Design of Web-based English Learning Support System

Chang-an ZHOU

School of Economics and Management, Beijing Forestry University, Beijing, China, 100083

Keywords: Design, English learning, Web-based English learning support system.

Abstract. Web-based learning support system is a kind of teaching system, emphasizing on learners' learning as the center, creating a stimulating active learning environment for learners. In the process of learning, reasonable allocation of resources and the appropriate teaching strategy provide comprehensive support and help for learners' learning. Students complete the learning process mainly through selecting online courses and resources and answer to the teachers' questions. Web-based English learning support system starts from the needs of English learners, and is an integrated teaching system designed under the guidance of teaching design thought in the priority of learning. English learners learn English conveniently and easily in a musical environment by means of learning resources and tools provided by a number of teachers.

Analysis on the Learners in the Web Environment

Learners play different roles in different network environments, they can quickly convert studying virtual scenes without direct face-to-face exchange of learning. Learners can completely release themselves, expose defects of learning, learning style fully play and perfect, of course, there are hidden distorted personality reflected, also the learner's personality, way of thinking and attitude towards learning happens exerts a profound transformation. Learners in the Web environment basically have the following some needs:

1. Learners have the needs for evaluation.

Learners' achievements of learning new knowledge are closely related to the knowledge, skills, attitudes that they learned before. But even if he is an active learner, he does not very understand his condition. Before learning the new knowledge, they tend to expect some specific data obtained in tests in order to make sure the next target of study and methods on this basis of the data.

2. Learners need to have a clear topic Web learning environment.

Web learning environment with rational layout and distinct themes can build a learning atmosphere, having a subtle impact on learners.

3. Learners need the help of tools.

In the process of learning English, learners will encounter many problems, for example: you will meet new words, don't apply a sentence pattern, don't understand a certain grammatical rules etc. If the learner can query at any time to tools providing these knowledge, which will greatly accelerate learning progress, clear the learning disabilities.

4. Learners have questions need to be answered.

In the Web learning environment, learning is given priority to individual learning. It is inevitable to encounter problems in the process of learning. When learners can't solve problems through their own efforts, they need to seek the guidance and ask for help.

5. Learners need to choose the learning resources.

Learners' personal background, starting point of learning, learning ability and cognitive structure is different, which asks learners to trade-offs in numerous learning resources and make comparison, and then choose suitable learning resources according to their characteristics.

Introduction of Web-based English Learning Support System

Web-based teaching system or study system at home and abroad exist the defects in the design of learners' autonomous learning and active learning support. Thus it causes the effects of teaching and learning online is not ideal. Aiming at this situation, we put forward a new theory model of Web teaching System, which is the web-based learning Support System model.
We can see the model of the teaching structure of the Web-based English learning support system from the chart 1. Web-based learning support system is a kind of teaching system, but it is different from the current Web teaching system, which put more emphasis on the learner centered, sticks to building active learning environment for the learners. In the process of learning, as the external cause, it provides comprehensive support and help for learners through the reasonable allocation of resources and the appropriate teaching strategy. From learners' perspective, the concept of learning support system more fully expresses the purpose and nature of teaching system under the guidance of the constructivism teaching system. The following table 1 is the means of learning support.

![Teaching structure mode of the Web-based English learning support system.](image)
Consideration and Improvement of Web-based English Learning Support System

Building learning environment close to the reality and transcend it, paying attention to the development of self-learning habit and ability. The meaning of design and development of Web-based learning support system is breaking the traditional teaching mode and using the advanced multimedia network technology on the basis of the advanced education theory to create adaptable learning and educational environment for the learner's personalized autonomous learning, and provide a full range of support for online learning, which helps learners to achieve learning goals. The final goal is to cultivate autonomous learning habit and ability of independent learning through the learning activities under the network environment. The core of Web-based English learning support system is dynamic adaptability of different learners; the key is the intelligent choice of learning strategies and learning strategy to organize the implementation.

Web-based English learning support system must establish policy database, repository, and basic information database, offer a variety of interactive methods, fully collect user information (such as age, educational background, professional, preferences etc.). It learns the user's knowledge, ability and learning objectives through diagnostic evaluation; monitors the individual learning process through the log and access records, communication records and obtains user’s data to carry on the comprehensive analysis, finds out the intrinsic characteristics, and then choose matching learning strategy, adjust the corresponding learning function and allocate resources, form an optimal learning environment to every individual, and guide students in the correct way and method to carry out the learning activities.

Summary

Web-based Learning Support System is learning preparation and the Learning process under the Web environment, which provides learning individual guidance, learning tools and the Learning environment for learning individual, and it supports the cognitive process of personalized service System. It emphasizes to set learners as the center, promoting learners’ learning initiative and situational society as principles, which helps to build support of the material conditions of the learning process, learning resources and non-material elements (teaching mode, learning strategy, learning environment etc.) in order to build an active Learning environment for learners.

Reference