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Creating on-line center for retraining and qualifications increasing the teachers computer science in English

Abstract. This article considers approaches to creating an on-line center for retraining and qualifications increasing the computer science teachers in English. Such the training center will make possibilities to ensure the accessibility and visibility of education as it is a modern popular tool for the training and retraining of teaching staff. The article gives the main prerequisites for the creation of this project and the ways for its implementation. The author compares other on-line training resources and shows the advantages of the proposed project. The scheme for creating an online center for retraining and qualifications increasing the computer science teachers in English takes precedence over other similar programs because it has an effective learning environment, control of student knowledge, a payment system, and feedback to trainees.

Key words: on-line center, on-line banking, information technologies, technical characteristics, knowledge, feedback.

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At the present stage of the development of the Kazakh education, we are at the beginning of the implementation of the trilingual principle in society, through the education system. Minister of Education and Science of the Republic of Kazakhstan Sagadiyev E.S. said in his published appeal to the society on March 9, 2016: “From this year we plan to begin the introduction of the study in three languages of subjects, especially the natural sciences (such as chemistry, physics, biology, computer science), according to updated methods, developed in accordance with the best world practices”[1].

Because, a large-scale system of personnel training is being formed in Kazakhstan, which will allow using the information technologies to quickly and universally introduce new methods of teaching naturally scientific subjects in English. Therefore, the Ministry of Education and Science of the Republic of Kazakhstan plans to start this program in 2018. We propose to develop the project referring to this program.

In connection with the introduction of three-lingual education in the Republic of Kazakhstan the project, that we offer will provide an opportunity to create on-line center for retraining and advanced training of computer science teachers.

Currently, this problem is at the initial stage of implementation. Therefore, the aim of our project is to help the employees of education in retraining and advanced training for further teaching of the subject of informatics in English. To date, teachers do not have the opportunity to gain knowledge of computer science in English without interruption from production, regardless of their place of residence, so information and communication technologies will enable them to solve this problem and obtain a certificate for this specialty.

The organization for retraining and professional qualifications increasing requires large material and time costs, that’s why we offer a paid service with the least expenses for a long distance and there is an opportunity to get a decent education with the knowledge of English with the help of on-line training with a demanded certificate.

The on-line training center that we create for retraining and professional qualifications increasing of the computer science teachers in English is a modern and demanded tool for teaching and retraining of teaching staff. It allows ensuring accessibility and visibility of the education.

Provisioning of the online learning center which we will create:

- authentication of the listeners;
- information and full content of educational material (throughout the course of computer science from 4 -12 grades, according to the training program) [2,3];

- author's work of tutors (lectures, practical works);
- the trilingual dictionary [4,5];
- tests on the topics of the course of computer science and a test for taking an external exam;
- monitoring the result and progress of the student's training;
- the training system with a teacher;
- the training system is self-sufficient;
- the certification module;
- the feedback modules with listeners;
- the payment for training through on-line banking.

Scheme of work the on-line learning center in the Figure 1 and Figure 2:

We have been identified the aim and objectives of the proposed project. The project involves an increase in paid educational services and a level of pay to the scale that allows profit to educational institutions, which allows the creation and implementation of an on-line center for retraining and advanced training of computer science teachers.

The subject of the announced competition is the creation of an educational training portal for retraining and advanced training of computer science teachers; this portal will provide the following paid services, using electronic banking:

- payment for the course itself;
- payment for the course of study with a teacher;
- payment of the exam of the external.

