

# Child Medicare System for Sri Lanka

W.D.R Wijedasa<sup>1</sup>, B.L.D Senevirathne<sup>2</sup>, J.C Balasuriya<sup>3</sup>

Faculty of Information Technology, University of Moratuwa, Sri Lanka

dwijedasa2@gmail.com<sup>1</sup>, leelangas@uom.lk<sup>2</sup>, jcbala@uom.lk<sup>3</sup>

*Abstract:* An effective and efficient healthcare system can be considered as one of the essential parameters for a country's sustainable development. Non existence of a proper system to collaborate all healthcare settings and healthcare professionals, to provide full detailed medical history of each child from the stage of birth can be considered as a major issue in health sector of Sri Lanka. This paper propose a Child Medicare System which is capable of providing a full detailed medical history of a child from the stage of birth, via collaborating all healthcare personnel and healthcare settings, to aid informed decision making. The proposed solution has been designed with four main modules namely Health Infor, Agent Services, Account Infor and Geographical Infor. Health Infor module is considered as the heart of system. The overall system is developed based on client server architecture using variety of technologies such as Agent, Mobile, Data mining, Database, Web, Multimedia, Active Server Pages and C sharp. The proposed solution has been tested with unit tests, integration tests, and with a system test. It has been found that the system consist around 80 % of accuracy.