

SOFTWARE DESIGN AND IMPLEMENTATION OF THE VIRTUAL CLASS BASED ON ONLINE TEACHING SYSTEM

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Abstract

Today, the university lectures or the teachings and presentations in general are done by directly face-to-face communication between the lecture and students in one class or one room that is not separated. As the increasingly fast developing of information technology in the globalization era, lectures or teaching arenas should not be done in one room only. The lectures or teachings and presentations arenas should be done in different places by using several computers, but the lecturer still can communicate to the students.

Those background situation encouraged the writer to build an application service in the form of virtual class based on online teaching system. This system is capable of serving several class(virtual class). Thus the teaching and presentation process can be done in a separate places which is connected in network. One of the applications supporting that technology is socket programming. To support the communication among computer which are using socket, it is needed an open network protocol and it can connect with various software types. One of the protocols supporting the communication among computer is TCP/IP.

Keywords : socket, client-server, TCP IP, Protocol

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