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Research Article

USING DIGITAL SOFTWARE TOOLS FOR ASSESSING STUDENT KNOWLEDGE (The Example of MyTextX Software)

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ABSTRACT

This article analyzes the advantages and possibilities of using computer-based test software tools to assess students' knowledge in the education system. The MyTextX software is recommended for creating non-standard, interactive electronic tests. Additionally, the installation of the MyTextX software and the stages of preparing tests of various types are described in detail.

KEYWORDS

Electronic educational resources, non-standard test, interactive test, My Text X software, My Test Editor, My Test Server, My Test Student modules, MCQ, pedagogical technology.

INTRODUCTION

Today's modern education system cannot be imagined without modern textbooks, electronic textbooks, educational-methodological electronic manuals, electronic dictionaries, and distance learning. A concept was developed to further improve and advance the higher and secondary specialized, vocational education system of Uzbekistan through the creation of a new generation of educational literature.

Therefore, in order to implement the above-mentioned concept, it is essential for every teacher to continuously develop their knowledge related to ICT. It is well known that every subject teacher wants to assess their students quickly, qualitatively, fairly, and automatically, and then organize the next lessons based on the assessment results. This process can be done using traditional methods, such as calling students to the board to ask questions about the previous topic while others fill in the gaps, recording grades in the gradebook, and so on. This is an effective

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method, but if you have a large number of students, it can be very time-consuming. In such cases, the My Text X program, a computer-based test software, helps to quickly check students' knowledge.

My Test is a system of programs for creating and conducting computer tests, collecting and analyzing results, and grading based on the scale provided in the test (includes a test program for students, a test editor, and a results log). The program is easy and convenient to use.

If the program is available in the computer room, you can install it on all computers. This test program conducts computer-based tests, checks the test results, assigns grades to students, and generates a diagram of the test results. You can create test databases very conveniently and edit them within the program. As you gain more experience using the program, you will gain more confidence in its utility.

Steps to Install the My Text X Program

You can easily download the installation package of the My Text X program for free from the internet. Additionally, you can update the program to the latest versions from the internet as well.

Installation Procedure:

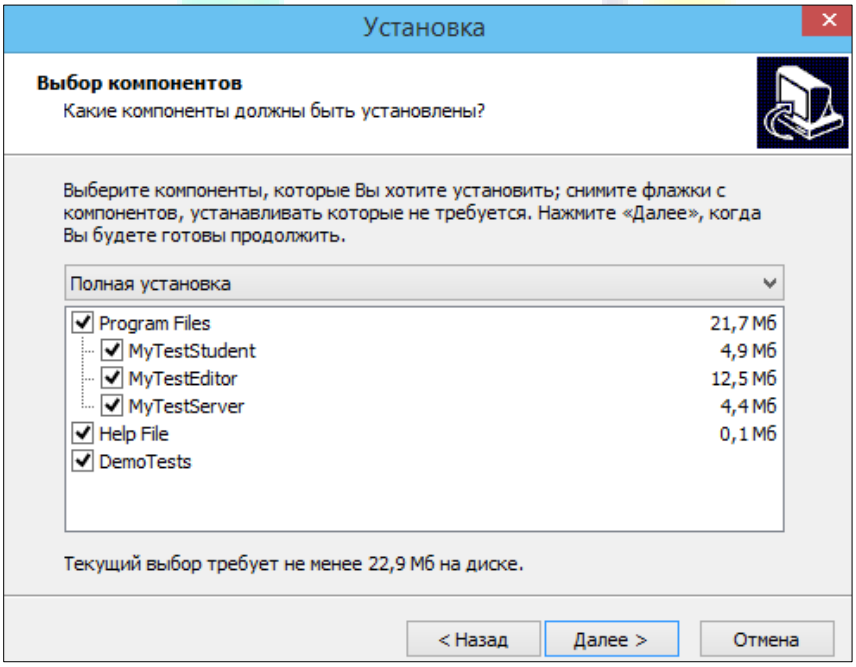

Figure 1. "Installation" Window

"Next" (Figure 1).

