YouSupply

Crowdsourced Logistics network for Disasters

KAPSS
KPR008

The Problem

- Inefficient resource distribution is a significant barrier to recovery after a disaster.
- Solving the issue isn't solely about increasing funding or resources; it's about optimizing their distribution.
- Inefficient distribution affects both centralized organizations like NGOs and decentralized systems.
- Making resource providers and those in need aware of each other's situations and facilitating communication can greatly enhance recovery efforts.

The Solution

Main Purpose : Facilitate interaction between resource providers and consumers.

Factors Considered : Location and type of resource.

Functionality : Acts as a mediator, allowing users to post surpluses and requirements.

Matching : Matches users with potential providers/consumers based on their needs.

Description

Our project, youSupply aims to reduce this need gap by connecting surpluses with deficits, in a straightforward manner. With our solution, there is no central store of surpluses, or a central organization. There are only users, who can both provide and consume resources, which more closely resembles real life.

Any user can log on, and let people know about any resources they need or have, and our algorithm will match them with users who can utilise their resources or provide them with resources they need. Our app aims to facilitate these provider-consumer relationships with minimum hassle

Additional Functionalities

- Integration with NGOs and government agencies.

- Location services for accurate resource matching.

- Emergency alerts for timely response.

 - Resource tracking for efficient management.

Misuse Prevention : Implement measures to prevent misuse of the platform.

Promoting Harmony : Features to foster a sense of harmony among users.

The Implementation

- Utilizes a relational database to store resources and facilitate user interactions.

- Mobile application frontend allows users to interact with the database.

- Factors like location are considered to display only feasible options to users.

- Draws inspiration from platforms like Snapchat's Heat Map

- Enables users to flag misuse and maintain a healthy community environment.

The Drawbacks

The app implements measures to prevent misuse such as reporting, but there is no absolute guarantee.

We still trust users to use the system responsibly, especially during times of disaster.

The app will promote positive interactions through its design such as likes, or ratings

Competitors

- **Good360:** Similar in functionality, but not in scope
- **Recovers.org:** Similar problem statement but a centralized solution designed for organizations

There are other services and efforts such as Airbnb homes, and CrisisCleanup, but where our solution differs is in its direct communication, where no central authority is involved in the individual transactions. This can lead to quicker transactions which is of paramount importance during a disaster