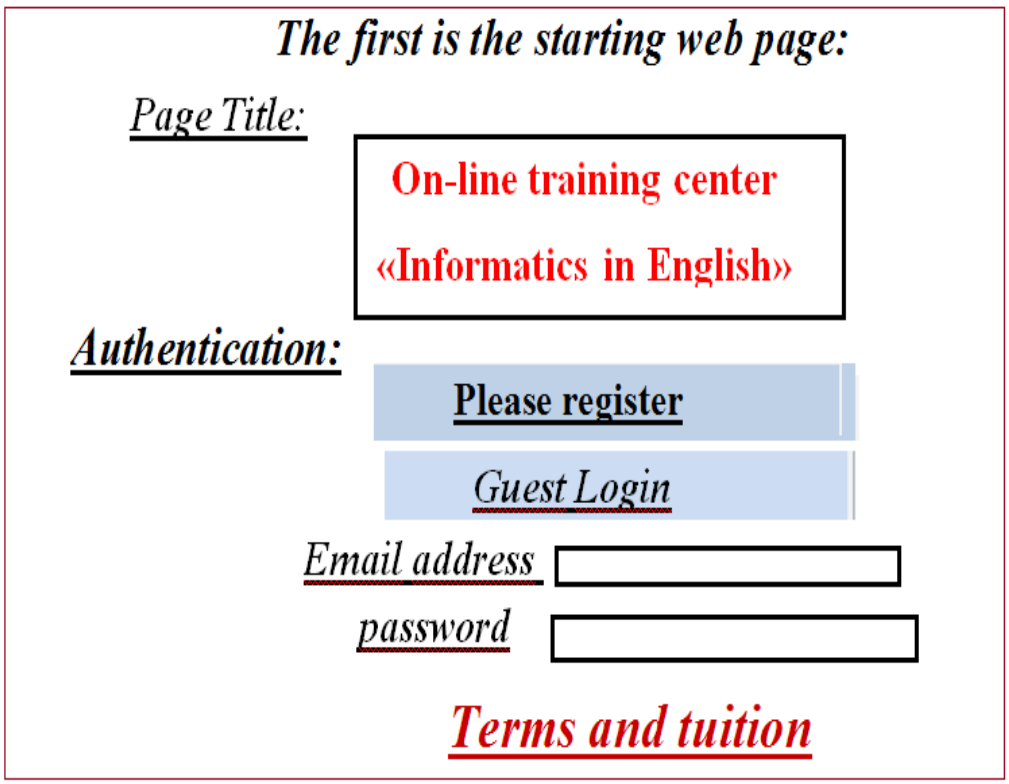


Figure 1. The scheme of the first page

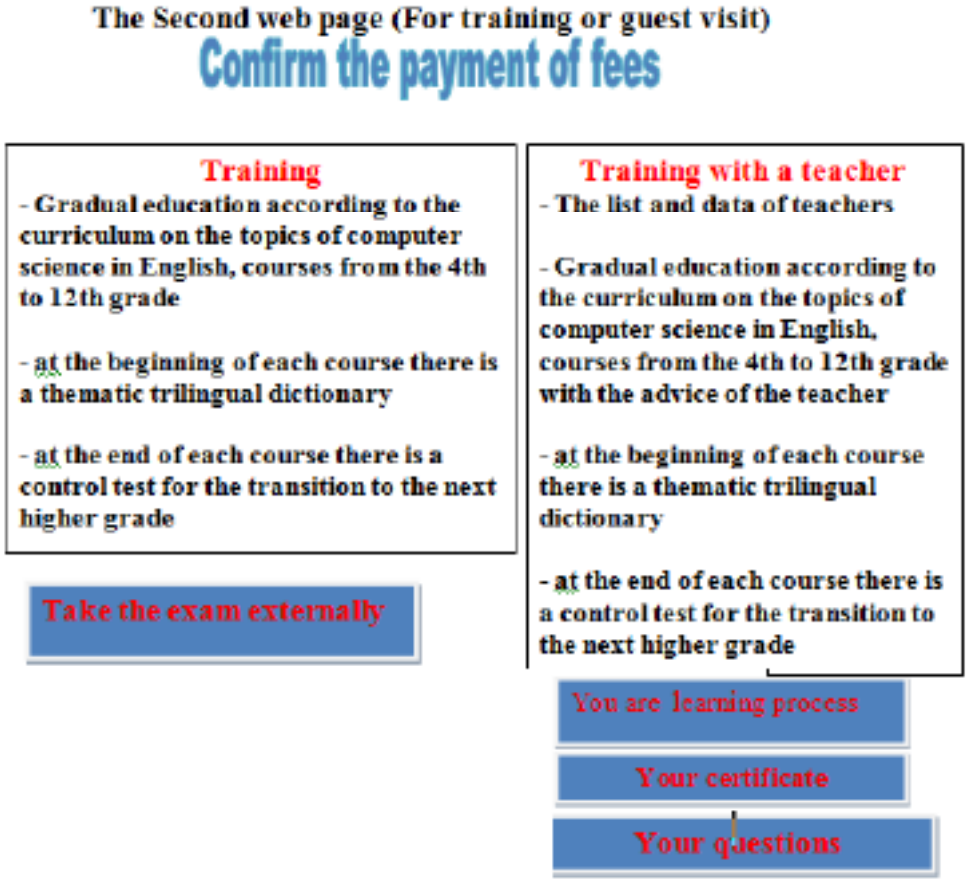


Figure 2. The scheme of the second page

In addition, we made comparative description of the proposed product or service with existing analogues or substitutes in the market with specification of technical characteristics.

