INFO 5100 Application Engineering and Development

Emergency
Response
Unit

Resource
Management
Unit

DMS

Recovery Unit

Mitigation
Unit

Disaster Management Project

Team No 19

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Problem Statement

What is Disaster Management System?

Disaster Management can be defined as dealing and management of resources and sharing responsibilities during a natural emergency. It involves preparing, re-building, and supporting the communities during after a natural disaster.

There are different disaster occurring around the globe and each calamity has a structured recovery and prevention plan as per the required scenarios.

The phases for a Disaster Management system could be defined as:
- Prevention
- Preparedness
- Mitigation
- Response
- Recovery

The actions taken to contain specify disaster varies depending on the hazard and the severity of the situation, but the main aim of the disaster management is to reduce, avoid the potential losses, provide immediate and effective assistance to the victims of the disasters, and provide focus in achieving recovery and re-development of the lost assets.

Effective Disaster Management System could be designed when individuals are educated in designing a proper system and prepared and made aware but its implications and disastrous effects. Efficient support and funding providing by government and individuals can contribute to creating an effective recovery system for the victims and providing them with normalcy.

These are numerous organizations involved in creating an effective ecosystem some of them are- Federal Emergency Management Agency (FEMA), Environment Protection Agency (NPA), Federal Bureau of Investigation (FBI) etc.

Object Model Diagram

Ecosystem
Network
Enterprise Directory
Enterprise
Organization Directory
Organization
User Account Directory
User Account

Emergency Response Unit
Recovery Unit
Mitigation Unit
Resource Management Unit

Disaster Management Organization
Police Organization
Fire Safety Organization
Hospital Organization
Volunteer Organization
PWD Organization
Contractor Organization
Vaccine Organization
Risk Management Organization

Work Queue
Work Request

User Registration Request
Emergency Response Request
Recovery Request
Mitigation Request
Volunteer Request
Disaster Head Request

Roles

System Admin
Emergency Unit Admin
Recovery Unit Admin
Mitigation Unit Admin
Resource Management Unit Admin
Police Admin
Fire Safety Admin
PWD Admin
Vaccine Admin
Volunteer Admin
Contractor Admin
Hospital Admin
Disaster Management Head
Finance Admin