CURRENT RESEARCH JOURNAL OF PEDAGOGICS
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OCLC – 1242041055
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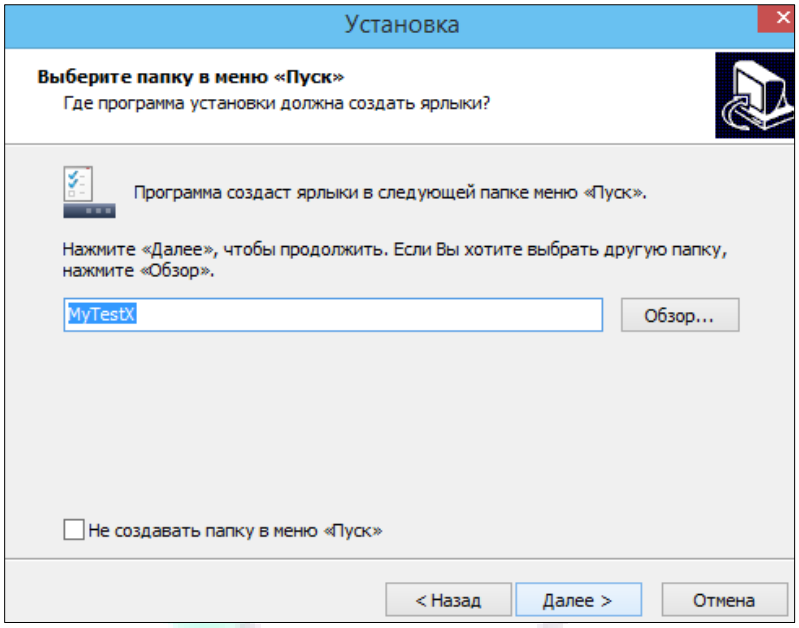

Figure 2. "Installation" Window

"Next" (Figure 2).

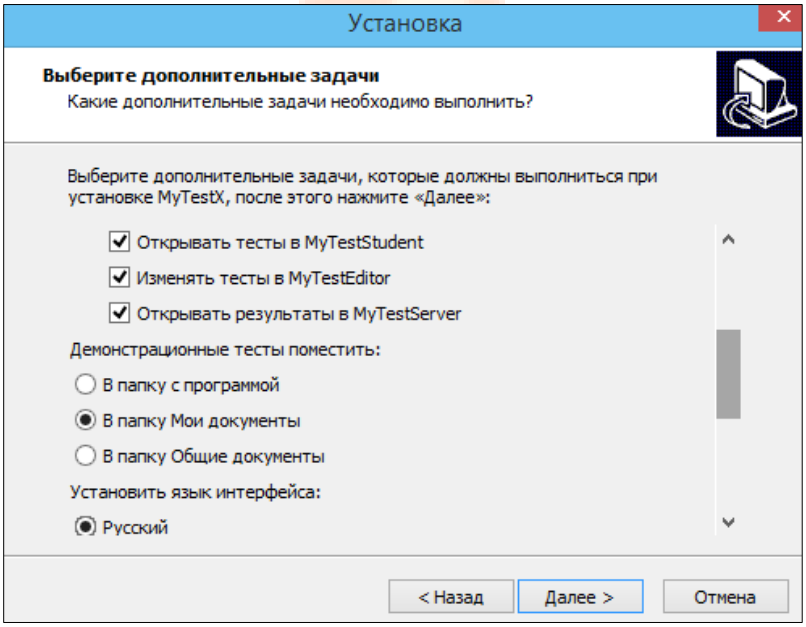

Figure 3. "Installation" Window

"Next" (Figure 3).

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Once the program is fully installed, three modules of the MyTextX program will appear on the desktop. These modules are MyTestEditor, MyTestServer, and MyTestStudent. The teacher installs all these modules on their computer. The MyTestStudent module is installed on all computers in the computer lab for students.

The following module icons will appear on the teacher's computer (Figure 4).

