

# Design of Network Simulated Examination System for Tour Guide Qualification Certificate Examination Course

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**Abstract:** In order to adapt to the development trend of network and multimedia teaching, this paper puts forward the design scheme of network simulation examination system, and analyses the technical route, functional modules and concrete realization of the system. The application of computer technology and Internet technology in the teaching of traditional courses expands the classroom space, stimulates students' interest in learning and improves the teaching level.

## 1. Introduction

With the continuous development of information technology, the popularization of multimedia technology and Internet, people's work, life and learning have been deeply affected, and new concepts such as e-Business, e-Marketing, e-Library and e-Learning have emerged. Networked teaching is the product of the modernization of education in the information society. It is an activity of learning through the Internet or other digital content. It makes full use of the learning environment provided by modern information technology, which has a new communication mechanism and rich resources, and achieves a new way of learning. Network-based teaching can not be separated from the support of good hardware facilities, but more importantly, it is necessary to provide learners with well-designed and perfect network courses. Network course provides teaching content for network education, and is the most important and direct learning object for learners in network education.

The network simulation examination system of tour guide qualification certificate course combines traditional teaching methods with modern information technology to create a more convenient and fast learning environment for students and greatly improve the teaching level of Xi'an Eurasian College.

## 2. Present Situation of the Teaching of the Tour Guide Qualification Examination.

In order to promote and develop our vocational education, Higher Vocational Tourism Management Major implements "double certificate" education, requiring students to obtain "two certificates" when they graduate, that is, they must obtain a diploma and a kind of professional qualification certificate related to tourism, such as tour guide certificate, purchase guide certificate or cross-industry qualification certificate. At present, the main problems in the teaching of tour guide qualification certificate in Xi'an Eurasian College are as follows: [1-2]

### 2.1 Fill-in Education, Less Interactive.

All the courses of tour guide qualification certificate, such as "Basic Knowledge of National Tour Guide", "Tourism Regulations", "Tour Guide Business", "Shaanxi Tourism" and "Simulated Tour Guide" in the oral part, are mainly taught by classroom teachers, while students do simulation questions before the examination, with poor interaction.

## **2.2 Traditional Teaching Methods and Single Means.**

The traditional teaching method is a book, a blackboard, a piece of chalk. The teacher talks in the classroom and the students listen carefully. At present, the training and teaching of tour guide qualification certificate is faced with the difficulties of less hours, great difficulty, poor cultural foundation of students and lack of interest in learning.

## **2.3 The unsmooth Channel of Information Release**

At present, there is still a period of time for students to go to the exam after they have participated in the training of tour guide qualification certificate. During this period, students review freely without teacher's guidance. Only individual students buy simulation questions sold in the market. Students can not get simulation questions through effective channels for training. Lack of effective means to evaluate the effect of review.

## **3. The Necessity of Implementing Networked Teaching**

With the rapid development of Internet technology in the 21st century, network teaching has become an important trend in the development of contemporary education. It is an urgent task to make full use of information technology to change traditional teaching.

### **3.1 Modernized Teaching Means, Information Resources Development and Application are Important Indicators for the Evaluation of Tourism Management Specialty in Higher Vocational Colleges.**

In the evaluation of Tourism Management Major in Higher Vocational colleges, the development and application of modern teaching means and information resources are two important indicators. At present, there are still some deficiencies in the development and application of information resources and modern teaching means in our institute. The network simulation examination system of tour guide qualification examination course is a typical development and application of information resources, which can fill in the deficiencies of my major in this respect.

### **3.2 Network Teaching is the Guarantee of Improving Students' Teaching Quality.**

In order to help students self-study, increase students' independent practice opportunities, and improve the pass rate of the tour guide qualification examination, we put forward the development idea of the network simulation examination system of the tour guide qualification examination, through which students can easily access and use at any time and anywhere. Because of these conditions, students can start self-study according to their own situation and complete their learning tasks independently. It also trains students' solid computer use ability, which fully reflects the advantages of information-based teaching.

