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Mobile Device Driven Taxi Management System

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Dissertation submitted to the Faculty of Information Technology,
University of Moratuwa, Sri Lanka for the partial fulfillment of the
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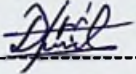
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Declaration

We declare that this thesis is our 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 Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.



Duminda D. F. Piumwardena

June 12, 2015

Supervised by:



Dr. Thilak Chaminda

June 12, 2015

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Thank you,

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Abstract

This dissertation is about the project 'Mobile Device Driven Taxi Management System'. The project consist tree main software implementations as Server Sub System (SSS), Operator Desktop – Client application (ODC) and Vehicle Driver's Mobile application (VDM). SSS is the core and service provider for both ODC and VDM applications. The main objective of the above Sub systems architecture is to use the currently available web and mobile technologies in development of the solution and high availability of the system in operation at the business point of view.

In the first phase of the Software Development Life Cycle the knowledge of taxi management domain has been acquired. They have been analyzed and best architectural design was decided based on the requirement. Code level implementation and suitable tests were conducted prior release of the software to the Business Client. Mainly the Iterative Model of Development has been used for Software development in the project to minimize the time and requirement gathering ambiguities. Then in each phase there have been modules were developed in the development of code.

The software solution has been delivered to the business client and the solution has been deployed on their computer systems.

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