

**AN ANALYSIS OF USER CREATED SOURCE CODE
SAMPLE USAGE**

**MASTER OF BUSINESS ADMINISTRATION
IN
INFORMATION TECHNOLOGY**



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December 2008

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The Dissertation was submitted to the Department of Computer Science & Engineering of the University of Moratuwa in partial fulfillment of the requirement for the Degree of Master of Business Administration.

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December 2008

Declaration

I hereby recommend that the dissertation prepared under my supervision by Mr. C.N.T Himidumage titled “An Analysis of User Created Source Code Sample Usage” be accepted in partial fulfillment of the requirement for the Degree of Master of Business Administration in Information Technology.

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Abstract

Software development is a challenging task. Technologies change rapidly and engineers get new problems to solve often. Software engineering is a discipline where reusability can be used to simplify complexities and speedup development. Among the many different approaches of code reuse, sample source code plays a major role in speeding up the development process. With the growth of the internet, it became easier to publish and consume content via the World Wide Web including source code samples.

This research statistically verifies using a hypothesis test the User Created Source Code Sample (UCSCS) usage level among Sri Lankan Software Engineers. Additionally, qualitative analysis of how UCSCS are used by engineers with different levels of experience and different stages of a project delivery are also performed.

The study showed that the usage level of UCSCS is generally high among engineers but varied significantly with the experience level and purpose of use.



Acknowledgement

This dissertation is an outcome of effort to complete a successful research during last ten months duration. Many people helped me in various ways to make this venture a success during this time period.

First of all, my gratitude should go to my external supervisor Dr. Buddinath Jayathileke who guided me through this research with a great interest. His guidance and directions added extra value to the analysis and finding of this dissertation.

Then my gratitude goes to Dr. Sanath Jayasena who acted as the internal supervisor for the research who helped me throughout the last year for sharing his expertise with me to make this research a success.

I take this opportunity to thank each and every individual professional, who participated and contributed their views and responses by spending time for interviews, which lead to comprehend my research results. If not for there valuable contributions, this research would not have been a success.

Special thanks to Mrs. Vishaka Nanayakkara and her staff in the CSE Department of University of Moratuwa for their devotion and commitment towards the MBA program. I also wish to convey my heartfelt thanks to all lecturers who guided me during the entire course for nearly two years.

Last, but definitely not the least, my heartfelt thanks go to my wife who always encouraged and helped me to complete the research on time. Many thanks also extend to my parents and all family members for their help, support and encouragement that have given to me over the years for the completion of the MBA.

Chinthaka Himidumage

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Abbreviations

AOP	Aspect Oriented Programming
CKO	Chief Knowledge Officer
ICTA	Information and Communication Technology Agency
KM	Knowledge Management
OOP	Object Oriented Programming
SOA	Service Oriented Architecture
UCC	User Created Content
UCSCS	User Created Source Code Samples
WWW	World Wide Web



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