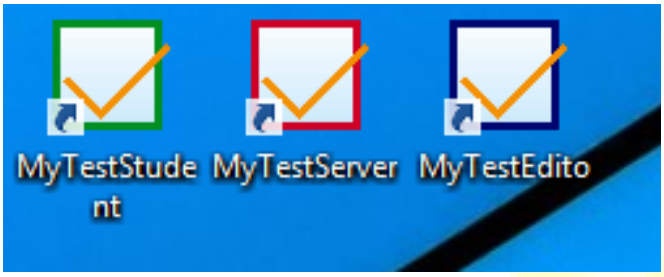

Figure 4. MyTextX Modules

The following icon will appear on the students' computers (Figure 5).

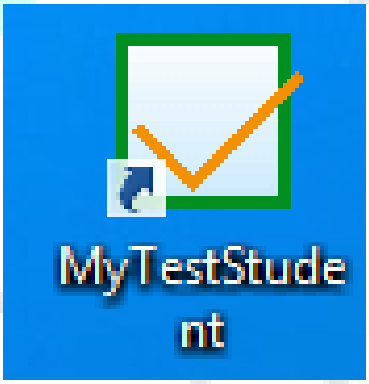

Figure 5. MyTestStudent Module

Here is the translation of the text you provided from Uzbek to English:

The MyTestServer module performs tasks such as monitoring the testing process, determining test results, distributing tests to computers, setting parameters, and other related tasks.

The MyTestStudent module receives the test from the server and carries out the test-taking process.

The MyTestEditor module is responsible for creating new tests, editing existing tests, and performing other related tasks.

Before starting the test, students identify an administrator who performs the function of merging the created test assignments into a single comprehensive test.

Test Preparation and Editing

1. Launch the MyTestEditor module.

2. Navigate to “File” – “Open” – open the "MyTestX Tests" folder and select the “DemoTest01” file from the demo tests (Figure 6).

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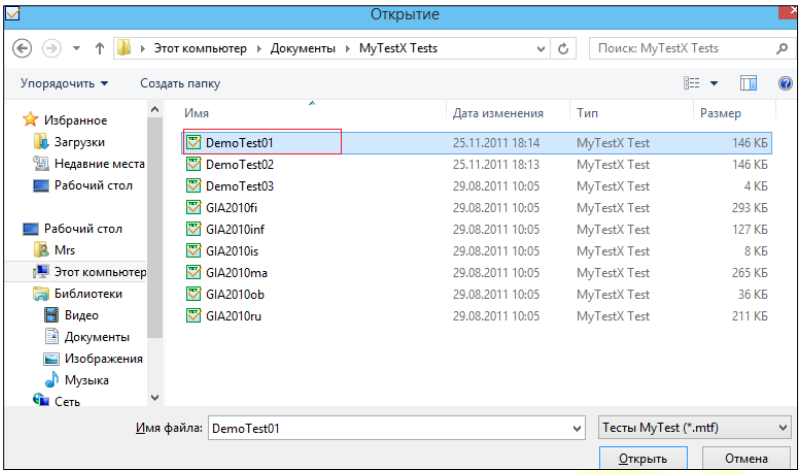

Figure 6. List of Files in the MyTestX Tests Folder

We will study the types of tests using this prepared test. This will help us save time.

