

Disaster Shelter Management System



1

Application Area - Disaster Relief

In the event of a disaster, people seek out shelters where they may find help, comfort, and care.

People may have homes that need repair. They may also need medical attention or require a temporary place to stay.

Shelters must be prepared with supplies, equipment, and workers to assist those victimized by the disaster.

Workers are given job types to assist where and how they are needed.

2

Need for Application

Keeps a record of the supplies and equipment at each shelter.

- Creates a way for the organization to see which shelters need what supplies and equipment.
- Allows disaster centers to stay organized.

Catalogs evacuees, so that relatives and friends can find their loved ones.

Allows for the organization to document the evacuees previously or currently present at shelters.

Allows for the shelter to view the status (injury/condition) of evacuees.

Documents the need for workers in certain locations.

- Shows the number of a certain type of worker present at each shelter
- Can be used for volunteers looking to help out in a specific way

3

Required

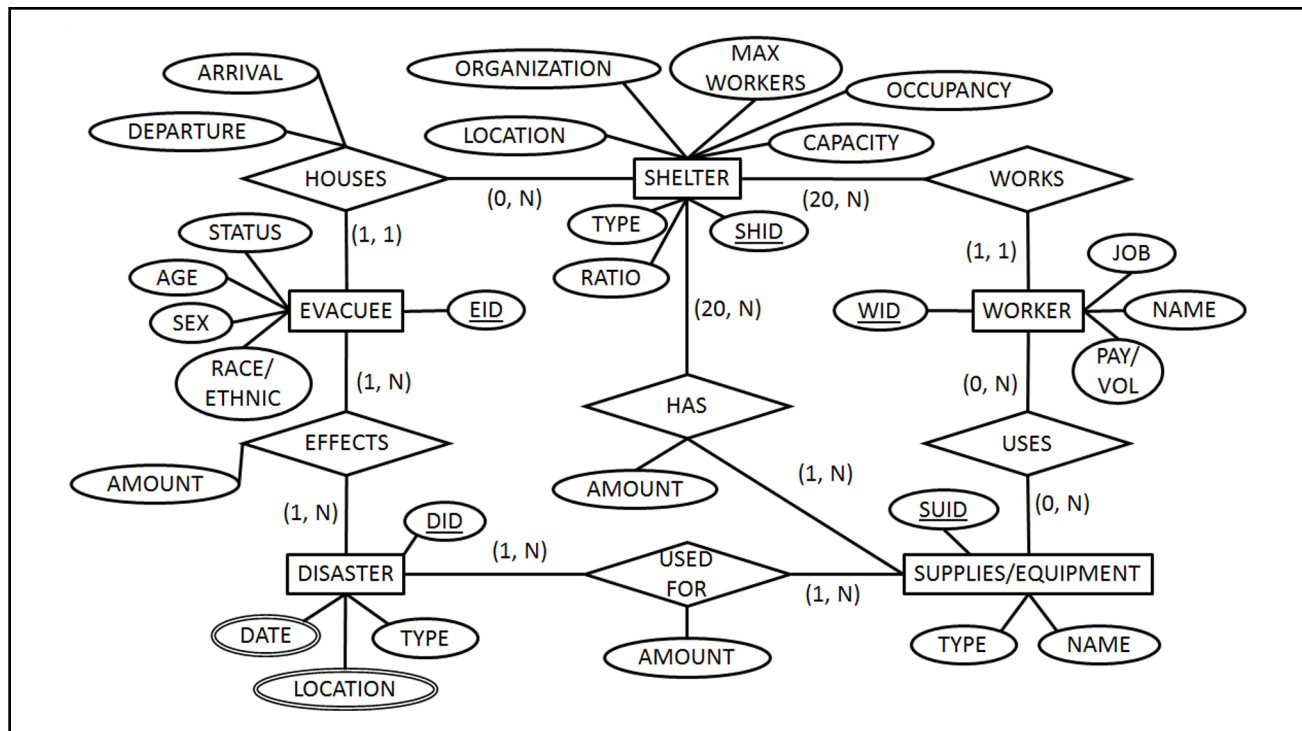
- Every shelter has at least basic capability of housing, providing medical care, and search and rescue (some may specialize depending on the disaster type).
- Every shelter has a maximum capacity for evacuees.
- Every shelter has a minimum of 20 workers and a maximum number of workers dependent on the shelter.
- Workers are either paid workers or volunteers.
- A worker can specialize in medicine, counseling, or response.
- A paid worker can be a manager.
- Every shelter has a minimum of 20 basic supplies and equipment necessary for the disaster.
- Supplies, equipment, and workers can be moved from shelter to shelter depending on need.
- Evacuees can be moved to other shelters if the current shelter is full or they need different type of help.

4

Forbidden

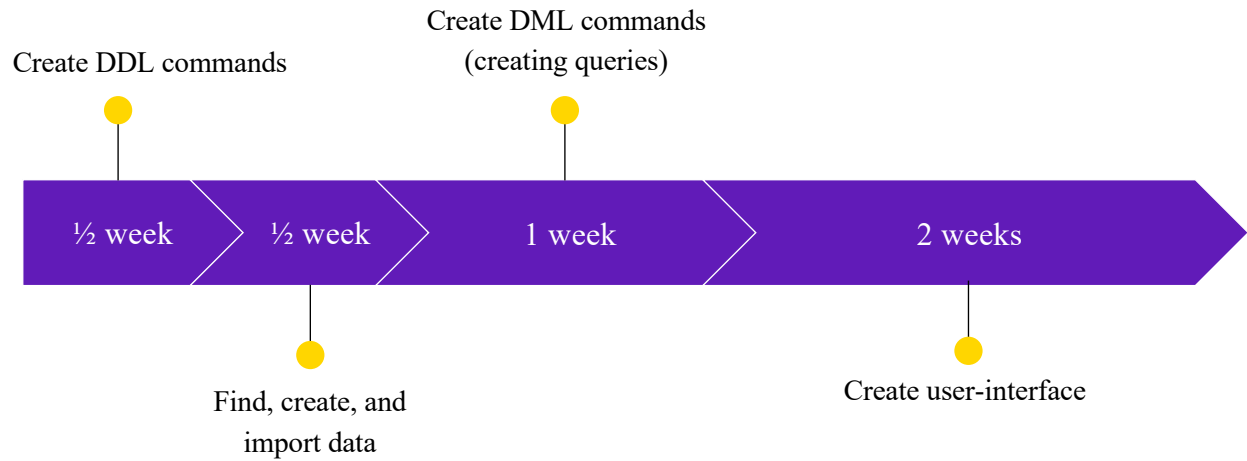
- Evacuees cannot outnumber staff more than 10:1.
- Shelters cannot use or send supplies or equipment they do not have or in greater amounts than they have.
- Workers cannot be both paid and volunteer.
- Evacuees with specific medical needs cannot be held at a shelter that does not have proper supplies/equipment.
- Volunteers cannot be managers.
- Volunteers cannot volunteer at shelters that have met maximum number of workers.

5



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Timeline



Each group member will work on all parts of the project, and each group member will present.