
REQUIREMENTS GATHERING

GROUP 22



OUTLINE

1. Introduction
2. Reviewing Existing Mobile Disaster Management System (DMS)
3. Identify Stakeholders
4. Requirement Gathering Approaches
5. Manage Requirements Changes



1. INTRODUCTION

Requirement gathering is the process of collecting information about what the stakeholders wants.



2. Review Existing Mobile DMS

- Overview of mobile based disaster management system.
- Advantages of mobile based disaster management system.
- Limitations of existing mobile based disaster management system.
- Advantage of our mobile disaster management system over the existing ones.

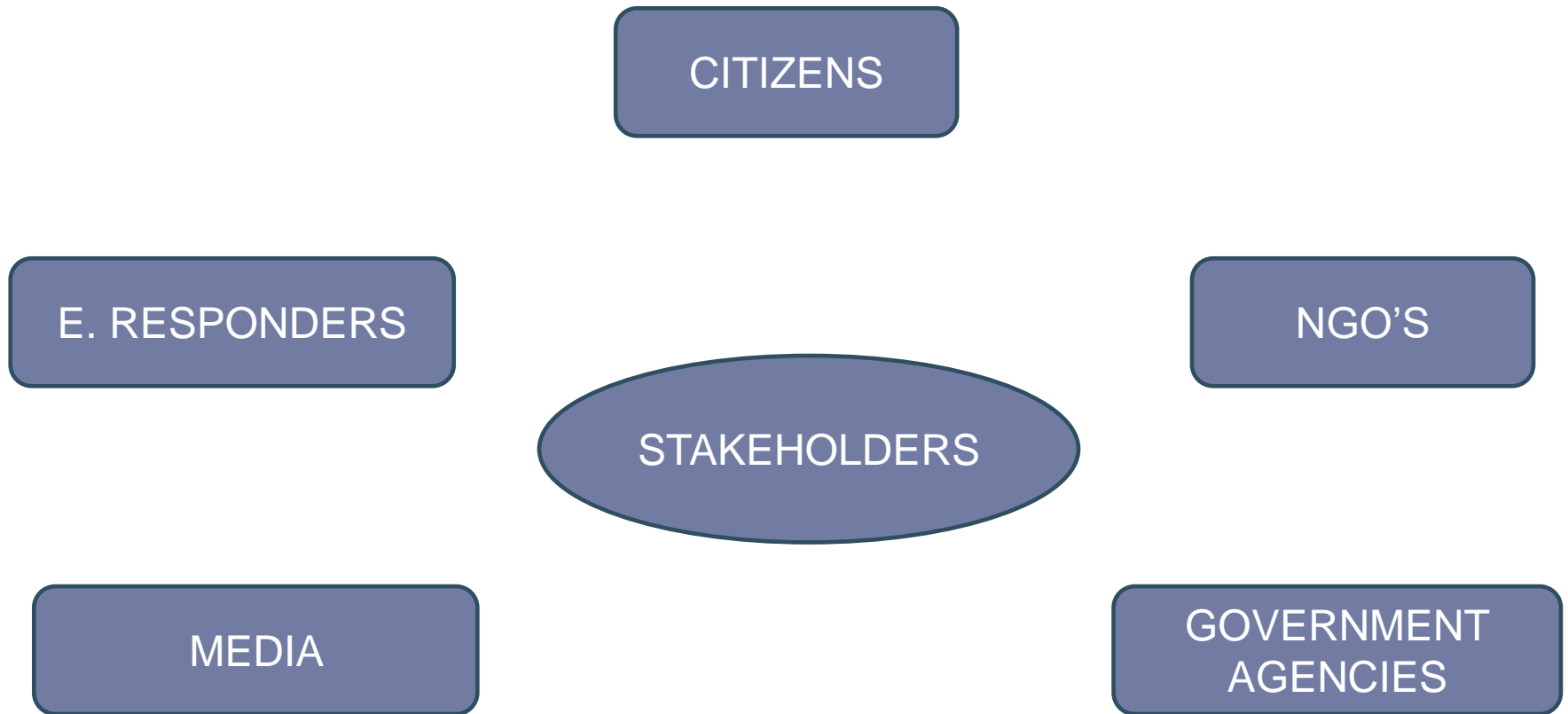


3. Identify Stakeholders

Stakeholders in a disaster management system are the individuals, groups, or organizations that have a stake in its success or failure.



3. Identify Stakeholders



Roles Of Our Stakeholders

1. Citizens: **Prepared, informed, engaged** for effective response.
2. Emergency Responders: **Trained, equipped, frontline heroes** saving lives.
3. Government Agencies: **Plan, mitigate, lead recovery** for resilient communities.
4. NGOs: **Humanitarian aid, relief supplies, long-term support** for rebuilding.
5. Media: **Inform, raise awareness, report** for prepared and informed communities.



4. Requirement Gathering Approaches

Our requirement gathering process involved 4 methods:

1. Web-based Survey
2. Document Review
3. Citizen interview
4. Brainstorming



Web-base Survey Form



Google Forms

- ▶ LINK : <https://forms.gle/7ctGEsQNciEiSxNv8>
- ▶ Quick & Wide Reach, Secure Data on Awareness & Mitigation.

