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User Interface Factors that Influence the Adoption of “Aplikasi Pangkalan Data Murid” (APDM): A Case of Secondary Schools at Kubang Pasu Kedah.

RISNIAH BINTI YUNUS

MASTER OF SCIENCE (INFORMATION TECHNOLOGY)
UNIVERSITI UTARA MALAYSIA
2017
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Abstrak


Kata Kunci: Faktor Penggunaan Perisian, Antara Muka Pengguna, Tanggapan Kebergunaan, Tanggapan Kemudahan gunaan, Kepuasan Pengguna
Abstract

Nowadays, Student Information System (SIS) also known as “Aplikasi Pangkalan Data Murid (APDM)” is widely used by many schools and getting attention by many researchers in various angles and issues. Before conducting any software adoption study on the implementation of APDM, an immediate action on the basic issues of the adoption factors that influence the APDM usage needs to be performed. The existing APDM adoption factors are not comprehensively constructed and tested in technical (User Interface: Screen, Terminology, Learning and System Capabilities), social (Perceived Usefulness, Perceived Ease of use), and behavioral (User Satisfaction) perspectives. Therefore, this study aims to identify the software adoption factors that influence the adoption of APDM in Kubang Pasu, Kedah secondary schools. A survey was conducted on 110 teachers from five secondary schools. Data were analyzed using correlation, analysis of variance and multiple regression tests. The findings show that the APDM screen layout is the most influential significant factor on Perceived Usefulness and Perceived Ease of Use. In addition, Perceived Usefulness is the most influential factor on User Satisfaction towards APDM as compared to Perceived Ease of Use. In sum, the teachers perceived that the APDM’s screen layout was very helpful, contains adequate information, and easy to navigate. The findings may contribute to the educational domain particularly in recommending decision makers of the Ministry of Education Malaysia (MOE) for APDM future enhancement.

Keywords: Software Adoption Factors, User Interface, Perceived Usefulness, Perceived Ease of Use, User Satisfaction
First and foremost, my greatest gratitude goes to Allah for granting me the strength, perseverance, patience, confidence and wisdom to complete this study.

I would like to express my deepest appreciation to my Supervisor, Assoc. Prof. Dr. Haslina Mohd for her motivation, knowledge sharing and invaluable guidance during this study. I will always appreciate her help, time, contributions, and efforts towards the completion of this study.

Special thanks and gratitude to my family, especially for my mother, Jukira Baladan, my father, Yunus Abdul Guntur, as well as my brothers and sisters for their endless supports and sacrifices. Words cannot express how grateful I am.

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<th>Description</th>
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<tbody>
<tr>
<td>APDM</td>
<td>Aplikasi Pangkalan Data Murid</td>
</tr>
<tr>
<td>BPPDP</td>
<td>Bahagian Perancangan dan Penyelidikan Dasar Pendidikan</td>
</tr>
<tr>
<td>EG-HRMIS</td>
<td>Electronic Government Human Resources Management Information System</td>
</tr>
<tr>
<td>EMIS</td>
<td>Education Management Information System</td>
</tr>
<tr>
<td>EMR</td>
<td>Electronic Medical Records</td>
</tr>
<tr>
<td>E-SAS</td>
<td>Electronic Student Academic System</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphic User Interface</td>
</tr>
<tr>
<td>ICT</td>
<td>Information and Communication Technology</td>
</tr>
<tr>
<td>IM</td>
<td>Information Management</td>
</tr>
<tr>
<td>IS</td>
<td>Information System</td>
</tr>
<tr>
<td>ISIS</td>
<td>Integrated Student Information System</td>
</tr>
<tr>
<td>IT</td>
<td>Information Technology</td>
</tr>
<tr>
<td>JPA</td>
<td>Jabatan Perkhidmatan Awam Malaysia</td>
</tr>
<tr>
<td>JPN</td>
<td>Jabatan Pendidikan Negeri</td>
</tr>
<tr>
<td>LMS</td>
<td>Learning Management System</td>
</tr>
<tr>
<td>MIS</td>
<td>Management Information System</td>
</tr>
<tr>
<td>MOE</td>
<td>Ministry of Education Malaysia</td>
</tr>
<tr>
<td>MP-TAM</td>
<td>Multiple Perspective Technology Acceptance Model</td>
</tr>
<tr>
<td>PEOU</td>
<td>Perceived Ease of Use</td>
</tr>
<tr>
<td>PG</td>
<td>Pengurusan Guru</td>
</tr>
<tr>
<td>PM</td>
<td>Pengurusan Murid</td>
</tr>
<tr>
<td>PPD</td>
<td>Pejabat Pelajaran Daerah</td>
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<tr>
<td>PS</td>
<td>Pengurusan Sekolah</td>
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<tr>
<td>PU</td>
<td>Perceived Usefulness</td>
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<td>SAPS</td>
<td>Sistem Analisis Peperiksaan Sekolah</td>
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<td>Student Information System</td>
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<tr>
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<td>Sistem Maklumat Guru</td>
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<td>School Management Information System</td>
</tr>
<tr>
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<td>Sistem Maklumat Murid</td>
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<td>SMPP</td>
<td>Sistem Maklumat Pengurusan Pendidikan</td>
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<td>SPS</td>
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<td>SSDM</td>
<td>Sistem Salah Laku Disiplin Murid</td>
</tr>
<tr>
<td>SSMS</td>
<td>Smart School Management System</td>
</tr>
<tr>
<td>TAM</td>
<td>Technology Acceptance Model</td>
</tr>
<tr>
<td>TRA</td>
<td>Theory of Reasoned Action</td>
</tr>
<tr>
<td>UI</td>
<td>User Interface</td>
</tr>
<tr>
<td>UTAUT</td>
<td>Unified Theory of Acceptance and Use of Technology</td>
</tr>
<tr>
<td>QUIS</td>
<td>Questionnaire User Interface Interaction Satisfaction</td>
</tr>
<tr>
<td>XML</td>
<td>Extensible Markup Language</td>
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1.1 Overview and Motivation

Nowadays, computer technology plays important roles in education worldwide. Habib Mat Som and Ahmad Kamaluddin Daud (2008) and Ohmae (1995) found that the development of Information Technology (IT) and globalization demolish the national borders in all sectors including education. Meanwhile, Adebayo and Fagbohun (2013) and Abolade and Yusuf (2005) have proven that Information and Communication Technology (ICT) leads as the fundamental tool in any educational system in the current century.

In addition, Mojgan Afshari, Kamariah Abu Bakar, Su, and Saedah Siraj (2012) have also proven that ICT influences the roles of transformational leadership in schools. Earlier, when technology was initially incorporated, Attaran and VanLaar (2001) discovered that school principals act as the technology leaders in influencing the use of presentation software, word processing, and spreadsheets in teaching and learning. The principals also make sure that they know the way to communicate with the broader community using internet applications. Hence, Felton (2006) and Mojgan Afshari et al. (2012) believe that school principals must possess computing capabilities to enable them to catch up with the dynamic progress of ICT in the digital era.
The contents of the thesis is for internal user only
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