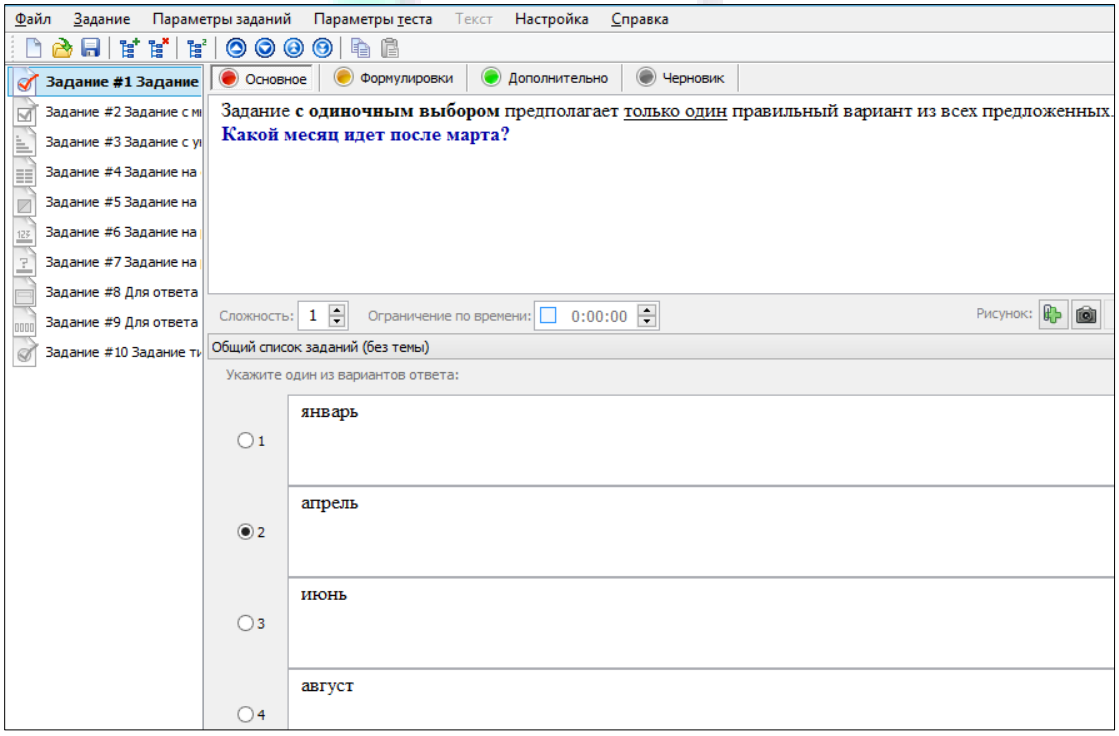

Figure 7. List of Demo Tests

This demo test includes examples of 10 different types of tests (Figure 7).

All the commands in the file section are familiar to us, such as creating, opening, saving, renaming and saving, test information, and importing (adding) the current test into another test.

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If the "Export" – "Printed Test..." command is executed, the test file will be exported to a regular text file. Let's try executing the export command. After selecting the necessary sections, we choose the OK command.

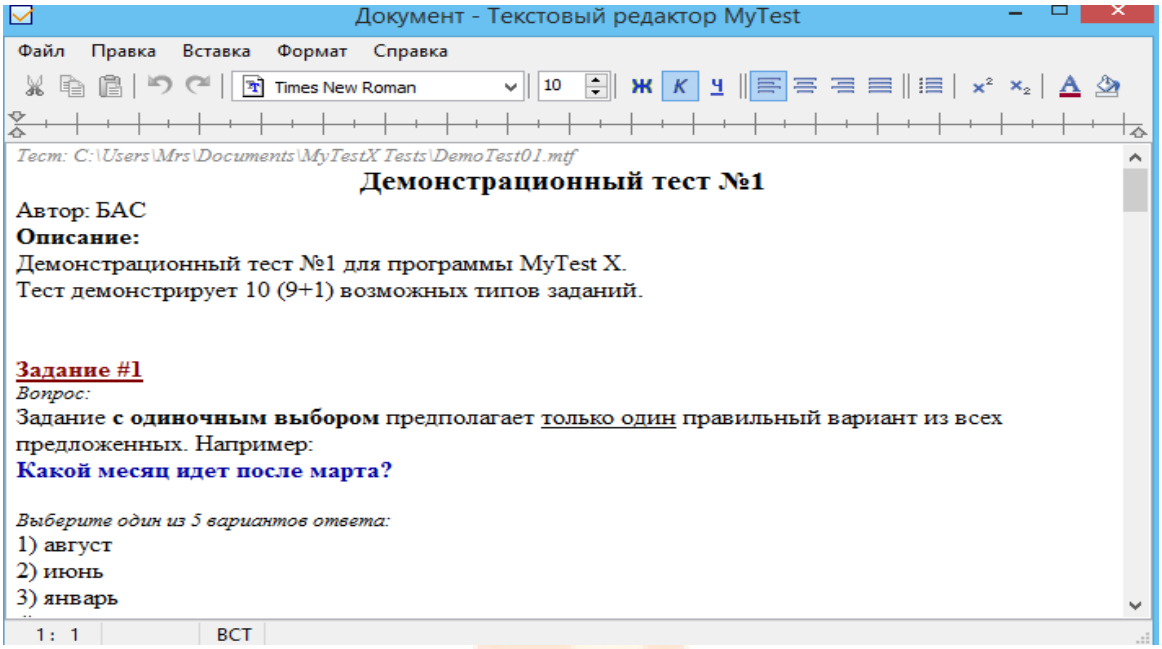

Figure 8. Export File Result

After a few seconds, the exported file will be displayed on the screen in text format (Figure 8). To prepare new test questions, select "Task" – "Add" and choose a specific test type as needed (Figure 9).