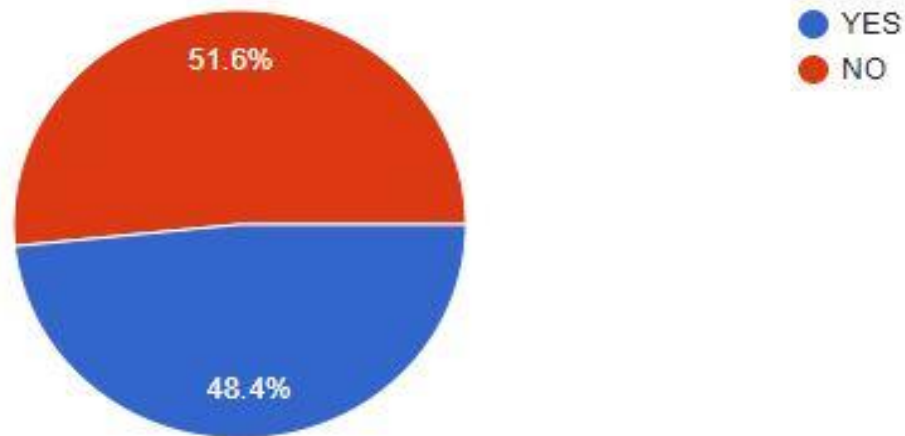


Data from the survey



Have you ever experienced a natural disaster ?

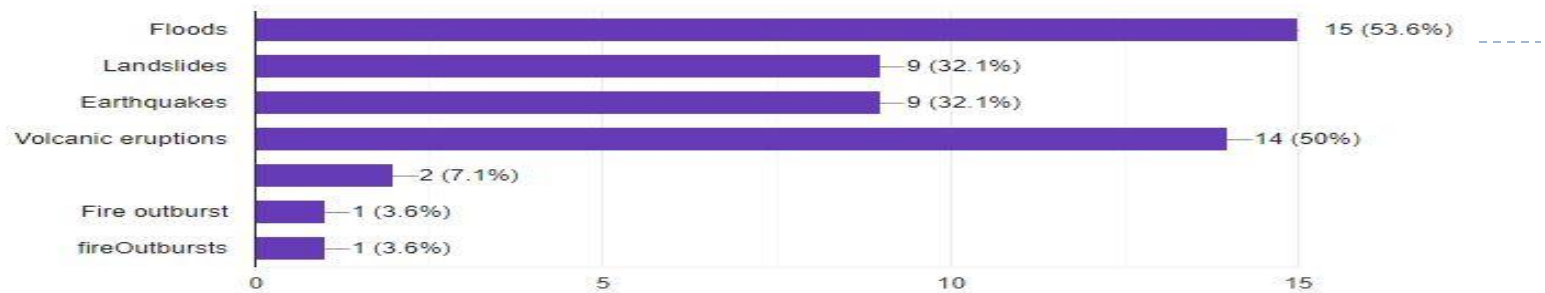
31 responses



In your opinion, what are the most likely ~~natural~~ disasters to affect your location?
(Select all that apply)

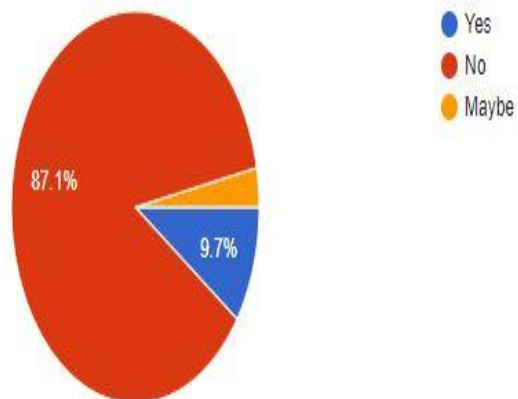
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28 responses



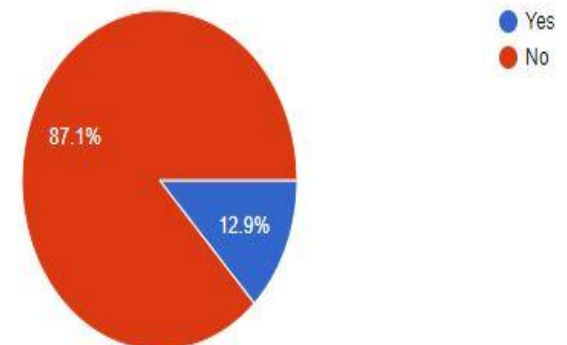
Have you participated in any disaster preparedness training or drills in the past year

