IMPLEMENTATION OF LEARNING MANAGEMENT SYSTEMS AND ITS ROLE IN THE EDUCATIONAL PROCESS IN THE REPUBLIC OF UZBEKISTAN

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ABSTRACT

The article analyzes and compares modern learning management systems (LMS). Their disadvantages and advantages are revealed. The system of advantages of using the systems is visually demonstrated. The role of LMS in the system of higher education in the Republic of Uzbekistan is determined. The possibility of LMS application in inclusive education is separately noted.

Keywords. LMS, user, administrator, on-line education, inclusive education, Moodle, iSpring Online, Hemis.

INTRODUCTION

During the development of the digital economy of the Republic of Uzbekistan, it is vividly reflected in the field of education. Playful forms of the learning process through an online portal become possible with the help of learning management systems known as LMS (Learning Management System). As a platform for e-learning LMS means the following: Learning With an LMS, you create a single database of e-courses and learning materials. Management - LMS can manage the courses, and can learners. To start training, just add students and assign them courses. System - An electronic system. Being in different cities, you can train everyone who wants to, without leaving your own office. In addition, the LMS automates the work of checking tests, collecting statistics and preparing reports. Learning through an LMS does not have to be done remotely.

Among others to remote use, it is quite realistic to apply LMS in a live classroom, resulting in the possibility of mixed education.
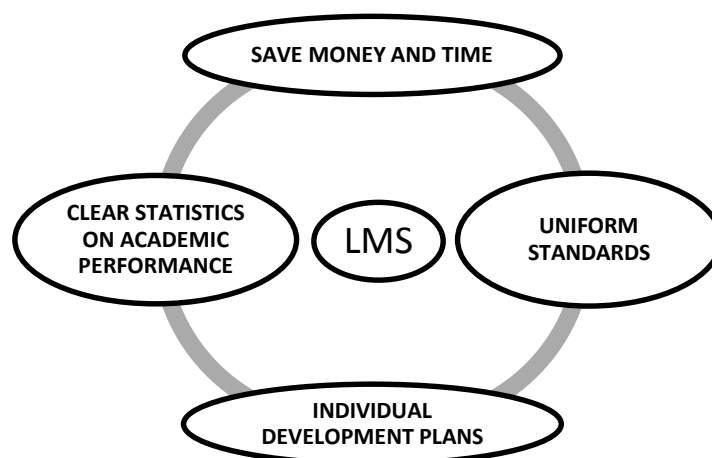

Fig. 1. Advantages of using LMS (author's approach).

ANALYSIS AND DISCUSSION OF EXISTING SYSTEMS

Let's take the LMS as an example of the iSpring Online service. ISpring Online is a cloud-based service where you don't need to download, install and configure the software. All you need is to connect to the Internet and register an account. Similar to working with cloud services like Yandex, Google Drive, upload training materials to the LMS by clicking the "Add" button and downloading the necessary files from your computer. These can be presentations, audio/video clips and documents, as well as, special Storm courses. Based on iSpring Online, you can create a training program. With this feature, you will be able to customize the order of lessons, assessment criteria and, if desired, issue certificates to users, which may well replace the teaching and learning complex, widely used in Uzbek universities.

The LMS has different user roles: user, author and administrator, which gives each user certain rights and capabilities. Users can take their assigned courses and materials. Authors have the right to manage courses. And the administrator can add and delete users, group them and assign roles.

In iSpring Online there are three ways to automate the addition of users to the system: invite by email, share a link for self-registration or import the list from a CSV or XLSX file, which saves the administrator from routine work. The advantage of LMS is that you can evaluate the effectiveness of training in real time. Detailed statistics will show how much time students are spending on learning materials and how much progress they are making. To start a virtual learning center with iSpring Online, simply upload your training materials, invite students, and track your progress.

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Moodle is a web-based environment.

It requires:

- A web server with PHP support (e.g. Apache2);
- a database server (MySQL is used by default).

Oriented on distance learning, the learning management system Moodle has a large set of communication tools. This is not only email and the exchange of attached files with the teacher, but also a forum (the general news page on the home page of the program, as well as various private forums), chat, private messaging, blogging. Moodle has not only a multifunctional test module, but also provides the ability to assess students' work in such course elements as Assignment, Forum, Wiki, Glossary, etc. And assessment can take place on an arbitrary, created by the teacher, scales. It is possible to have the articles in the Wiki, the glossary, and

the forum entries graded by other course participants. All grades can be viewed on the course grades page, which has many options for the type of display and grouping of grades.

