



## Designing a Community-Based Disaster Relief Management System for the Non-Government Organization, OG Cares Foundation

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**Abstract:** During typhoons and calamities, proper relief good allocation has always been an issue. People in the affected areas are eager to get help in order for them to survive and the foundations and organization are abrupt to answer to these needs given that their resources are handled well. OG Cares Foundation is one of these organizations who try to answer to the needs of the victims as soon as they can. However, the organization is unable to fully maximize their services for the relief operations due to poor donor and inventory management, and not being able to identify exactly the list of members and areas affected by disasters.

This study is focused on how an information system (IS) can help address these issues and in turn enable the organization to perform their operations efficiently. The proposed IS solution is a community-based disaster relief management system (CBDRMS). A community-based approach is deemed more effective in the current situation as government help commonly fails to reach local sectors. A CBDRMS will help communities maximize all their resources efficiently and help out more affected areas and victims. Disaster relief is performed in order to alleviate a disaster's impact and hopefully reduce its potential for long-term casualties. Because of this, fast and immediate response is highly reliant on efficient operations which could be aided by a properly developed CBDRMS.

The said CBDRMS developed specifically for OG Cares Foundation will have a Member Status Management Module, Planning Module, Donor Management Module, Inventory Module, Resource Allocation Module, Reports Generation Module and a mobile application. These modules were defined and customized based on the operations of OG Cares Foundation. Furthermore, the CBDRMS is deemed to help the foundation to manage and keep records of their operations despite the rushed and fast-paced activities of disaster relief.

**Key Words:** CBDRM, disaster preparedness, disaster response, relief allocation, relief management, Philippine flooding