

RESEARCH ARTICLE

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FORMATION OF PROFESSIONAL SKILLS AND PROFESSIONAL INFORMATION TECHNOLOGIES IN STUDENTS OF GENERAL SECONDARY SCHOOLS

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Abstract

In this article, today's general secondary education schools highlight the work carried out to determine the interests of students, guide them to the profession, the achieved results, the existing problems and the tasks to be performed. In the course of the research, the experiences of Great Britain and Russia were studied in determining students' interests and directing them to the profession. Based on the results of study and analysis, it was proposed to create a new electronic system suitable for Uzbekistan - "Individual diagnosis system". Systematic monitoring of determining students' interests and directing them to the profession is indicated through the system. The results that can be achieved when launching this platform are also fully specified.

Keywords General secondary school, career guidance, platform, diagnosis, labor market.

INTRODUCTION

Today, more than 6.2 million students are receiving education in 10,104 general secondary schools in our country. More than 2.5 million of them study in primary grades, 3.7 million in grades 5-11. Every year, on average, 400-500 thousand students complete the 11th grade of general education schools and start an independent life. Preparing them for life, giving them the necessary skills to find their place in life is the most important task facing not only the education system, but also all other areas responsible for the development of society.

Research aimed at improving the technology of guiding students to a profession is carried out by international and national scientists: Noel

Mwenda, Sh.S.Sharipov, B.S.Volkov, N.S.Pryajnikov, V.A.Mansurov, O.V.Yurchenko, S.N Chistyakova, E.V.Gudkova, A.S.Skutin, R.G.Isyanov, S.B.Umarov, P.Q.Kholmatov, D.M.Anvarova, P.S.Ergashev, A.A.Khasanov carried out by Research aimed at studying the regional features of purposeful guidance of students to the profession and the influence of socio-economic factors V.A. Orlov, P.F. Anisimov, O.A. Khaidarov, G.F. Shafranov-Kutsev, S.N. Tolstoguzov, Q Conducted by Kh.

Decision No. PQ-5140 of the President of the Republic of Uzbekistan dated June 8, 2021 "On measures to further improve the system of personnel training for working professions", on approval of the President of the Republic of

Uzbekistan dated May 11, 2022 "National program for the development of public education in 2022-2026 General secondary education in accordance with paragraphs 22-23 of Appendix 1 of Decree No. PF-134, paragraphs 7 of Decision No. PQ-241 of the President of the Republic of Uzbekistan dated May 11, 2022 "On additional measures for the development of public education" determining future professions for students of the graduating class of schools based on their interests and abilities, providing information on current professions in the country, systematic organization of vocational diagnosis through psychological tests and the decision of the Cabinet of Ministers of the Republic of Uzbekistan on December 30, 2021 "10-11th grade of general secondary educational institutions This research work serves to a certain extent in the implementation of the tasks defined in the Decision No. 792 on the measures to prepare the students of classes for professions and other regulatory legal documents related to this field.

The main goal of this research is to create a modern online platform for career guidance based on an individual approach to students of general secondary schools by identifying their interests. Through the platform, students' temperament, intellectual, emotional development, talent, and interests are studied, recommend suitable professions for them, provide information about these professions, and organize online training courses on teaching modern professions.

The main part.

Today, about 20 percent of the world's population is made up of young people. In Uzbekistan, this indicator is more than 60 percent. The population of our country is increasing day by day. In 2022, our population reached 35 million (35,271,300 people as of May 31, 2022). 31.1% of the permanent population is below working age, 58.0% is working age, 10.9% is older than working

age. According to the results of the study conducted by the United Nations in 2020, Uzbekistan ranks 71st among 189 countries of the world according to the education index. Among neighboring countries, it ranks higher than Tajikistan (96th place), Turkmenistan (111th place), and Afghanistan (170th place), but it is slightly behind the countries of Kyrgyzstan (70th place) and Kazakhstan (35th place).

