

Web-Based Dengue Prevention System
For the
Office of Medical Officer of Health

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Declaration

I declare that this thesis is my own work and has not been submitted in any form for another degree or diploma at any other universities or other institutions of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and list of references are given.

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Abstract

Office of Medical Officer of Health (MOH) is a government organization which is governed by the Ministry of Health. The primary operation of MOH is protecting people from diseases and uplifting peoples health. Now Dengue fever has become a major threat to our country. Kinniya is also prone to this threat. MOH office is very concerned to protect people from Dengue fever. All PHII of MOH Office goes around their relevant areas to inspect, to give awareness and to provide information. If the Hospital informs the MOH of any diagnoses of dengue patients over the telephone the and MOH officials have to collect information by visiting the hospital. MOH officer needs to analyze dengue-affected area and patients to take important decisions. They use manual systems to carry out their day to day activities. This project focuses on to speed up activities. There are some computerized systems to implement these kinds of activities such as www.dengue.lk, www.ndcu.lk. In these systems, a user can get a current analysis of dengue patients, national events on dengue, important messages, etc.

The "Web-Based Dengue Prevention System" is built to overcome the above-mentioned problems such as inefficiency, time-consuming, redundancy of data and unavailability of timely information of the current manual system. This system includes Patient Management, Complain Management, News update Management, Blog Management, Staff details, Map Management, and Report Modules.

The system has adopted the Model View Controller (MVC) Architecture and Object-Oriented Techniques. Unified Modelling Language (UML) was used for analysis. Server-side scripting language Hypertext Pre-Processor (PHP) has been used to build the system and Apache has been used as the web server. MySQL has been used to handle databases. WBDPS is responsive and browser friendly website. This report presents the outcome of the requirement gathering (system analysis), system design, implementation, testing and evaluation in a structured and logical manner to give the reader clear insight of the work carried out throughout the project duration. At the bottom line, this system will ensure that day to day activities in MOH office are handled efficiently and effectively.

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