Development of an Electronic Examination System using a Client Server Model

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Abstract

Examination is a process which is mandatory for assessment and evaluation of performances in any educational setting, ranging from primary to tertiary institution. Infrastructures such as examination halls, exam documents, verification methods and effective grading systems are required to effectively conduct a good exam. This study focuses on the conduct of examination using an electronic approach. This involves the development of an electronic examination system using the Client –Server approach on an intranet environment to cater for questions presented in multiple choice multiple answers and multiple choice single answer. The performance of this approach was performed by implementing the developed application on different localhost operating system such as Linux and Windows using Xampp, Wamp and Lamp. A comparative analysis of data on students score from the paper pencil test(PPT) and the electronic examination system(EES) exam was be performed using the Pearson Coefficient Correlation. Results showed that students’ performance in the computer based test is better than the performances in the paper pencil test.
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References


Index Terms

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Information Systems

Keywords

Examination, Electronic Examination, Paper Pencil Test, Client-Server Approach, Intranet and Students’ performance