Experiences of prestigious, advanced countries were studied and their work was analyzed on the electronic platform "Individual diagnosis system" (kasb.maktab.uz), created as a result of the research, aimed at identifying the interests and abilities of students, and helping them to become suitable profession holders in the future. According to the results of the study and analysis, special attention was paid to the development of new innovative solutions for determining the interests of students, directing them to the profession, and preparing them for life in the future through the new system. (Figure 1)

In the system created as a result of research, the following were taken as priorities:

- to determine the interest and abilities of students in the profession;
- vocational orientation of general secondary school students;
- helping school graduates to choose their future profession;
- creation of a database of current professions in our country and around the world for students of the graduating class;
- monitoring of students' intellectual development and emotional state;
- to determine the social activity of students (level of propensity to crime, risk of suicide, violence and harassment);
- providing quick online psychological support to

teachers and students;

- integration of a single career-oriented electronic platform with existing platforms, creation of a window of statistical data and continuous monitoring;

to create a foundation for the student to become a

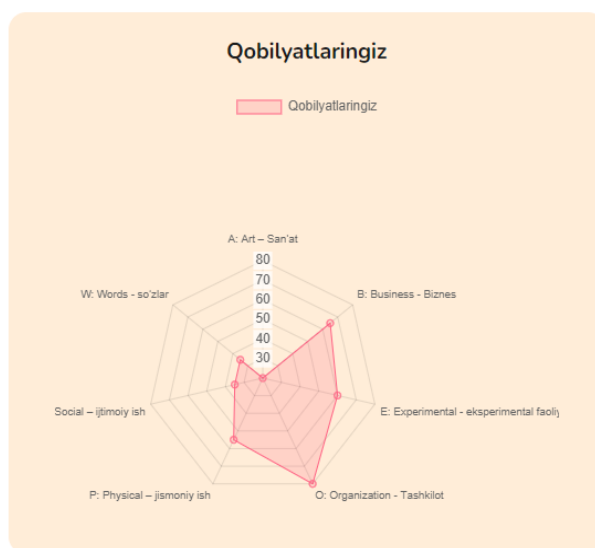
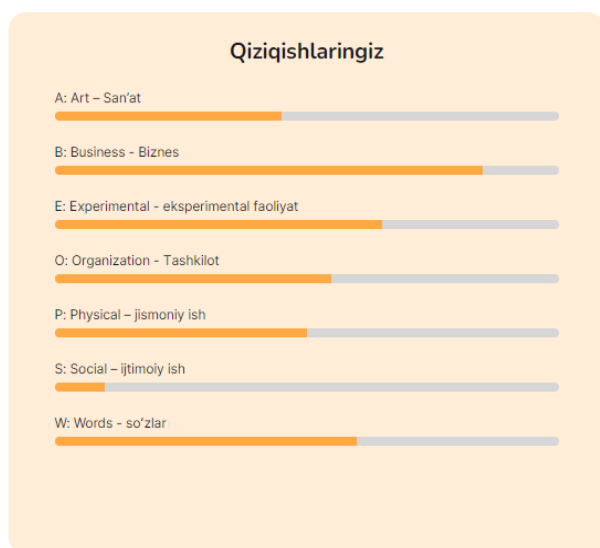
mature specialist in the future and for the formation of relevant social and professional qualities in him. (Fig. 2)

In the process of using the platform, it is necessary to carry out the following

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tasks in cooperation with general secondary schools, parents who are directly responsible for raising children, and the general public who are indirectly responsible:

- Orientation of students of general secondary educational institutions to the profession by conducting psychological and IQ-tests;

- Acquaint students of the graduating class with information about current professions ("Professions Atlas") in our country and around the world;

- Systematization and monitoring of information on career orientation of students of general

secondary educational institutions throughout the Republic;

- Nurturing mature individuals by directing them to appropriate peer or online learning resources based on their professional interests and abilities. (Figure 3)

It is necessary to pay special attention to 4 main components in the organization of vocational guidance of students.

