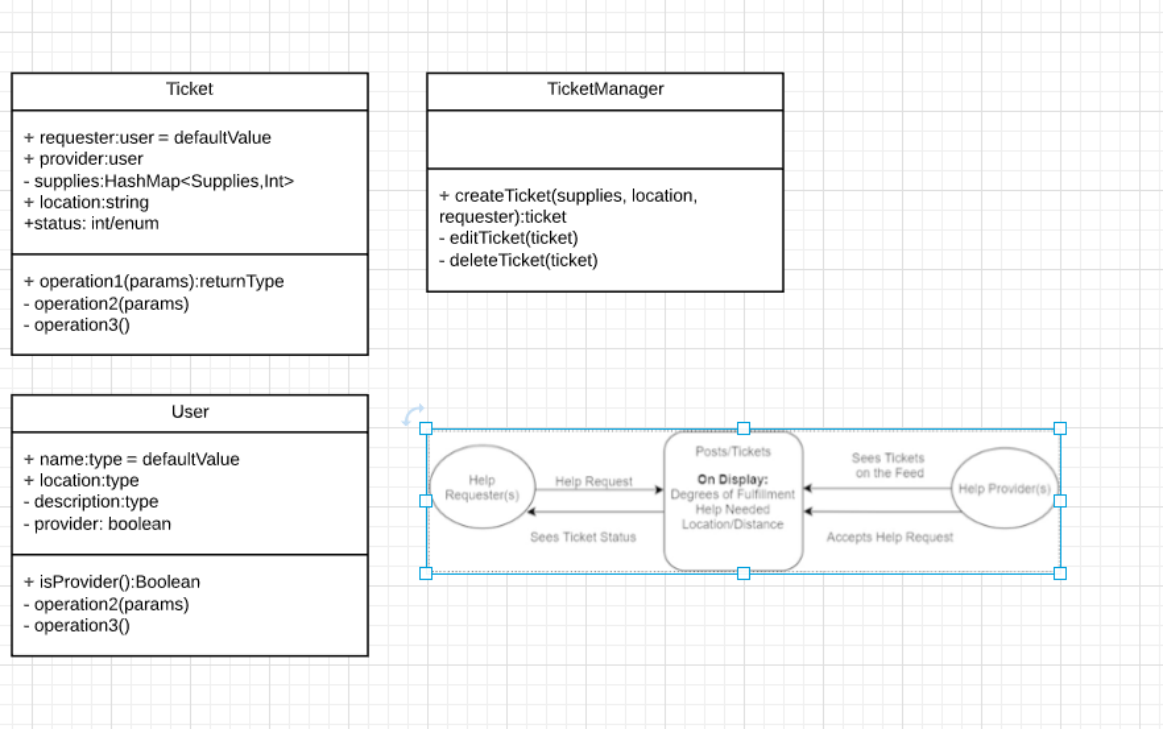
In order to build such a system, we must implement the following core pillars:

1. Ticket System
    a. A requester can request a ticket while a provider can accept the ticket.
    b. The ticket should have a basic description of the order along with a checklist, the requester and the general area.
    c. A provider can select a coordinate help button to chat with the help requester that asked for the ticket. After coordination, the ticket creator (requester) must confirm his ticket will already be attended. The ticket should be logged on each user.
    d. Color coded to determine status
2. Account/User logic
    a. User superclass that would hold a Boolean to establish whether the app is being used to request help or to provide help.
    b. Limited user info should be required to make an account such as: name, picture, location, password and optional contact information such as about me or description sections.
    c. Email/password login
    d. Should hold a log to track previously submitted requests or previously completed help provided.

3. Application feed for a provider.
    a. When a user wants to use the app as a help provider, the home page / application feed will feature current open tickets based on proximity.
    b. Also, a tool must be provided to sort the help requests by supplies or quantity.
4. Application feed for a requester.
    a. Since requesters are encumbered with their needs being fulfilled; the requester feed should be populated by different statistics of the most popular supplies provided and the average time of fulfillment.

UML Class Diagram

Preliminary design left amid to work on the html/Css front end prototype to later guide.



Product Backlog (User Stories)

1. as a requester, I want to request the supplies that I need.
2. as a requester, I want to be able to see what the most popular supplies are.
3. as a requester, I want the system to tell me the amount of nearby registered providers.
4. as a requester, I want the ticket system to tell me the status of my request.
5. as a requester, I want the system to allow me to switch to a provider status if I choose to.
6. as the provider, I want to view a list of all users in need based on proximity.
7. as the provider, I should be able to sort the requests by various categories such as quantity, supplies, places or severity.
8. as the provider, I would like to view all the provisions I have given out.
9. as a user, I want to be able to communicate with the provider/requester that choose to fulfill the ticket.
10. as the provider, I would like to efficiently and effectively provide help across an affected area so a list of the most helped areas should allow me to shift my focus to other areas and avoid congestion.

Preliminary UI