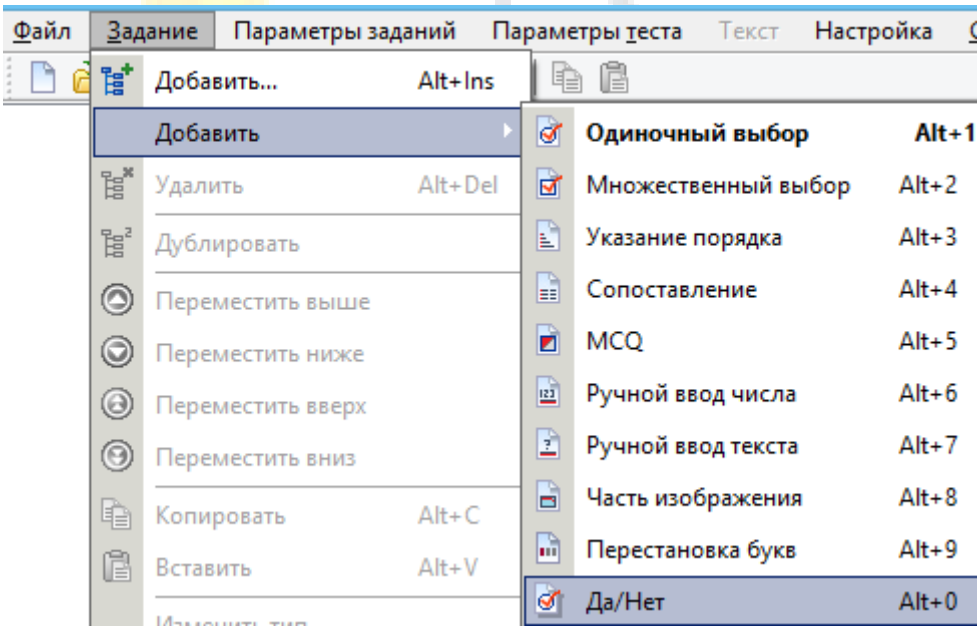

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Figure 9. Selecting the Test Type

Let's get familiar with them below.

"Single Choice" – only one answer is selected. The question and answers are entered, the correct answer is selected, and the "Save Task" button is clicked (Figure 10).

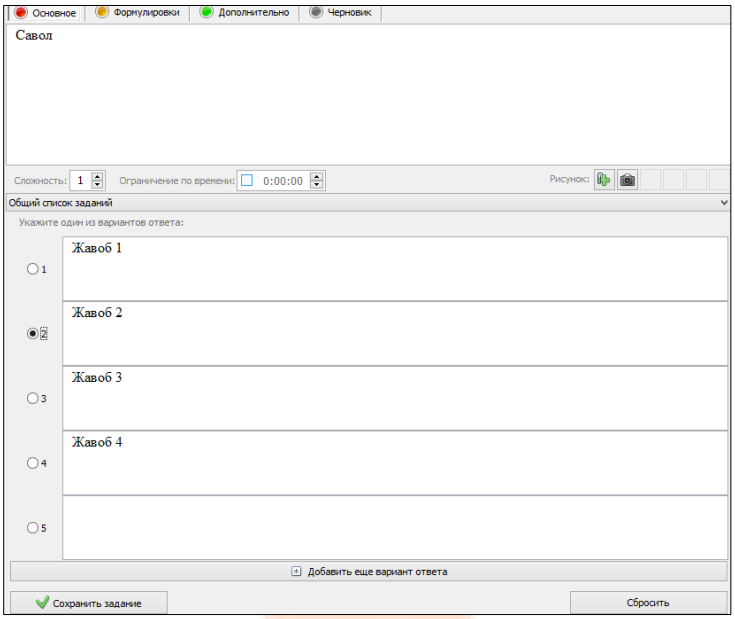

Figure 10. "Single Choice" Test Type

"Multiple Choice" – selecting several answers. One, two, or three, and so on, answers can be correct (Figure 11).

