



PROJECT YOLO: A Disaster Response Coordination System

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Abstract: Project YOLO is a Disaster Response Coordination System that assists MCDRRMO in exchanging essential disaster information and coordinating with the supporting agencies. Concepts such as disaster management, information quality, information visualization, crowdsourcing and coordination are integrated by the system. Disaster management consists of four phases, however, the system only focused on the response phase. Also, information quality allows the system to improve the quality of information and avoid insufficiency. Information visualization is being used to present data about the status of the area with the use of photos. Crowdsourcing, with the help of mobile technology, enables a source of reliable information and is composed of high-quality information. Coordination allows the involved stakeholders to communicate and collaborate when performing disaster response activities and have available information to identify opportunities.

The researchers are currently using the agile methodology in completing the system, it follows the software development life cycle which includes requirements gathering, analysis, design, coding, testing and delivers a prototype and waits for the customer feedback. It is often used for short-term projects with a team that wills to achieve a successful project by exerting sufficient effort to complete it. The team dedicated the first weeks of project development in analyzing the organization's background, problems, processes, and has come up with a proposed solution from these pieces of gathered information.

Project YOLO will provide advantages to the involved agencies in disaster management especially MCDRRMO. Numerous instances of miscommunication and information errors will be avoided, thus, a more efficient and dependable response will be pooled for the city's residents. The project can also be a basis for other local government units that wish to improve disaster response coordination. Other units consider ICT to be a solution when it comes to improving operations in disaster management and government units as a whole.

Keywords: Disaster Management; Disaster Response; Coordination; Information Quality; Crowdsourcing