

E-Learning Prototype for Secondary School: A Case Study of Iraq

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Abstract In these papers will be talking about e-learning, which is one of the types of development in information and communication technology, and how to benefit from it and use this technique in solving many problems that became impede the progress of education in many countries. Iraq is one of these countries, which suffers education, which was delayed significantly because of the problems experienced by students, such as the inability of students to easily navigate and communicate with the curriculum daily in schools and also the bad situation in Iraq, so it needs new models of education. Therefore, we will use e-learning technology to solve these problems by designing and building a prototype for Iraqi secondary school in Iraq.

Keywords Cloud, UTC, University of Technology

1. Introduction

The rapid development of Information Technology and Communications, which is taking place in the whole world. That Is something important, must stand with that. This development has been overshadowed by a number of areas main in our lives. Thus prompting the change in the way the style of our dealings in most areas in which we contact with such as science, economy, trade, medicine and education. And here we will highlight one of these areas is education and one of the effects of technology on this field, namely E-learning and how important that had led to a boom in the field of education in terms of ease the way for students to access information and take advantage of as a result providing time and cost [1].

Recently, new media and systems for education are appearing in the form of portable dictionary, e-book, distant/virtual classrooms, and so on. The main concept of new educational systems is to combine the educational contents using information and communication technologies [2]. The students study their textbooks with auxiliary audiovisual contents, which are played on the personal computer and specific terminals. In the distant classroom, the remote education is performed by communication networks. And the students can have some experiences on the remote or

imaginary places by the virtual classrooms [3].

The deteriorating security situation in Iraq has contributed significantly to the deterioration of the educational process. There are many secondary schools student's in Iraq can't communicate daily with the school, so, they couldn't complete their curriculum. In addition, the students in rural, they couldn't connect with school because of distance and difficulty of transportation [4].

Empowering distance education's is crucial for Iraq after decades of traditional learning. Iraqi people need the knowledge and competence to compete in an increasingly technology-driven world economy. Iraq needs new models of education facilitated by educational technology. Some of the most promising new educational approaches are being developed through E-learning and virtual schools [5].

2. Development

Web applications' designers have facing many challenges during development stage of the systems. Most of these challenges are with data handling, organizing, or structuring of the web applications [6]. In this study the prototype has been developed by using Visual Studio 2005. Microsoft.NET Framework provides developers with the opportunity to create and deploy applications and services via the Web.

These services can facilitate communication between clients and .NET application servers (such as database servers and so on) through the use of XML queries issued by the client. This environment is attractive to developers because it is a language-neutral environment that can deliver

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content to end users, regardless of the platform in use [7].

In this level the design school system prototype was being build; then, had been develop the web site by using requirement of Usability Guidelines.

This usability guideline is specific to online forms. Usability describes the ability of customers to use an online form to full advantage (so that the technology assists and

supports users), and so that the form achieves business objectives. This is to help clients understand why adopting the guidelines will affect their customers [8].

Online development is necessary part of making Internet services strong to unexpected events, and changes in system requirements .The main page have every activate as download, upload. Figure 1 illustrate this message:



Figure 1. Homepage

Download page in this page the student can download the materials (document, video ...) that upload from another student. Figure 2 illustrate this message:



Figure 2. Download Page

Upload page the user can upload material during press upload button and choose file (document, video,...) and then add name the topic and press submit button. Figure 3 illustrate this message:



Figure 3. Upload Page

3. Study Contributions

After designing and developing e-school system: a case of Iraqi helps the teacher and students by gaining an easier way to make their demands by providing them with the necessary functionalities in this system and increase the communication ways between them. The prototype was developed by using ASP.NET with C# in coding. In this study appeared how the users (teacher and students) can make efficient interaction between them when they use the system. Microsoft SQL Server is used to make the database that stores the required information in the system.

4. Problems and Limitations

Although this system allows to the users (teacher and students) easier way for efficient interaction, and the many features in the Microsoft SQL Server as database; that is more appropriate with the online applications. There are some significant shortcomings in application this system in real world, which include: In case of apply this system in as real world will face some difficulties when the young students using it because of their Inexperience in internet application, in spite of the numerous illustrations available in this system. But these difficulties will be temporarily and could end quickly when the students are using the system daily will be simple and easy to use for them.

5. Conclusions of the Study

As was presented in chapter one, the objectives of this study is to design and develop a secondary school system: a

case of Iraqi for distance education purpose. The prototype helps staff of Iraqi school and students to do their demands easily anywhere at any time using an e-school system. The system increases the interaction between them.

6. Future Works

E-learning in Iraq is still in its infancy, and needs to be heavily subsidized by the government. In addition, they needs for specialized staff to help in building web-based for learning and able to manage the school sites.

The e-learning system for secondary school: a case of Iraq for distance education purpose is to enable the students to communicate with teachers, more efficient and organized. In addition, the site could be developed in future through the use of multimedia technology that allows teachers to give lessons on the Internet and interact with the lesson the students directly.

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