VIRTUAL CLASS APPLICATION WITH TECHNOLOGY
OF WEB-BASED REAL-TIME COMMUNICATION

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Abstract

In e-learning platform, virtual classroom applications which are performed over the network between instructors and students with online interaction are described as advanced tools. Commercial or open-source third-party software as an application of virtual class is usually used in e-learning platform. In this study, a new approach as the mesh-type network topology in the Web-Based Real-Time Communication (WebRTC) technology are investigated for the usage possibilities of being an alternative to traditional virtual classroom application. Also, a prototype application of interactive virtual classroom which is developed by using WebRTC technology is implemented. As a result, experiences of multi-user video conferencing system with the implemented prototype are presented as an alternative for the e-learning platforms.

Keywords: WebRTC, Online Course, Mesh type network topology, E-learning**.**