

## **Problems of development customer schedule institutions of higher education**

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The importance and necessity of introducing modern technologies into the field of education is indicated in a number of normative documents. Today, the managerial decision in education is based on the latest technical and technological developments and the unique features of the educational systems of each country. Innovation management acquires further development, the essence of which is to provide conditions for making systemic changes in the activities of educational institutions, aimed at their development and improvement of work. Changes in the control system's functions are a prerequisite for the transition to modernization of information systems. The transition to the innovative methodology is a logical stage in the development of the institution of higher professional education of the country.

The article analyzes the use of the program created to improve the efficiency of the automation of the provision of educational services, namely, a client-timetable for teaching students of institutions of higher education was developed. In accordance with the goal, ways to improve the existing information support of the quality management system for educational services are defined; given to each user information on the schedule of classes, without the need for personal visits to the dean's office or other physical places; a software was created that automates the day-to-day activities of the subjects of the educational process and makes

it possible to receive up-to-date information on the educational process conveniently and in a timely manner. The timetable itself was generated using a certain algorithm. To formulate a target function, it is necessary to take into account many factors that determine the assessment of the schedule as effective, valid and optimal in terms of the educational process. There is a problem of automation of the management system of higher educational institutions. In particular, an electronic timetable, an electronic journal. It was decided to develop its own mobile application, which addresses the issue of electronic scheduling, taking into account the elimination of the identified shortcomings. The mobile app includes a graphical configuration interface and a brief documentation. For user convenience, two graphical interfaces were developed. The most advanced tools and technologies used to create a mobile application were used.

The algorithm generates a schedule that is guaranteed to meet stringent requirements. No physical conditions, or logical, are violated during generation. The application is used to facilitate and increase the mobility of the user by providing information on the scheduling of occupations. The developed information system contains: the model of the system itself; algorithm of its work; support both Android platform and iOS; created circuit data system; flexible and intuitive user interface, with the ability to select several parts of the design.