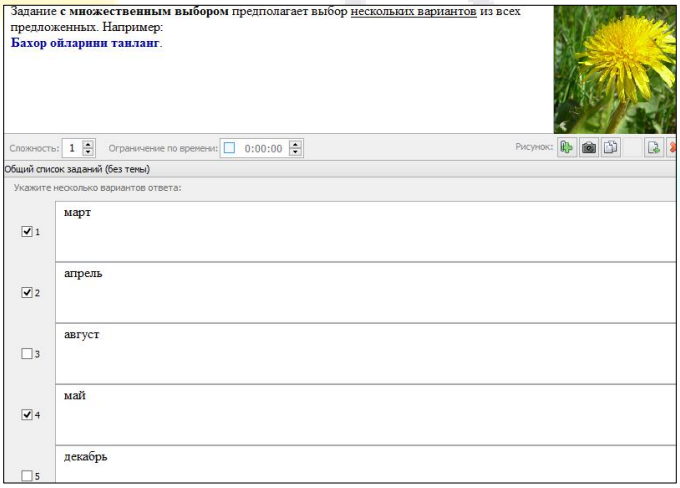

Figure 11. "Multiple Choice" Test Type

CURRENT RESEARCH JOURNAL OF PEDAGOGICS
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"Indicating the Order" – arranging the answers in the requested order. The correct answers are assigned by selecting the order number in the numeric field (Figure 12).

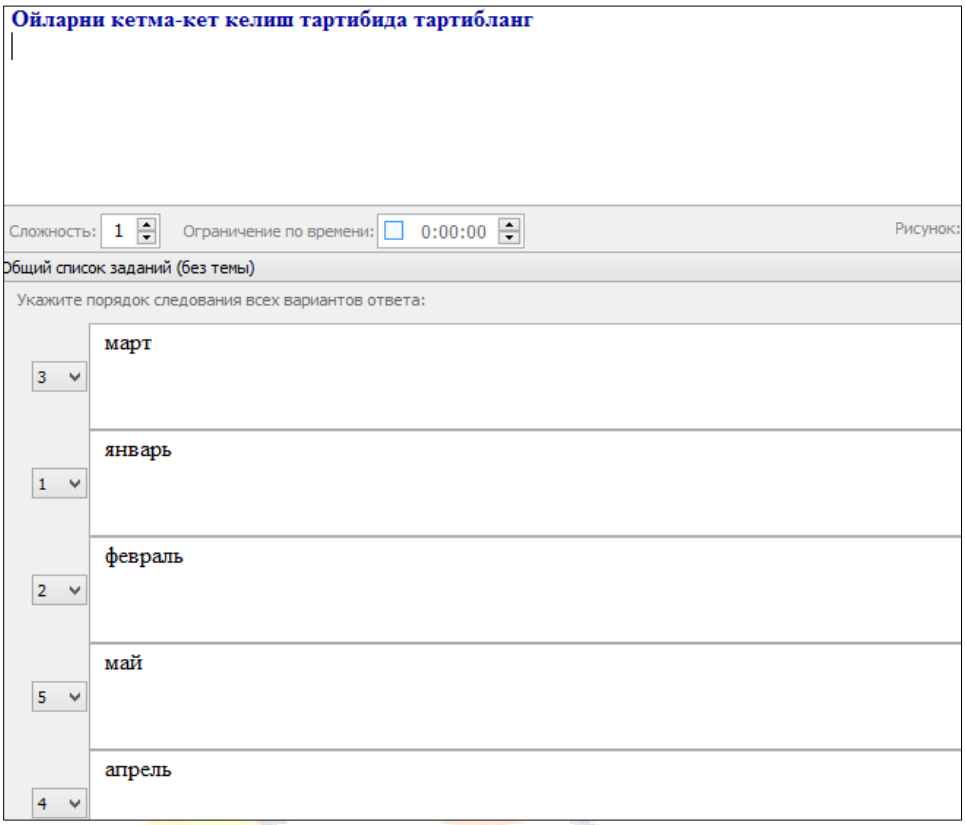

Figure 12. "Indicating the Order" Test Type

"Matching" – comparison, matching. Selecting or matching objects to the proposed characteristics (Figure 13).

