ABSTRACT

Theme: "Creating a distributed communication system with dynamic control".

Thesis explanatory note: 110 p., 33 fig., 10 tab., 2 appendices, 26 sources.

Actuality: the growing trend in using multimedia communication in the Internet raises the need in creating new communication systems. At the same time, increased speeds of PCs and networks make possible to create distributed communication systems with dynamic control, which effectively distribute load between clients and don't burden servers.

Purpose of work is to create a distributed communication system with dynamic control, which provides distribution of server load among clients and more effective distributions of load among clients.

The object of research is a distributed communication systems with dynamic control.

Software implementation of the server side of application was developed using the Node.js platform in the Atom word processor. Software implementation of the client side was developed using the hypertext markup language HTML, CSS technology and JavaScript programming language in Atom word processor.

The results: Developed a distributed communication system with dynamic control. Tested it in actual. The developed system was compared with existing communication systems.

COMMUNICATION, COMMUNICATION SYSTEMS, MULTIMEDIA, COMPUTER NETWORK, PEER-TO-PEER, INTERNET, NETWORK PROTOCOL, SERVER, CLIENT, NETWORK ADDRESS TRANSLATION SERVERS