

# Online service "sportreserve" as an effective resource for monitoring the physical fitness of students

UDC 796.015:004.4



PhD, Associate Professor **A.V. Fursov**<sup>1</sup>  
Dr. Hab., Professor **N.I. Sinyavsky**<sup>1</sup>  
<sup>1</sup>Surgut State Pedagogical University, Surgut

Corresponding author: fursovav@bk.ru

## Abstract

**Objective of the study** was to identify the functionality of the online service of the automated information system (AIS) "Sportreserve" in working with the sports reserve, selection and support of the most gifted children at the stages of sports training.

**Methods and structure of the study.** The tools for developing a software service were defined as the most universal cross-platform PHP Storm IDE solutions designed for writing interface programming text and implementing a database management system. More than 50,000 students from budgetary educational institutions of the city of Surgut were involved in testing the online service of the AIS "Sportreserve".

**Results and conclusions.** The AIS "Sportreserve" has automated the main algorithms, as well as created directories for recording the data of students passing the standards of the GTO complex at all stages of sports training with uploading an individual electronic passport of an athlete and relevant analytical data.

The program provides the following functions: automated recording of data on sports activities of athletes; generation of individual reports, creation of databases by sections of the athlete's digital passport.

**Keywords:** digitalization, GTO complex, physical fitness monitoring, online service, AIS "Sportreserve".

**Introduction.** To date, the implementation of scientific research and the introduction of new developments, taking into account the segments of the Sport-Net market and the Strategy for the Development of Physical Culture and Sports in the Russian Federation, updates the agenda for improving the mechanisms for information support of activities in the field of physical culture and sports, introducing modern online services for preparing a sports reserve, attracting the largest number of the population to regular physical culture and sports, the implementation of a unified statistical reporting. The digital transformation of physical culture and sports means not only the development and implementation of technical solutions, but also a huge amount of related work: conducting scientific research, eliminating legal barriers, training and developing user competencies [2].

An analysis of industry scientific and theoretical journals in the field of physical culture and sports

showed an increased interest of the scientific community in research on IT development, as well as the introduction of scientific and experimental developments that ensure the preparation of a sports reserve, automated data processing of basic health indicators and monitoring the physical fitness of students [1, 3-6].

**Objective of the study** was to identify the functionality of the online service of the automated information system (AIS) "Sportreserve" in working with the sports reserve, selection and support of the most gifted children at the stages of sports training.

**Methods and structure of the study.** The purpose of the AIS "Sportreserve" is to search for gifted children for selection in groups of sports sections. The tools for developing a software service were defined as the most universal cross-platform PHP Storm IDE solutions designed for writing interface program text and implementing a database management system. More than 50,000 students from budgetary educa-



tional institutions of the city of Surgut were involved in testing the online service of the AIS "Sportreserve".

#### Results of the study and their discussion.

The design of the AIS Sportreserve online service included three main stages:

- development of the concept and terms of reference, a module for analyzing data on the physical fitness of children for programming the main functions, a digital analytical service for searching and accompanying gifted children to form a sports reserve in the Ugra region;

- creation of a user's personal account on the site <https://rosinwebc.ru/>, through which it was possible for specialists to carry out search access to a database containing information on indicators of children's physical fitness and formed using the "AS FGC GTO" service. Also, the functions of analysis and data processing were adjusted according to the specified parameters to identify gifted children;

- integration of the online service "Sportreserve" with the "AS FGC GTO", which contains data on the conditional profile of the development of the main physical qualities of children, taking into account the results of fulfilling the standards of the GTO Complex.

The AIS "Sportreserve" has automated the main algorithms, as well as created directories for recording data at all stages of sports training with uploading an athlete's individual electronic passport and relevant analytical data. The online service allows you to support the sports reserve, as well as provide data for making important decisions aimed at developing the success of each talented child, and identifying breakthrough points for the development of their future sports career, demonstrating high sports results.

**Conclusions.** The online service AIS "Sportreserve" can be used in scientific, organizational and sports-methodical work of physical culture and sports organizations in working with a sports reserve, selection and support of gifted children at the stages of sports training. The program provides the following functions: automated recording of data on sports activities of athletes; generation of individual reports, creation of databases by sections of the athlete's digital passport.

#### References

1. Bazova M.B., Kudinova Yu.V, Surkova D.R. et al. K voprosu o sozdanii ekonomicheskoy infrastruktury sporta s pomoshch'yu identifikacii sistemnyh cifrovyyh resursov [On the issue of creating an economic infrastructure for sports using the identification of systemic digital resources]. Uchenye zapiski universiteta im. P.F. Lesgafta. 2021. No. 8 (198). pp. 12-16.
2. Lubysheva L.I. Cifrovaya transformaciya korporativnogo sporta [Digital transformation of corporate sports]. Teoriya i praktika fiz. kultury. 2020. No. 12. p. 101.
3. Ozerova O.A., Lubysheva L.I. Tekhnologicheskie i didakticheskie aspekty primeneniya cifrovyyh tekhnologij v usloviyah distancionnogo obucheniya po fizicheskomu vospitaniyu studentov [Technological and didactic aspects of the use of digital technologies in the conditions of distance learning in the physical education of students]. Fizicheskaya kultura: vospitanie, obrazovanie, trenirovka. 2021. No. 4. pp. 41-44.
4. Petrov P.K. Cifrovye informacionnye tekhnologii kak novyj etap v razvitii fizkulturnogo obrazovaniya i sfery fizicheskoy kultury i sporta [Digital information technologies as a new stage in the development of physical education and the sphere of physical culture and sports]. Sovremennye problemy nauki i obrazovaniya. 2020. No. 3. p. 86.
5. Shmeleva E.A., Kislyakov P.A., Konstantinova N.P. et al. Cifrovye tekhnologii organizacii fizicheskoy aktivnosti obuchayushchihsya v usloviyah udalennyh obrazovatelnyh kommunikacij v period pandemii Covid-19 [Digital technologies for organizing physical activity of students in the context of remote educational communications during the Covid-19 pandemic]. Teoriya i praktika fiz. kultury. 2021. No. 6. pp. 58-60.
6. Shutova T.N., Andryushchenko L.B., Orlan I.V. et al. Cifrovoy podhod v organizacii fizicheskoy kul'tury i sporta v vuze [Digital approach to the organization of physical culture and sports at the university]. Teoriya i praktika fiz. kultury. 2021. No. 3. pp. 12-14.