1. To give students an understanding of modern professions.

2. A test to determine students' interests, abilities and professional inclinations.

3. Providing information about the labor market.

4. Practical activities on career orientation (excursion, meetings with industry experts, etc.).

In order to provide students with an understanding of modern professions, 302 topics related to professions are included in the textbooks being created for grades 1-11 within the framework of the National Curriculum for 18 general education subjects held in general secondary schools..

The unique platform "Individual diagnosis system" (kasb.maktab.uz) that we are talking about today was created to determine students' interests, abilities, and career inclinations, and to provide information about the labor market.

In October-December of the 2022-2023 academic year, a survey was conducted to determine the career interests and post-educational activities of 9-11th grade students of all secondary schools in the republic.

554,000 9th graders and 385,000 11th graders took part in the survey.

9th grade. 76% of students (423 thousand) expressed their desire to study at school, 14% (73 thousand) at vocational schools, 10% (58 thousand) at academic lyceums.

11th grade. 86% (331 thousand people) of the graduates expressed their desire to go to a higher education institution, 9% (33 thousand people) to study in colleges and technical schools, and 5% (21 thousand people) to work. 27% of the graduates (89 thousand people) education, 12% (39 thousand people) healthcare, 11% (37 thousand people) ICT, 11% (37 thousand people) economy, 10% (33 thousand people) entrepreneurship,

9% (30 thousand people) expressed their desire to study in social humanitarian, 6% (21 thousand people) construction, 14% (45 thousand people) agriculture, service, art and other fields.

In order to get to know the work of professions and specialists, meetings with experts in the field and field trips were organized for students, and during 2022, about 34 thousand excursions were organized for students of the 9th-11th grades to enterprises and organizations in the field of production, service and agrotechnology.

In order to further increase the interest of the graduating students of general education schools in the profession, 270 professional educational institutions of our republic held the "Profession and Youth" open communication month, and 404,989 students were involved in it.

Here, in the process of conducting this research, the experiences of several advanced countries of the world were studied. In developed countries, the development of free career guidance platforms and sites to guide schoolchildren to a profession is an urgent task.

In particular, the experience of the Russian Federation, which is close to Uzbekistan in terms of the forms of education management, shows that there are free career guidance platforms and sites for providing employment to schoolchildren, directing them to a profession at the level of their interest, and providing information about currently available and high-demand professions, where schoolchildren can directly communicate with the owners of enterprises and companies, employers and check their knowledge and professional competence by answering the questions and cases presented by them online.

Germany is one of the leading countries in the world in terms of vocational education. Almost half of the population has at least one profession.

Vocational guidance in German schools is based on introducing students to various professions and types of work, helping them choose a future specialty according to their inclinations and abilities. Vocational orientation is carried out

among students through tests, surveys, organization of excursions to enterprises, interviews with representatives of various professions and joint activities with parents.

During career orientation, the practice of keeping a "Workbook" among students is introduced, in which the student writes down general information about his family, personal interests, dreams, and professional interests. The student's academic performance, test results, and information in the "Workbook" serve as the basis for career guidance.

In Great Britain, the Gatsby trust fund studied the vocational projects and initiatives of 6 developed countries (Netherlands, Germany, Hong Kong, Finland, Canada and Ireland) and developed the main principles that are important for the British people and show effective results. According to him, the only career guidance program for UK students has been developed, the program includes information about today's current professions, psychological tests, meetings with employers and heads of higher education institutions, communication with employers and tasks related to their chosen profession in real mode. makes it possible to choose the right profession.

There are 8 main criteria for referral to a systematic career in the UK, which are as follows:

1. A single, clear and stable career guidance program. Each school and college in the region develops and implements its own program of vocational guidance and vocational education. Students, parents, teachers, governors, employers should know and understand the program. The educational institution itself plays the biggest role in the formation of the program, because the school better understands the needs of its students.

