

Disaster Relief Fund and Coordination System

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CLIENT BACKGROUND

- ▶ **Habitat for Humanity Malawi** is a nonprofit organization addressing housing challenges in Malawi. It works with vulnerable groups to build disaster-resilient homes, improve sanitation facilities, and promote sustainable housing materials. The organization empowers communities through disaster risk reduction programs, rebuilding efforts, and housing advocacy.

CURRENT SYSTEM

- ▶ Currently, disaster relief efforts rely on fragmented processes, where fund collection, beneficiary verification, and distribution are managed manually. This often results in inefficiencies, delays, and lack of transparency in fund allocation.

IDENTIFIED PROBLEMS

1. **Lack of Transparency:** Difficulty in tracking fund allocation and usage, leading to possible mismanagement.
2. **Inefficient Beneficiary Verification:** Manual verification of beneficiaries is time-consuming and prone to errors.
3. **Resource Allocation Challenges:** Difficulty in identifying areas or individuals most in need during disasters.
4. **Coordination Gaps:** Limited collaboration among stakeholders, leading to duplicate efforts and missed opportunities.

AIM

- ▶ To develop a disaster relief fund and coordination system/Application that ensures transparent fund allocation, efficient beneficiary verification, and seamless collaboration during disaster recovery efforts.

SYSTEM OBJECTIVES

1. **Automated Beneficiary Verification:** Automate beneficiary verification using national IDs and disaster impact data.
2. **Fund Tracking System:** Provide a fund tracking system to ensure transparency and accountability.
3. **GIS-Based Disaster Impact Mapping:** Enable resource allocation through GIS-based disaster impact mapping.
4. **Real-Time Communication and Collaboration:** Facilitate real-time communication and collaboration among stakeholders.
5. **Post-Disaster Reporting and Analysis:** Generate post-disaster reports for analysis and future planning

METHODOLOGY

► Agile Development Methodology

- **Iterations:** Develop modules like fund tracking, beneficiary verification, and GIS mapping incrementally.
- **Continuous Feedback:** Regular input from Habitat Malawi staff, local government, and beneficiaries.
- **Adaptability:** Adjust the system based on disaster-specific requirements.