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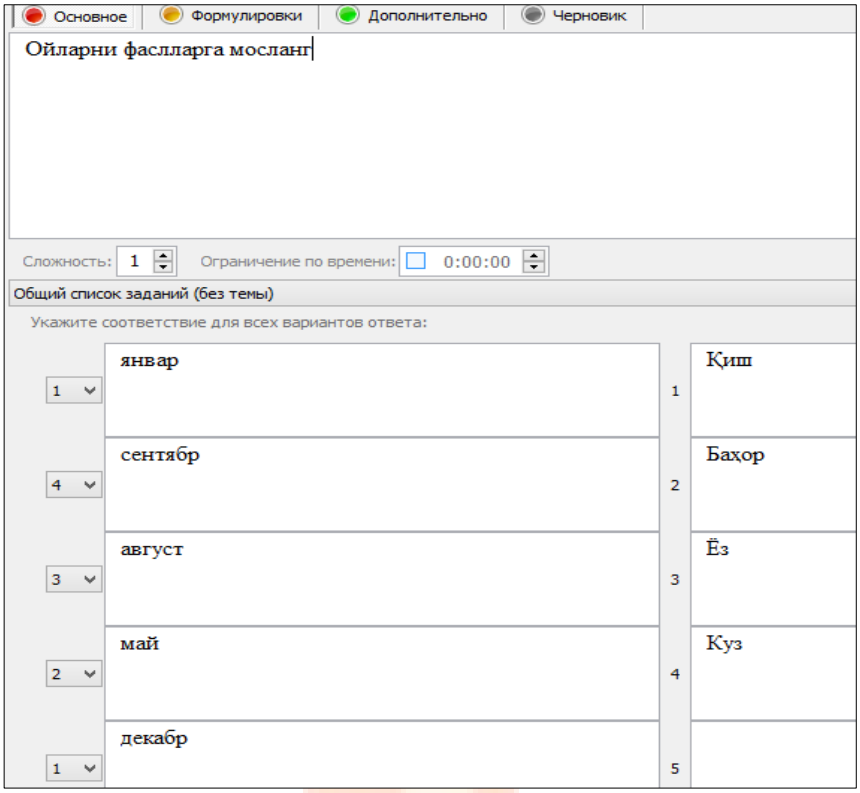

Figure 13. "Matching" Test Type

"MCQ" – specific answers are provided to the question, and the correct one is selected from the Yes/No options (Figure 14).

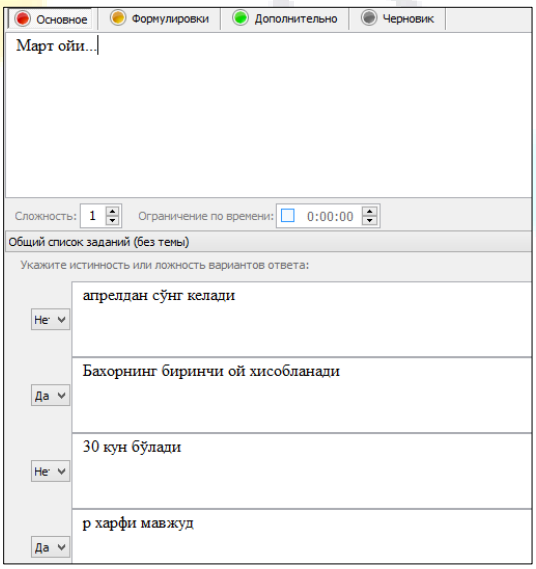

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Figure 14. MCQ Test Type

"Manual Input of Number" – entering a numerical answer to the given question (Figure 15).