At present, there are many on-line centers for training commercial enterprises and organizations in Kazakhstan, they have directions for obtaining education in a specific subject area. In particular, they are such leading providers of training services in Kazakhstan as "Line Practitioner" for information technologies professionals, English language courses, courses on the history of Kazakhstan, etc.

The main focus of our on-line training center is the preparation and retraining of teachers for the computer science class in English, which is relevant for the trilingual education program, which the Ministry of Education and Science of the Republic of Kazakhstan plans to implement in 2018: «In general, the Ministry of Education and Science of the Republic of Kazakhstan defined several priority areas for the implementation of the state program: the legal and methodological foundations of trilingual education, the renewal of educational programs and the creation of a unified system for training teachers»[6].

In conclusion, we want to note that the proposed scientific project of the theme "Creating on-line center for retraining and qualifications increasing the computer science teachers in English" will bring new approaches in the organization of professional development in the teachers of our country. The proposed project is also necessary in the context of a multilingual education in Kazakhstan. If this project will be developing according to our experience and will be implementing in educational institutions, it will be one of the stages of the development of a multilingual education.

In the future, we plan to attract native speakers from the English-speaking countries for

teaching in the on-line center. The higher the interest in new professional, personal, cultural, scientific contact skills with native speakers, with the achievements of science, technology, culture of different countries in society, the higher the status of multilingualism as a tool for establishing professional communication for effective exchange of experience and, as a result, becoming a specialist [7].

In addition, we plan to teach other disciplines such as the physics, the chemistry through our on-line center. To do this, we must first make the on-line center for retraining and qualifications increasing the computer science teachers in English.

Thus, in this article we proposed the main ways of realizing a scientific project. Now, we have cleared up with the goals and methods, with the structure of the program, we also examined the prospects for the development of the multilingual education in Kazakhstan. The article reflects the main work and scientific research that is carried out by the team for the implementation of this project. After the development of the software product, we want to submit our project to the competition of scientific projects.

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Информатика пәні бойынша ағылшын тілінде педагогтардың қайта даярлау және біліктілігін артыруға арналған on-line оқу орталығын жасау

Аннотация. Мақалада ағылшын тілінде информатика пәні бойынша педагогтардың қайта даярлау және біліктілігін артыруға арналған on-line оқу орталығын жасау жобасының жолдары көрсетілген. Айтылған жобаның негізгі мақсаттары көрсетіліп орындалу тәсілдері берілген. Мақалада автор Қазақстандағы іске асырылған on-line оқу жүйелеріне қысқаша талдау жасап салыстырма жүргізіп өзінің жасауға жобаланған информатика пәні бойынша ағылшын тілінде педагогтардың қайта даярлау және біліктілігін артыруға арналған on-line оқу орталығының ерекшеліктеріне тоқталған. Соңымен қатар макалада on-line оқу орталығының құрылымының сұлбасымен техникалық сипатамасы берілген.

Түйін сөздер: on-line орталығы, on-line банкингі, ақпараттық технологиялар, техникалық сипатамалар, білім, кері қарым-қатынас.

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Создание on-line центра по переподготовке и повышению квалификации педагогов информатики на английском языке

Аннотация. В даной статье рассматривается практическая реализация создания проекта on-line центра по переподготовке и повышения квалификации педагогов информатики на английском языке. В статье отражены основные поставленые цели и задачи для реализации проекта и показаны методы создания данного проекта. Автор проделал краткое сравнение с другими учебными on-line системами, котрые существуют в Казахстане и описал приемущества собственного проекта. К тому же в статье преставлены схема реализации программы, как on-line центр по переподготовке и повышения квалификации педагогов информатики на английском языке, и данны его технические характеристики.

Ключевые слова: on-line центр, on-line банкинг, информационные технологии, технические характеристики, знания, обратная связь.

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