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Information Technology for Sri Lanka Traffic Police

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Dissertation submitted to the Faculty of Information Technology, University of Moratuwa, Sri Lanka for the partial fulfillment of the requirements of the Degree of Master of Science in Information Technology.

February 2011


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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 university or other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.

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Acknowledgements

First my sincere thank goes to Prof. A S Karunananda, Director of Postgraduate Studies, faculty of Information Technology, University of Morauwa and Mr. Saminda Premarathne course coordinator for Msc in IT, faculty of Information Technology, University of Morauwa.

I am fortunate to have been able to work in this project with the talent and vast experience of Dr. G. D. S. P. Wimalaratne, as my project supervisor. He has given me enormous support, guidance and undoubtedly a massive backing up to make this Project successful. I have no words to express my gratitude. I also thank other staff members of faculty of Information Technology, university of Morauwa for helping me to complete my project successfully.

My special thanks also go to the traffic officers in Galle and Matara Police branches who supported me to understand their manual system.



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Abstract

Sri Lanka traffic police is the largest network who supplies various kinds of services for the public community. Therefore police department must have a best information system to communicate with other Departments and public communities and exchange their information. Road users such as pedestrians and drivers do not have a proper way to learn road rules and regulations. Even though books with road signs and regulations are available in book shops, most of them are old editions.

Today web based information systems are most popular methods for data communication. Therefore, web based system is proposed to Sri Lanka traffic police to overcome this problem. This system has three types of users. They are road user, traffic police and problems accountable traffic officer etc. Road user can get information about road rules, road signs and information related to road traffic. Also they can provide information to traffic police and get help from them using SMS and online help desk service. Also road user can face online road rule examinations. Traffic police officers can investigate questions made by civilians, give necessary answers for civilian's questions, check driving license and information about vehicles etc. There is a one special account for the Inspector General of Police. By using this account civilians can directly submit their problem to the Inspector General of Police. Problem Accountable traffic officer is available to every traffic branch. Users can input day to day road accidents, road rule violations, request answers for their questions, arrange and maintain court cases etc. Another facility in this system is that every traffic police officer was provided an e-mail account. Also all information and instructions are available in Sinhala, Tamil and English language.

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List of acronyms and abbreviations

1	IGP	Inspector General of Police
2	NIC	National Identity Card
3	CCTV	Closed-circuit television
4	SIM	Subscriber Identification Module
5	GSM	Global System for Mobile communications
6	PC	Personal Computer
7	MMS	multimedia messaging service
8	CMS	Content Management System
9	SMTP	Simple Mail Transfer Protocol
10	VPN	Virtual Private Network
11	SL	Sri Lanka



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