SOFTWARE DESIGN AND IMPLEMENTATION FOR NETWORK BASED INTEGRATED ON-LINE EXAMINATION

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Abstract

Nowadays, on-line examinations are widely used in conducting examinations. Generally, that examination is web-based, the exam control is time based.

In this final Project, the design and implementation for online examination system uses three methods of exam: directed examination, semi-directed examination and un-directed examination. Each of these controls has different ability to control the exam.

This final project is done to design and implement a network-based integrated on-line examination based on socket programming using C# .NET 2005 as a programming language. This on-line examination system uses client-server architecture that based on connection oriented model on TCP/IP protocol. It is necessary to design appropriate control message in order to facilitate communication between server and client.

Evaluations have been done to evaluate the performance and functionality of the implemented system. The test results show that the performance of the proposed system is mostly influenced by the number of clients. In overall the implemented system using this approach can be assured that the software can manage on-line examinations in a good performance and stability.

Keywords: socket, client-server, TCP IP Protocol