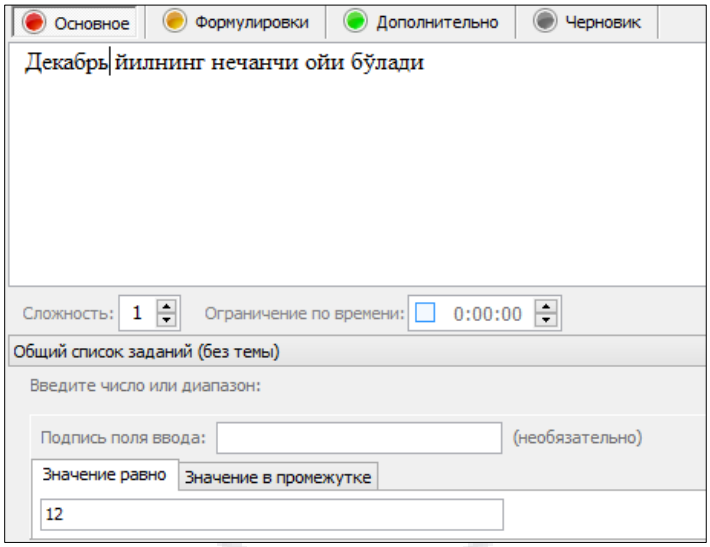

Figure 15. "Manual Input of Number" Test Type

"Manual Input of Text" – answering the given question using a text response (Figure 16).

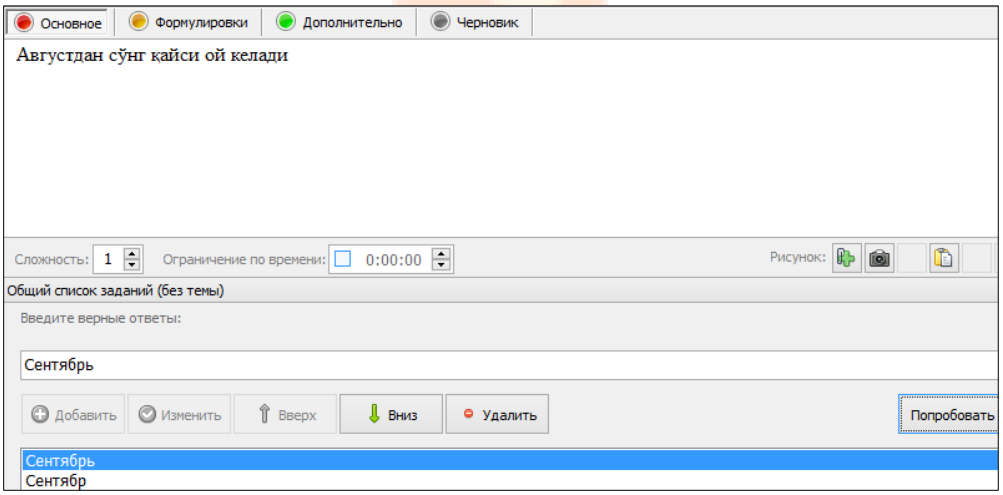

Figure 16. "Manual Input of Text" Test Type

"Part of the Image" – selecting the requested object from the proposed image.

CONCLUSION

Today, the need to study the theoretical foundations of digital software tools and apply them in practice remains a pressing issue. At the same time, traditional teaching methods have somewhat lost their effectiveness, and teaching through mere verbal explanations no longer yields good results. Instead, digital teaching and digital assessment are proving to be more effective in the educational process. In

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addition, the rapid development of science and technology, along with the significant increase in the amount of information, requires modern teachers to have scientific potential, skill, and a high level of pedagogical expertise.

In conclusion, it should be noted that teachers of various subjects should use test preparation software like this and continuously develop their knowledge about it. Furthermore, we believe that it is necessary to use automated test software to ensure that assessments are fair and transparent.

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INTERNET RESOURCES

1. http://mytest.klyaksa.net/wiki
2. https://cyberleninka.ru
3. https://fipi.ru
4. https://obrnadzor.gov.ru/
5. https://t.me/Namdu_ilmiybolim/121
6. https://new.tdpu.uz/page/5949