

Thesis on the topic: «The organization of the protection of medical electronic cards of patients based on blockchain technology using cryptographic methods on the example of the sanatorium «Zori Stavropol», Pyatigorsk.»

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Details on the organization: Voluntary Association sanatorium «Zori Stavropolya»

Relevance of the research topic: medical electronic patient cards need reliable protection, since they contain confidential data of the patient himself. The use of blockchain technology will provide a high level of protection of personal data of patients recorded in electronic cards, thanks to the cryptography methods on which the blockchain technology is based.

Goal of the thesis: to organize the protection of medical electronic patient cards based on blockchain technologies.

Objectives: study of the principle of operation of the blockchain technology; development of a new model for building a corporate blockchain network.

Theoretical and practical significance: The theoretical significance of the final qualifying work is to analyze the blockchain technologies and their application in various industries. The practical significance is to develop a model for building a corporate blockchain network, which will solve a number of problems related to information leaks, with a violation of the integrity and confidentiality of the patient's medical data.

Research results: after the analysis, the technology used in other sectors of the blockchain was reviewed and analyzed, and a new algorithmic model for building a corporate blockchain network was developed.

Recommendations: to improve the security of personal data of patients recorded in medical electronic cards, it is recommended to consider blockchain technology with the developed blockchain-network building model.