

**AN EVALUATION OF INFORMATION SYSTEM SUCCESS BASED
ON STUDENTS' PERSPECTIVE: THE CASE OF HADRAMOUT
UNIVERSITY**

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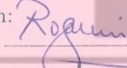
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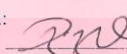
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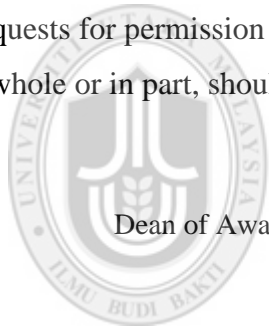
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Abstrak

Penilaian sistem adalah bahagian yang penting dalam pembangunan sistem bagi meningkatkan prestasi sesebuah sistem. Walau bagaimanapun, kajian telah menunjukkan kurangnya penyelidikan terhadap penilaian kejayaan sistem maklumat di universiti-universiti di Yaman. Dapat juga diperhatikan bahawa banyak projek sistem maklumat yang dibiayai di Yaman telah siap dan dilaksanakan tanpa dibuat penilaian. Sistem Maklumat Pengurusan Pengajian Tinggi Yaman (YHEMIS) antaranya merupakan pembangunan aplikasi berskala besar dan telah dilaksanakan tanpa penilaian. Justeru, kajian ini menilai aplikasi YHEMIS dengan meneliti faktor-faktor yang mempengaruhi kepuasan pengguna dan penggunaan sistem yang akan memperlihatkan manfaat sistem berkenaan. Kajian ini mencadangkan model DeLone dan McLean dengan tambahan sokongan pengurusan sebagai faktor luaran untuk mengenal pasti apakah faktor yang mempengaruhi penggunaan YHEMIS dan begitu juga faktor yang menjejaskan kepuasan pengguna ketika menggunakan aplikasi. Tujuan kajian antara lain adalah untuk mengetahui sama ada pembangunan YHEMIS memberi manfaat kepada pelajar. Kajian ini menggunakan kaedah kuantitatif dengan mengagihkan borang soal selidik kepada pengguna (iaitu pelajar) YHEMIS di Universiti Hadramout. Kaedah pensampelan rawak berstrata digunakan, dan sebanyak 261 borang soal selidik telah dikumpulkan. Dapatan kajian menunjukkan bahawa kualiti maklumat, kualiti sistem dan sokongan pengurusan mempengaruhi penggunaan dan kepuasan pengguna serta memainkan peranan penting dalam kejayaan YHEMIS. Selain itu, hasil kajian menunjukkan bahawa kepuasan pelajar mempunyai kesan yang kuat ke atas faedah bersih persepsi yang dibawa YHEMIS untuk pelajar. Penyelidikan ini menyediakan data empirikal pertama terhadap penilaian kejayaan sistem maklumat yang dijalankan ke atas YHEMIS bagi sebuah universiti di Yaman. Berdasarkan keputusan kajian, pihak yang berkepentingan boleh mendapatkan maklum balas untuk menambah baik sistem dan memberi input untuk membangunkan projek-projek sistem maklumat. Dapatan kajian juga berupaya memberikan sokongan kepada pengurusan Universiti Hadramout terhadap projek-projek atas talian yang lain. Oleh itu, YHEMIS boleh dikatakan berjaya dan kepuasan pengguna (pelajar) boleh dianggap sebagai penanda aras kejayaan ke atas penggunaan sistem dan faedah bersih.

Kata kunci: DeLone dan McLean, Yemen, Mukalla, Universiti, Sistem Maklumat, Penilaian, Kejayaan, Sokongan Pengurusan, Pelajar.

Abstract

Evaluation of systems is an important part of systems development to improve systems performance. However, studies showed a lack of research done on information system success evaluation in Yemen universities. It was also observed that many funded information system projects, in Yemen, were completed and implemented without evaluation. The Yemen Higher Education Management Information System (YHEMIS), is a large scale application developed and implemented without evaluation. Hence, this research evaluates the YHEMIS application by investigating into the factors that influence user satisfaction and system use which will further show the benefit of the system. This research endeavors to propose an evaluation DeLone and McLean model with the addition of an external factor management support to identify what factors influence the use of YHEMIS and likewise affect the user satisfaction when using the application. The aim of this study is to also to find out whether the development of YHEMIS is of benefit to the students. This study applies the quantitative approach to distribute questionnaires to users (students) of YHEMIS in Hadramout University. The stratified random sampling method was used, and 261 questionnaires were collected. The research findings showed that information quality, system quality and management support influenced the use and users satisfaction and played a vital role in the success of YHEMIS. The findings showed that students' satisfaction have the strongest effect on the perceived net benefits YHEMIS brought for the students. This study provides the first empirical data on the evaluation of information system success conducted on YHEMIS for a Yemen university. Based on the results, stakeholders can get the feedback to improve the systems and provide input to develop other information system projects. The research findings can provide the support to the management of Hadramout University to other online projects. Hence, YHEMIS can be said to be successful and users (students) satisfaction can be considered as the indicator of the success on system usage and net benefit.

Keywords: DeLone and McLean, Mukalla, University, Information System, Evaluation, Success, Management Support, Students.

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Glossary of Terms

Acronym	Definition
IS	Information System
ISs	Information Systems
IT	Information Technology
ISD	Information Systems Development
DM	DeLone & McLean
HDI	Human Development Index
YHEMIS	Yemen Higher Education Management Information System
ICT	Information Communication Technology
SPSS	Statistical Package for the Social Science
PLS	Partial Least Squares



CHAPTER ONE

INTRODUCTION

Chapter one gives an idea about this study. This chapter describes the Background to the Problem Statement, Problem Statement, Research Questions and Objectives, Scope, and Significance of the study.

1.1 Overview

Information system (IS) research has been evolved from well-formed majors like (computer science, operational research, organizational behavior and administration). However, information systems (ISs), itself, cannot develop an individual discipline, even though; it is deemed as a valid applied research that supports the organizational process changes. Supporting deep understanding of IS needs analytical, empirical models and conceptual research (Irani, Gunasekaran & Love, 2006). Irani et al (2006), emphasized that IS had formidable impact in all parts of society including education, health, etc. IS life cycle begins with its creation and ends with its termination. Actually, information systems development (ISD) follows the IS life cycle.

ISD is a long process that is comprised of various stages and based on Cohen (2010), these stages are “requirements, analysis, design, coding, testing, installation, operation, maintenance and less emphasized retirement”. Based on Jirava (2004), “investigation, user requirements, analysis, design, implementation and release” are the stages of the IS life cycle. Thus, an information system can be initiated and implemented, but changes are needed from different stakeholders.

The contents of
the thesis is for
internal user
only

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