Since the main form of knowledge control in distance learning is testing, LMS Moodle has an extensive toolkit for creating tests and conducting training and control testing. Several types of questions in test tasks are supported (multiple choice, matching, true/false, short answers, essays, etc.). Moodle provides many features to make test processing easier. You can set the rating scale, when the teacher corrects test tasks after students have passed the test, there is a mechanism for semi-automatic recalculation of results. The system contains advanced tools for statistical analysis of test results and, very importantly, the complexity of individual test questions for students.

There are some disadvantages in the use of Moodle:

- limited means of developing teaching and learning content;
- Inability to conduct webinars and web conferences;
- Lack of opportunities to embed special, higher-level courses into SCORM packages, etc. [1]

If there is no possibility to install Moodle, it is possible to suggest to try a cloud service from the developer - Moodle Cloud.

The advantages of this method are:

- You don't need to install anything. It is enough to register and get access to the system.
- There is a free plan.
- Russian interface.
- The possibility of video conferencing.
- Automatic updates.

But there are certain disadvantages here as well:

- Third level domain, which makes it difficult to remember.
- No way to connect your modules.
- There are ads that cannot be disabled.

MoodleCloud system can be recommended as a personal distance learning system or an opportunity to practice creating courses in Moodle.

More than 400 companies in Russia and other countries, including universities, corporate training centers and other organizations use the software developer Hypermetod, which has been translated into 8 languages and offers the following software products:

- SIS e-learning platform for distance and blended learning.
- System of creation of information portal e-learning SIS.
- Overview of global e-learning market.
- Learning content management system e-learning SIS.
- Designer of electronic courses, tests, trainings, exercises.
- Management of learning in the computer lab.
- Ability to hold events on the Internet and the corporate network in real time - a webinar.

Also of interest are the products of the Websoft company, whose library consists of more than 60 ready-made e-courses for the corporate sector and offers:

- Automated system for personnel management Web Tutor.
- An electronic course development tool - CoursLab.

- CoursLab Teamwork, a tool for collaborative e-course development.
- Webinar tool - Virtual classroom.
- Webinar service - v-class.ru.
- Service for organizing distance learning and testing - mylms.ru.

Consider Web-application Edmodo - a social network for learning, which does not need to be installed anywhere and which interface is reminiscent of the interface of the social network Facebook.

- Service Edmodo free, it has no advertising, simple registration, users are divided into three groups - teachers, students, parents. Each group registers separately and has its own access code.

However, there are some disadvantages [2]:

- English-language interface.
- Impossibility to combine Edmodo groups.
- Poor set of educational elements.

To conclude our review of popular distance learning applications, let's take a look at the Google Classroom system. Of the features of Google we can mention:

- Free registration (like on Facebook).
- Using Google tools exclusively.
- The participants of the educational process on Google disk creates a common folder "Class".
- The folder is available for the individual learner, as well as for the class as a whole.
- The Russian language is supported.
- Free.
- The brand, as the world leader Google - known to all.
- There is an opportunity to publish theoretical material, assignments, to set scores, there is a calendar.

However, there are disadvantages:

- Poor arsenal of learning elements. For example, there are no controls such as tests.
- Inconvenient links to Classroom.
- Uncomfortable interface.

So, after reviewing examples of the most popular LMS, let us note their general shortcomings:

- Reports generated by the system do not meet the needs of the consumer.
- Long time required to implement the system, associated with the finalization of the training program.
- Inability to meet the requirements of all departments.

CURRENT METHODOLOGY

Currently, the leading role in the educational process of higher education institutions in the Republic of Uzbekistan is given to the Higher Education Management Information System (HEMIS). The launched Higher Education Management Information System (HEMIS) will make it possible to transfer administrative, educational, scientific and financial areas into electronic format. International practice shows that the human factor is minimized here. The system provides openness, transparency, fairness, saves time, and, most importantly, reduces costs. Unlike previously considered systems Hemis has the most versatile capabilities to meet

the needs of all departments. This system allows comprehensively competent implementation of credit-module system of educational process in higher school [3].

CONCLUSIONS

Electronic education management systems became especially important during the covid-19 pandemic. However, in addition to unforeseen pandemic, we cannot exclude from consideration the actual problem of implementation of inclusive education, which takes place everywhere and always.

Thus, we conclude that the implementation of electronic education management systems has taken its rightful place in the educational process of universities in the Republic of Uzbekistan and continues to increase the pace of its development [4].

In addition to the educational significance, the assessment of the effectiveness of the teacher, his role in the qualitative development of educational material, the ability to keep up with the times in the composition of educational content is becoming increasingly important.

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