

# Technological bases of creation of interactive electronic training courses

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## Abstract

The article discusses the modern processes of managing interactive electronic training courses in the education system.

*Keywords:* interactive, electronic book, electronic market

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Today it is necessary to reform the educational process in the education system, develop new teaching methods based on information technologies, and widely introduce them. At the same time, the introduction of interactive electronic training courses into the educational process is becoming one of the modern requirements.

It should be noted that when creating interactive electronic training courses intended for the educational process, it is necessary to take into account programmers and system tools. Below we list the features that should be available in educational computer programs:

For the user:

1. General provisions the organization of the educational process at different levels from acquaintance to full assimilation;
2. The ability to demonstrate training materials depending on the purpose of the training.

For the programmer:

1. General provisions bringing a certain sequence in the program;
2. Make a list of concepts that are difficult to understand;
3. Construction of a graphic model of the relationship between the concepts of mutual determination.

The problem of three directions arises when implementing the education system: - Technician: provide a computer and technical devices, process communication channels.

- Organizational: provision of highly qualified managers, teachers, specialists.
- Methodology: visual weapons, lecture text, multimedia, animation, provision of test data. There are a number of advantages and benefits of using in education, including: - Training time is optional, the student can study, study in his spare time.
- It is not necessary to conduct classes in the classroom.
- Teaches students to study independently.
- Requires highly trained teachers.
- Students can get practical and quality knowledge.
- The ability of students to independently think and make decisions is developing.
- Students develop skills in using technical devices, computers, the Internet, and email systems.
- Funds for education are cheaper. New conditions are emerging for acquiring knowledge of talented youth, especially from low-income families.
- Education has no boundaries, that is, students can study in other places, from the region, city.

There are specific elements of the educational process,

such as an instructor (teacher), students, communications, training materials, devices.

At the same time: - An instructor, a teacher is a special specialist who teaches. He prepares an appropriate training course, advises students and students, answers their questions, and controls students' knowledge.

- Training material - an appropriate training course, study guide, Internet, electronic library.
- A student is a person who improves his knowledge through independent education, receives the necessary information, independently deals with it, addresses questions, performs assigned tasks, and checks his knowledge.
- Communication is a means of communication, a bridge connecting a student's appeal with an instructor. It can also act as a liaison between student.

To this end, it is cheaper to search for the necessary information from an e-book or copy it into text editing and collect information not only for such purposes, but also provide an opportunity to bring the data to the state of the book.

Currently, many companies have been set up selling interactive e-learning courses for distance learning. Their main goal is to organize an electronic market in a certain form and get the necessary profit in it.

When creating such tutorials, several programming languages are currently used. In particular, Macromedia uses programming languages, JSP and other programming technologies such as Flash, Microsoft FrontPage, Microsoft PowerPoint, HTML, JavaScript, CSS, PHP, etc.

Such programming languages make it possible to view documents of a certain volume via the Internet. With their help, you can organize various links to text, images, to a web page. Of course, the JavaScript program has more features than an HTML program when creating such programs. Using it, you can place active elements on a web page. When creating interactive e-learning courses, you can use only an HTML program.

Using this language, you can compose the basic part of interactive electronic training courses, text of questions, answer options, etc. The HTML programming language is one of the only languages that allow you to view documents on web pages.

When choosing a JavaScript programming language, its main features are as follows:

- the JavaScript program is very convenient for working with HTML documents;
- active and passive parts of the program are located in one document. JavaScript is a program that interprets

the loading of a particular program in a web browser. At the same time, the speed and loading of the configured program increases, and special programs are not needed to download it, other service tools will be placed in the browser itself.

- JavaScript software has the ability to work in all web browsers, such as Java software, but compared to JavaScript, JavaScript is easy and convenient.

Thus, the created information and teaching aids are

widely used in the distance learning system, such as the traditional form of student learning. Developed training materials increase the level of independent work for full-time students and at the same time do not carry much work for the teacher. Currently, the creation of electronic teaching aids that meet certain requirements and the basics of creating the interactive electronic training courses listed above is important in the distance learning process.

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