31 responses



Does your household have a disaster preparedness plan

31 responses

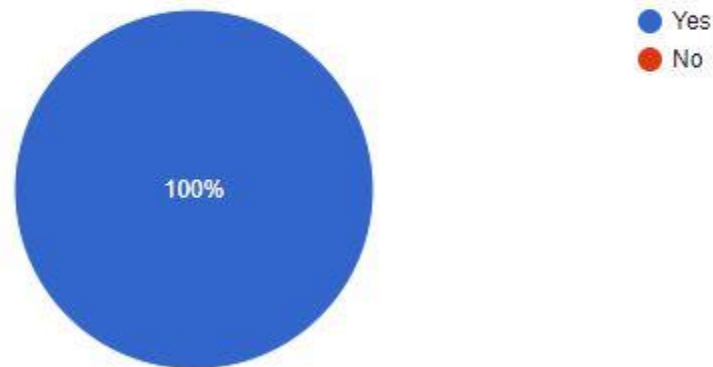


100% Acceptance of the Application

Imagine there was a mobile application designed to help residents prepare for and respond to disasters. Would you be interested in using such an application?

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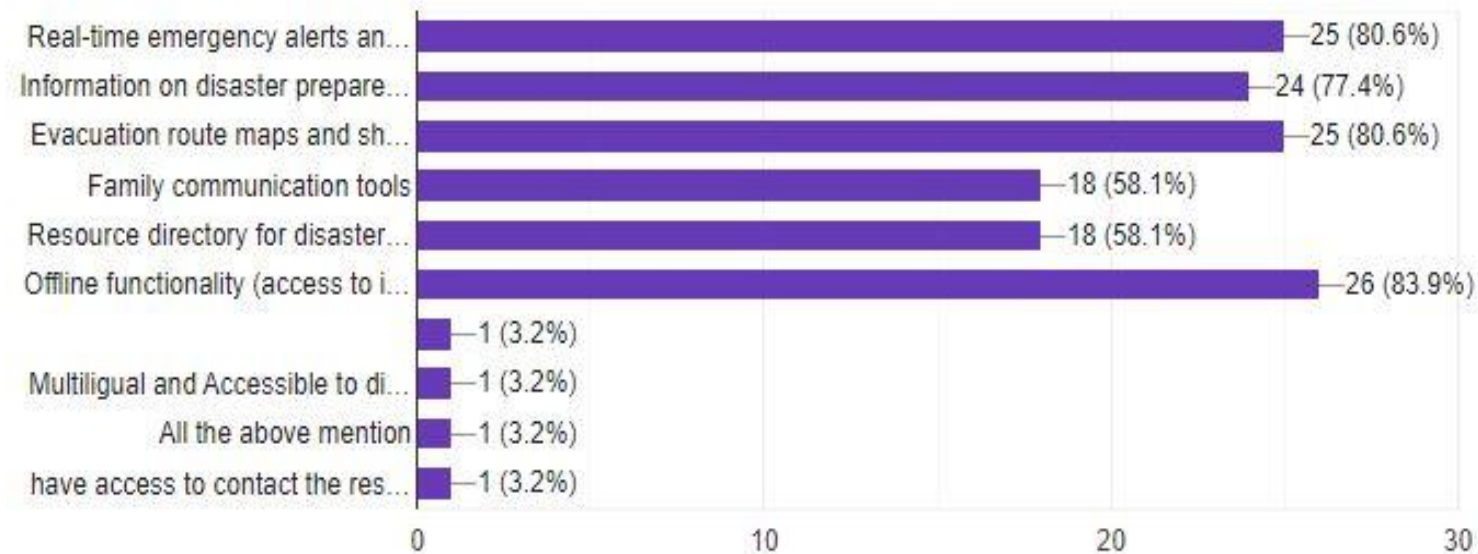
30 responses



**If yes, what features would you like this application to have? (Select all that apply)
and if you choose other, add the functionalites you wish the app should possess**

 Copy

31 responses



Document Review and Research

Sources

- **Local Emergency Response Plans:**

- https://floodready.vermont.gov/update_plans/local_emergency_operations
- https://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/emergency-preparedness-response-recovery/local-government/em_planning_guide_for_la_fn.pdf

- **Community Risk Assessments:**

- <https://riskassessment.strategicfire.org/wp-content/uploads/2016/03/Community-Risk-Assessment-Guide-v1.5.pdf>



Data collected from the document review and research

- 1. Early Warning Systems:**
- 2. Risk Assessment & Hazard Mapping.**
- 3. Disaster Response & Coordination**
- 4. Community Vulnerability**



Citizen Interview



1. User Feedback and Support
2. Offline functionality
3. Multi-Language Support
4. Report Disaster
5. Evacuation Routes
6. Request Help
7. Alerts and notifications
8. Receive alerts offline (SMS)
9. Usability



Brainstorming



After getting the needs of our stakeholders it was then time to put the team together and brainstorm having their needs in mind.



Brainstorming

1. Real-time alert and notification (Preparation & Response)
2. Resource Management (Preparation, Response, Mitigation)
3. Communication (Response, Recovery, Mitigation)
4. Geospatial data and mapping services (Response)
5. Incident reporting (Response)
6. Damage assessment (Response)
7. Disaster detection (Mitigation)



5. Manage Requirements Changes

1. Change Request Submission
2. Communication and Dissemination
3. Ongoing Monitoring and Evaluation



THE END!!!

