Dubouski Maxim Aleksandrovich
Programmer, ByTechSolution Belarus, Minsk, master of technical sciences,
Belarusian state university of informatics and radioelectronics,
senior lecturer, teacher of department information systems and networks, master of engineering
Belarus, Minsk
Vysotskaya Alesya Eduardovna
student of Belarusian state university of informatics and radioelectronics
Belarus, Minsk
Krasner Yauheni Lvovich
student of Belarusian state university of informatics and radioelectronics
Belarus, Minsk
Bakunova Oksana Mihaylovna
researcher of technical sciences, master of technical sciences,
Belarusian state university of informatics and radioelectronics,
senior lecturer, teacher of department information systems and networks, master of engineering
Belarus, Minsk
Abraztsova Volha Mikalaeuna
Candidate of Technical Sciences, associate professor
Belarusian state university of informatics and radioelectronics
senior lecturer, teacher of department information systems and networks, master of engineering
Belarus, Minsk
Khmialeuskaya Alina Leanidauna
Belarusian state university of informatics and radioelectronics
teacher of department information systems and networks, master of engineering
Belarus, Minsk
Kryzhanovskaya Julia Andreevna
Belarusian state university of informatics and radioelectronics
teacher of department information systems and networks, master of engineering
Belarus, Minsk

SOFTWARE MONITORING SYSTEM OF BANKING DEVICES OF SELF-SERVICE: ENGINEERING-PSYCHOLOGICAL APPROACH TO DEVELOPMENT OF THE SYSTEM

Information technology is an innovative developing space that is not limited to territorial boundaries and is becoming increasingly global in scope. It actively provides solutions for the tasks of both the townsfolk and entire sectors of the industry, being one of the most important factors that have a strong influence on reality.

In recent decades, thanks to the rapid development of information technologies, the world community has entered an era of the formation of a new information space, which is being created on the basis of computerization and network telecommunications. This objective phenomenon of modern reality is accompanied by an increase in the volume of socially significant information used in the management systems of organizational systems in order to rationalize their activities, the information accumulated in the development of society becomes a source of time and social labor savings, i.e. powerful factor in accelerating social development. The level of information management processes has become one of the most important indicators of socio-economic progress achieved by the state and a separate organization. On the qualitative side, an increase in the amount of information used in solving the tasks of managing organizations leads to the rationalization of human labor and an increase in welfare. Under the influence of the described processes, a group of people has already formed in human society, for whom working with information has become the main professional activity. Information technologies are used in many fields of human activity, including the management system. But even in one area, information technology can have several types and uses.

An automated monitoring system for bank devices has been developed based on database management system technologies. The main functions of this system include protection from unauthorized logging into the system, working in network and offline modes, receiving information on devices in real time, generating reports on the basis of payments made, receiving logs from devices.

The software operates in the environment of the Windows operating system, works in the environment of terminal applications. The software product is equipped with a fault-tolerant system, protected from unauthorized access, an intuitive interface and an interactive guide that helps the user to deal with the peculiarities of working with the program.

The automated system is implemented along with the system of terminal applications: the user at the workplace does not have a full-fledged personal computer, but only a terminal client (thin client), which is connected to the terminal server through a set of software and hardware, where the software product is launched. This method allows you to improve the protection of the database and the program itself from unauthorized access, simplify the administration of the workflow, speed up work with the database, since the local area network (LAN) will not be loaded with multiple requests and responses when working with the database, but only transmit data RDP (Remote Desktop Protocol) Packages. The fault tolerance of the system as a whole also increases: the option of an automated system failure is minimized when a workstation or a LAN fails, in the case of a terminal application, only the current session disconnects, without incorrectly exiting the application. The costs for the power supply of workstations are also reduced: thin clients consume significantly less electricity, and the costs of creating new jobs are reduced: the cost of the terminal client is lower and it does not require the installation of powerful uninterruptible power supplies.