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NATIONAL PLATFORM FOR DIGITAL BIOMETRIC SYSTEM

Зейтенгазин А.Р. (Kazakh-British Technical University), **Кыздарбек А.С.** (Kazakh-British Technical University)
Научный руководитель – профессор (доцент) Скублин В.А.
(Kazakh-British Technical University)

Currently, the topic of creating the National Platform for Digital Biometric Identification in each country increasingly becomes crucial. It is because providing any service whether it is financial or governmental services remotely to people is necessary to society and for technological development as well. Most of the countries around the world as India, Estonia, England, Russia, and others more have been already implementing this system to move from paper ID documents to Biometric identification by human biometric modalities, as a result creating great comfortability to humankind. The topic is so important for Kazakhstan where this system exists partially. Therefore, this paper will analyze the current system of Kazakhstan and will compare it to international benchmarks, and eventually present its platform for future biometric systems.

Введение. Nowadays most of the countries around the world go into biometric identification of people instead of paper-based documents. It is because the information system for biometric identification allows to remotely provide people with any services, such as financial, governmental, medical, educational, and any other. Therefore, the aim of the paper is:

— Research and analyze existing biometric identification systems in Kazakhstan and other countries (benchmarking);

— Developing National Platform of Biometric System by adapting current and creating future architecture and business processes;

— Selection of appropriate software and hardware equipment for proposed (future) system;

— Calculation of total cost for technical equipment and employee for developing the proposed system.

It is from vividly seen from the goals the relevance of the topic where it is Developing in Kazakhstan the NPDBS is so crucial as people need the convenient and secure provision of any services (financial, public, commercial, etc.). Also, by creating this platform people can receive any services remotely and without carrying any paper document. Their digital profile will be only a unique and official identification source.

Основная часть. The proposed platform will increase the availability, security, time productivity, and technological advances of Kazakhstan.

Related to the aims the statement of the research work is formulated as follows: it is necessary to develop the National Platform of Biometric Digital System by analyzing the currently existing systems and adopting it to proposed future architecture, business processes, and costs for technical equipment. Overall, currently in Kazakhstan there exist 4 systems that are identify or store systems the biometric samples of citizens such as KISC, IS "Berkut", Digital ID, and IS "AIS BIP". There are all working well, but there are no relation and integration between them.

Выводы. Therefore, this research work will show in first part the "Analysis of existing system" where the existing information systems will be analyzed by technological map and SWOT analysis, and after international benchmarks will be presented. In second part, the architecture and business-processes of proposed National Digital Biometric Platform will be implemented. Eventually, in third part, it is in generally technical specification where the peripheral devices, server equipment, licensed software and employee analyses are developed. Two other parts are economic and Human safety parts where the calculations and programs for human safety occupation are said.

Зейтенгазин А.Р. (автор)   Подпись

Кыздарбек А.С. (автор)   Подпись

Скублин В.А. (научный руководитель)   Подпись