2. Current information about the labor market.

Every student and their parents have access to high-quality information about future learning opportunities and labor market opportunities. In order to gain knowledge about modern occupations and job vacancies and to effectively use them, the student receives this information from an expert adviser who has access to a specialized career guidance Internet resource.

3. Meeting personal needs. Each student has different needs for career guidance, depending on their age and individual qualities. Recruiting is supported, tailored to everyone. The program embraces equality and diversity while being accessible to all.

4. The relationship between education and future professional activity. Every subject teacher can clearly show students the prospects of learning and its benefits for future careers. For example, mathematics teachers provide information about the various specializations in which subject knowledge would be useful in the classroom. Students are given insights into the necessity of mathematics for analytical, economics, linguistics, sociology, IT and other fields specialists, as well as in everyday life.

5. Meetings with employees of employers and enterprises. Each student receives professional skills and knowledge about work directly from experts. In the training program, time is allocated for excursions to enterprises, lectures by experts and other activities that expand the idea of professions, such as developing projects or working with a mentor.

6. Professional practice-workplace experience. Each student receives direct work experience in the workplace. To help determine his professional destiny, the school or college gives the student the opportunity to work in the chosen organization or observe the work for a sufficiently long time. Thus, the student not only tries the profession in practice, but also learns the possibilities of

building a profession in this direction and makes professional acquaintances.

7. Meetings with representatives of vocational and higher educational institutions. It is important for students to understand not only career but also educational opportunities. They will have information that is interesting to them about academic education, vocational schools, colleges, universities, advanced training, additional courses, that is, interesting professions.

8. Regular career guidance. The student has the option to speak with a professional counselor (school or third-party expert). The opportunity to talk with an advisor is especially important when choosing a field of study. Communication with a professional counselor is open to all students, the specialist devotes time to each child separately.

Great Britain has accumulated many years of experience in the rational use of labor resources. In educational institutions, the main work on guiding students to the profession was carried out by professional consultants.

Exactly, the system that we offer is created in electronic form as an analogue of the "Workbook" established in Germany, having studied the experience of these countries.

It is planned to create a mobile application for the purpose of further development of a single electronic platform aimed at identifying the interests and abilities of students, and helping them to become worthy professions in the future, taking into account the growing up of children of the new generation with gadgets. Summary. In conclusion, it can be said that as a result of the research, by creating a platform, schoolchildren can spend their time effectively, help students acquire additional knowledge and skills, guide them to a profession based on their knowledge and potential, eliminate crime and bullying among secondary school students, and guide school

graduates to modern professions. is achieved. Including:

- using this platform, graduates will have complete information on all professions;
- students' outlook on the world, as well as professional knowledge and skills, increase their potential in choosing a profession;
- it is possible to determine students' interests and abilities, mental and family situation with the help of special tests;
- a base of educational courses will be formed in the direction of modern professions;
- monitoring of information about students is carried out in the classroom;
- in order to reflect the student's results in all subjects, integration with the electronic systems for evaluating the knowledge of secondary school students (kundalik.com) and school management (erp.maktab.uz) is provided.

The important effectiveness of the research is to combine activities related to the identification of professional interests and abilities of students of general secondary schools in the country on a single platform, to monitor the results and to assist in making decisions based on them for the further development of the educational system.

The social indicator of the study is the growth of self-confidence, status and experience of students by guiding them according to their interests and achieving early financial independence. To develop and motivate healthy competition among students by conducting various forums and competitions on the portal. In addition, in order to reduce the number of criminals and immoral persons in our society, it will be achieved to increase the employment of young people.

The most important thing is to reduce unemployment and poverty rates in the country by helping graduates to determine their future

profession. An opportunity will be created for our young people to work remotely and earn a good income, regardless of where they live. As a result, the competition in the labor market will become stronger, and the development of the personnel will contribute to the development of the country.

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