### **3.3 Eurasian Academy's Campus Network Provides a Guarantee.**

Xi'an Eurasian College has built a campus network covering the whole school, which provides hardware support for the network simulation examination system. By making full use of these resources and information technology, it has improved the standard of running my major. [3]

## **4. Network Teaching Platform for Tourism Management Course.**

### **4.1 System Implementation Environment.**

#### **1) Overview**

This system is an application system of B/S structure. The most extensive information resource sharing and commercial application based on Internet for all authorized users of Internet.

The database management system selected by the system is Microsoft SQL Server relational database, which ensures the reliability and stability of the system. The application of database connection technology such as ADO and ODBC ensures the efficiency and security of database

access.

The application of ASP, NET, ActiveX, JavaScript, HTML and other technologies makes the application software more modular and greatly improves the scalability and compatibility of the application.

## 2) Network structure

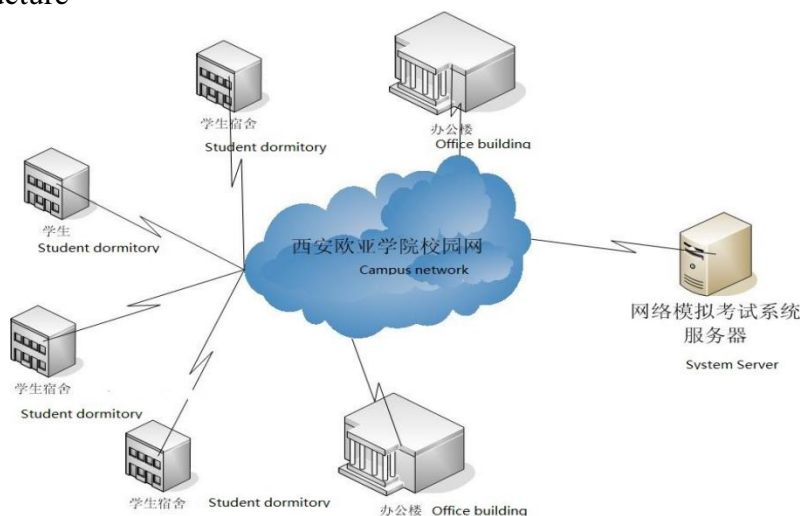


Figure. 1 Network Structure Diagram of System Application

## 4.2 System Function Description and Characteristics.

### 1) Question entry:

A large number of real and simulated questions of the tourism certificate qualification examination course are input into the system, and a large number of questions bank of the tour guide certificate examination is formed through continuous accumulation. To maximize the sharing of information, it is convenient for students. The system supports many types of examination, such as single choice, multiple choice, filling in the blanks, connecting lines, short answer, etc.

### 2) Random generation of test papers:

The system allows to set the difficulty of a test paper, and then the system automatically selects some questions randomly from the test database to form a test paper according to the settings.

### 3) Manual generation of test papers:

The system also allows each test question to be set manually, which is convenient and flexible.

### 4) System management:

Users of the system are divided into administrators and candidates. Candidates login through users and passwords to ensure the security of the system.

### 5) Question analysis:

Each test question has its own standard answer. After the examination, the examinee can easily check the answer, and the learning effect is better.

### 6) The main contents of the course are as follows:

The key content of the tourism certificate qualification examination course is input into the system in time, so that students can grasp the important content of the examination in time.

### 7) Human-computer interaction:

Students can give answers and analysis to each test question, or submit the system after completion. The system makes overall analysis and has a good human-computer interface, which achieves convenience and efficiency.

### 8) Prompt release of information:

Teachers can input simulated questions into the system according to the latest information of the annual tour guide qualification examination, so that students can access the system at any time and have a complete grasp of the latest situation.

### 9) Scalability:

Other courses can also use the system, so as to achieve the development of one time, multiple

courses use, maximizing the savings of funds. [4-5]

## **5. Conclusion**

This paper makes a comprehensive analysis of the network examination system of tour guide certificate, introduces the design circuit and function module of the network examination system built by ASP and SQL Server, and puts forward the implementation technology of developing and designing the network examination system. The application scope of this examination system is not only limited to the school LAN, but also extends to other industries. Realizing the standardization and networking of examination system is an important development direction for improving the management of education system and even all systems in the future, which will help to improve the rapid development of high-tech information technology in China.

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