

Automated Disaster Management Assistant System to Improve the Performance of Divisional Secretariats in Sri Lanka

PBD Ariyaratna, WAAM Wanniarachchi

Department of Information Technology, Faculty of Computing, General Sir John Kotelawala Defence University, Ratmalana, Sri Lanka

Abstract. Disasters are happening in this world every day. Managing Disaster Information and providing an efficient service to the public is a very important and vital task. In Sri Lanka, the majority of people have to face disasters. Managing disaster details and damages are the tasks of the Disaster Management Officer. They handle the manual paper-based system to manage disasters relief services. However, there are still several major issues in disaster management for which no effective solution has been found. The existing manual system's big problem is very complex to handle. Other problems are it takes huge time to process complaints, having the risk of missing files, and inability to update data on time. As well as there are many problems on the Disaster Management Officer side and User side. As a result, this research paper mainly provides an effective solution to the issues highlighted and to improve the efficiency of Disaster Management systems. This proposed system will provide a huge service to Disaster Management Officer to fulfil the duty without any delay and user able to connect with disaster details and searching safety locations with systems google map and warning alerts. This research is based on the automated Disaster management system for Divisional Secretariat Office, and it has been updated to a computerized automated system. The Disaster management system for Disaster management officers will allow for the efficient creation and management of disaster details, as well as the auto fund allocation for the disaster damages relevant families and this system achieves usability enabling easy input of damage information, even by local government staff with no expertise, by using a digital pen and tabletop user interface.

Keywords: *Information management, Manual, Automated Disaster Management System*