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Software System Selection for Open University System

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Abstract: Software quality assessment is one of the key factors for the success of universities, so this study focuses on the study of technical quality. Measurement factors apply to universities in information systems, including software quality. The novel model is used to test whether the implementation of e-learning system in higher education institutions will succeed or fail. The scope of this investigation is free and the evaluated universities have open source e-learning systems that measure and evaluate quality according to our proposed software quality model. Educational Information System (AIS), which combines many software quality standards to help system analysts, system developers, and systems. Programmers in their AIS projects. Quality model, six quality characteristics are shown as the minimum requirements for creating a new model. This has been further enhanced by the expansion of the standard approach to measuring the quality of AIS based on a combination of several. Software quality standards used in these educational systems with new features. Using the novel model to test whether e-learning is implemented, the system will succeed or fail in higher education institutions. Our contribution and development will be discussed on this. The new model aims to guide educational institutions that are in the process of creating their e-learning system to evaluate and select the right software. Features that are essential for the success of the entire system. In addition, this paper provides several reviews of current methods used to select AIS components and outlines their disadvantages in terms of our advanced models.

Keywords: Educational, Information System, A-Learning System, Software Quality Model, ISO 312.

REFERENCES

- [1]. Al rawasdeh, A., & Al matalqa, B. (2006). a new software quality model for evaluating COTS components. journal of computer science 2(4),373-381.
- [2]. Al Adwan, A. S. (2017). Development of E_learning in the Higher Education Systems. German: Deutsh Nationalbibliothek.
- [3]. Al Adwan, A. S. (2018). Development of E_learning in the Higher Education Systems. German: Deutsh Nationalbibliothek.
- [4]. Almarabeh, T. (2014). Students' perceptions of e-learning at the University of Jordan. International Journal of Emerging Technologies in Emerging Technologies in Elearning.
- [5]. Almarabeh, T., & Mohammad, H. (2013). E-learning in the Jordanian higher education system: strengths, weakness, opportunities, and threats. Journal of American Science, 9(3), 281-287.
- [6]. Journal of American Science, 9(3) 281-287.
- [7]. Almarabeh, T., yousef, R., & Majdalawi, Y. (2015). The university of Jordan e-learning platform: state, students' acceptance and challenges. (Vols. 7, 999- 1007). Journal of Software Engineering and Applications,.
- [8]. Alrawashdeh, T. A., Muhairat, M. I., & Alqatawneh, S. M. (2014). Quantitative Evaluation of ERP Systems Quality Model. In Information Technology: New Generations (ITNG) (pp. 46-49A). IEEE 11th International Conference.
- [9]. [9] Alrawashdeh, T. A., Muhairat, M., & Ahmad, A. (2013). Evaluating the Quality of Software in ERP Systems Using the ISO 9126 Model. International Journal of Ambient Systems and Applications (IJASA), 1-9.
- [10]. Amal, A., Weam, A., & Azrilah, A. (2017). Total Quality Management for Software Development. International Journal of Computer Applications.

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- [11]. Ansar, D., Khalifa, M., & Mohammed, Q. (2018). Information System Evaluation based on Multi Criteria decision Making:comprsion of two sectors. nternational Journal of Advanced Computer Science and Applications(IJACSA), Vol. 9.
- [12]. Baklizi, M., & Alghyaline, S. (2011). Evaluation of E-Learning websites in Jordan universities based on ISO/IEC 9126 standard. IEEE 3rd International Conference (pp. 71-73). IEEE,In Communication Software and Networks (ICCSN).
- [13]. [13] Boehm, B. W., brown, J. R., & Lipw, M. (1976). quality evaluation of software quality. 2nd International Conference on Software Engineering. Proceedings of the 2nd international conference on Software engineering (, (pp. 592-605). Retrieved from
- [14]. Etaati, L., Sadi-Nezhad, S., & Makue, A. (2011). Using fuzzy group analytical network process and ISO 9126 quality model in software selection: A case study in e-learning systems. Journal of Applied Sciences. Journal of Applied Sciences, 11 (1), 96-103. doi:10.3923/jas.2011.96.103 [15] Fleming, I. (2014). ISO 9126 Software Quality Characteristics. Retrieved from www.SQA.net: http://www.sqa.net/iso9126.html.
- [15]. Franco, E. F., Hirama, K., & Carvalho, M. M. (2017, August 26). Applying system dynamics approach in software and information system projects. ScienceDirect Information and Software Technology journal, pp. 58-73.
- [16]. Gade D. (2013). the quality of software. Industrial and Management Systems Engineering -- Dissertations and Student Research.
- [17]. Gürkut, C., & Nat, M. (2018). Important Factors Affecting Student Information System Quality and Satisfaction. EURASIA Journal of Mathematics, Science and Technology Education, ISSN:1305-8223.
- [18]. Indrayani, E. (2013). Management of Academic Information System (AIS) at Higher Education in The City Of Bandung. 13th International Educational Technology Conference (pp. 628-636). ELESIVER.
- [19]. ISO/IEC 9126-1. (2001). Retrieved from Institute of Electrical and Electronics Engineering, Part 1,2,3: Quality Model: http://www.iso.ch
- [20]. ISO/IEC TR, 9126-3. (2003). Software Engineering Product Quality Part3:International Organization for Standardization. Retrieved 2003, from https://www.iso.org/standard/22891.html
- [21]. Komka, J. (2010). Information System of University: Goals and Problems. Daunoravicius Vilnius Gediminas Technical University.
- [22]. Lupu, A. R., Bologa, R., Sabau, G., & Muntean, M. (2008). Integrated Information Systems in Higher Education. WSEAS Transactions on Computers, 7(5), 473-482.
- [23]. Padayachee, i., Paula, K., & Altavan, D. (2010). "ISO 9126 external systems quality characteristics, sub-characteristics and domain specific criteria for evaluating e-Learning systems. university of south africa.
- [24]. Paredes, J. L. (2016). Evaluation of Software Quality Characteristics of Academic Information System Mobile Application. International Journal of Scientific and Research Publications, 6(11).