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AUTOMATED MANAGEMENT SYSTEMS FOR THE DEVELOPMENT OF A MODERN INFORMATION AND EDUCATIONAL ENVIRONMENT

Automated education management systems are implemented in general secondary education institutions. This allows you to significantly simplify the day-to-day management of the educational process and solve standard tasks related to the formation of the class schedule, internal and external reporting, the development and use of testing systems and subject programs, and performance records. Each automated education management system has a mandatory basic set of functions, including tracking the movement of students from the admission of students to the educational institution to the expulsion, accounting of the personnel of the educational institution, reporting to the state education authorities according to established forms, organization of school meals, keeping electronic journals and diaries, development of a testing system and registration of test results, management of Internet access, etc. On December 2, 2021, the Cabinet of Ministers of Ukraine approved by Resolution No. 1255 the Regulations on the software and hardware complex "Automated Information Complex of Educational Management" (AICOM) [1]. This project will enable the introduction of electronic document management in schools, the program module of the state electronic class journal and diary is already working on the basis of AIKOM.

The Regulation on the software and hardware complex "Automated information complex of educational management" provides a definition of the concept of third-party electronic educational information systems — these are information and telecommunication systems designed to automate the management of an educational institution in the fields of preschool, general secondary, extracurricular, professional (vocational and technical) education, creation, processing, exchange of information and documents in electronic form, in particular with the central database of the automated management complex.

For the needs of the education management body and educational institutions, the additional functionality "Form Designer" was developed, which allows you to create any internal reports (number of computer support, passport of educational institutions, etc.) and automatically receive information from institutions in electronic form. Portal "ISUO. Ukraine" has

a clear structure built on the principle of subordination adopted in the state: the Ministry of Education and Science of Ukraine; regional departments/management of education; district and city departments/departments of education; general education institutions.

15,179 preschool education institutions, 15,336 general secondary education institutions, and 2,175 education management bodies are connected to the system. Components of the system: New knowledge (electronic class journals and diaries); Electronic registration in preschool education institutions; Electronic certification of teaching staff; Electronic registration in institutions of general secondary education; Electronic dean's office.

State information system of education ITS "DISO" is a structured, logically complete organizational and technological complex of server, software and automated systems, interfaces for connecting computer programs with databases, interconnected in a single process of managing educational structures of all levels of subordination - from general educational institutions to education management bodies [2]. DISO provides such functionality as: data transfer, automation of the formation of mandatory state statistical reporting and other administrative and management processes at the level of education management bodies and their further transfer. The main tasks of ITS DISO are: the optimization of reporting, including statistical reporting, in the field of general secondary education; collection, processing, formation, storage of information, including statistical information, in the field of general secondary education; creation and functioning of the register of general education institutions; collection, processing, formation, storage of other information in the field of general secondary education; carrying out an analysis of the quantitative and qualitative composition of education seekers, pedagogical workers in the field of general secondary education, forecasting and development of management decisions in accordance with the state priorities of education reform.

E-Journal. Starting from December 2020, E-Journal is a free state service of electronic journals based on the software and hardware complex "Automated Information Complex of Educational Management" available for implementation and use in schools. The resource was created by the Ministry of Education and Science of Ukraine and the State Scientific Institution "Institute of Educational Analytics", which was put into experimental use by the order of the Ministry of Education and Science of Ukraine of December 22, 2020 No. 1545 [3]. The decision on its use is made by the Ministry of Education and Science of Ukraine on a voluntary basis. The advantages of introducing an electronic journal for various groups of

participants in the educational process are: the possibility to quickly prepare educational reports, success charts by classes and subjects; analysis of the effectiveness of teachers' work; attendance record; the ability to monitor the dynamics of students', classes' and school's success; increasing the rating of the educational institution etc. For teachers, the automated system allows the following: relief from excessive paper work; easy access to the current schedule on a smartphone or computer; the ability to download educational materials for familiarization and help in preparing homework; saving time for preparing for lessons; convenient division of classes into groups without paper journals; simple automatic generation of complex reports based on the results of the semester or academic year; effective communication with students and parents.

Therefore, modern automated education management systems at various levels should be informational and analytical in nature, provide informational support for decision-making in all areas of the educational institution's activities, be built on the principles of complexity, openness, scalability, safety, and reliability.

References:

1. Resolution No. 1255 of December 2, 2021 On the approval of the Regulation on the software and hardware complex "Automated information complex of educational management". Cabinet of Ministers of Ukraine. 2021. URL: <https://www.kmu.gov.ua/npas/pro-zatverdzhennya-polozhennya-pro-programno-apatnij-kompleks-avtomatizovaniy-informacijnij-kompleks-osvitnogo-menedzhmentu-i021221-1255> (date of application: 01.10.2023)
2. State information system of education ITS "DISO". URL: <https://diso.gov.ua/> (date of application: 01.10.2023)
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NECESSARY REGULATIONS FOR PROMOTION OF DIGITAL ENTREPRENEURSHIP IN AFRICA

Digital entrepreneurship can be described as the interaction between digital technologies and entrepreneurship and addresses the creation and scaling of digital ventures, whose business model is based on generating value through electronic information via data networks [1].