What Network Learning Resource Center means to school development on education

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***Abstract ¾** The rapid development of internet not only has changed the representation of knowledge but also has changed human information interchange, which also makes great impact on the traditional education in Taiwan. Recently each county government in Taiwan has respectively established the network-based learning information center to provide teachers, students and student's parents with learning environment platform for the purpose of achieving the learning goal of web-based learning, WBL. Thus, the purpose of this study was to create the functions and learning activities of web-based learning in order to present these network-based learning information centers with feasible strategies and practicable methods.*

INTRODUCTION

The rapid development of internet, which changes the way of information using and the representation of knowledge has made the society and lifestyle a big change as well as brought impact on education, especially traditional classroom teaching ways. Thus, how to promote educational quality has turned to be a big issue for education workers to explore. By implementing "The Basic Structure of Information Education Project" in 1999, the Ministry of Education in Taiwan invested more than NT$ 6.4 billion to establish computer labs available for internet surfing in each elementary school, in the hope of providing each student with one computer and increasingly encouraging every elementary school teacher to foster basic ability of information technology. According to the project, each county in Taiwan will respectively set up material resource center not only to achieve the goal of shared education resource, balanced education resource between cities and countries but also to provide TANet for teachers to retain teaching resource from each resource center.

THE CHARACTERISTICS AND FUNCTION OF INTERNET

It has been 30 years since ARPANET lab project started to connect with Internet and developed the characteristics of boundless, restless function, diversity of network connecting and the consentaneous service of TCP/IP. As it goes by, a number of network service functions have successfully presented, such as Electronic Mail, File Transfer, Remote Login, Netnews, BBS, Distance Education, IRC (Internet Relay Chat), Gopher, Wais (Wide Area Information System), World Wide Web (WWW), and Archie. By the end of the year 1999, there are approximately 179. 36 million computers working on Internet and 131.55 people taking advantage of Internet [1]. The rapid grow of population using Internet bring great commercial profits and help increase the output of a diversity of softwares, which also turns to make Internet more significant. In recent years, more advanced functions like on-line require, e-mail, advertisement marketing, electronic shopping, and on-line conference have been innovated, resulting from the common use of Internet and the advance of information technology. In the case, human learning should adjust and make change to cope with the commonly utilizing of Internet.

THE CHARACTERISTICS OF NETWORK LEARNING ENVIRONMENT

- Unfixed spot, amount of time of individual learning or cooperative learning of team groups.
- On-line diffused spontaneous learning with the limit of time and space.
- To provide boundless interaction of learning.
- To provide the supplementary learning tools and environment, such as data searching, information communication, shared information.
- To support the functions like on-line - interaction, discourse, communication and discussion as well as video conferences.
- To present multimedia and learning environment to elevate the leaning interest and motivation of the learner.
- To be the electronic support system of performance.
- To be the intelligence tool of knowledge construction.

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NETWORK-BASED LEARNING INFORMATION CENTER

- To cultivate talents of high quality in application to computer science.
- To strengthen fundamental construction of information administration to support teaching and improve quality.
- To build up an excellent, fast and convenient learning environment of information, and strengthen teachers' and students' computer science by integrating it to every learning area.
- To ensure the completeness of data and strengthen the secure mechanism of telecommunication to prevent from the intrusion of hackers by using secure technology and digital licenses.

USING NETWORK LEARNING RESOURCE CENTER FOR TEACHING (INSTEAD OF CONCLUSION)

The technology of digital libraries, multimedia teaching materials, Electronic Commerce and personal information management will lead to a new perspective on education in the near future. Therefore, the strategies to integrate Electronic Commerce to school education would be as follows:

- **Cooperative Learning**: The opposite concept of Cooperative Learning is Isolated Learning. The traditional CAI (Computer Assistant Instruction) is that kind of learning. In order to make up the weakness of Isolated Learning: lack of learning mates, losing interest and motivation easily; and while facing difficult contents of curriculum, lack of opportunities and companies for discussion, learning process might stop, due to the obstacle. However, WWW just can do it by the convenience of on-line environment.
- **Individualized Flexible Learning**: The way of on-line learning is quite suitable for the learning at the right time. Users can learn well by their own pace, ability and experience.
- **Quantitative Teaching Log and Mode of Analysis**: In hyper-media, on-line learning environment, every student's learning behavior will be taken down completely and factually so that the learners can make a reflection on learning strategies and situation. Moreover, they can use these data to adapt teaching materials and pedagogy to make students' learning more effective.
- **Socialized Learning**: Internet can shorten the gap between people. By establishing virtual communities, people of all ages, culture, background and nations can discuss together. We can realize what others think and how come? An on-line community can be referred to. That is Kuai-guan Community. (http://163.23.77.129/support)
- **The Simulation of Real Situation**: The simulation of real situation is to save the cost on training. In addition to lower the accident of wrong operation, it is important to cause right reaction and judgment in the real situation by practicing. To make use of WWW an operating platform in simulation is applying to the experiment of natural science. Learners can serf Internet to go on simulation or real experiment.

CONCLUSION

Although network-based learning resources center can gather all kinds of resources, while working, we will still encounter some problems, such as, losing the way of learning, overloaded recognition, learning management and technological design of interface, especially metadata setting, criteria for data setting, integration of information by crossing platform, data sorting and searching, furthermore, the establishing of the evaluation system, these all test if the center can renew resources and keep them updated and effective. Information technology has changed the way of life and work. Digitalization has changed merchandises and the form of service. And Internet has changed the way of communication. With the research and development of the web-technology, learning resources become diversified and abundant. Therefore, in digital world, if we meet the habits of users, such as teachers, students, parents, administrators, integrating related knowledge, applying scaffold theory, setting up data searching and reproduced formula, providing students with active individualized service, then we can make learners a real principal part of learning, realize self-value of constructing knowledge, and strong and integrative functions of network-based learning resource center.

REFERENCES

Place references in separate section at the end of the document, do not footnote references. Refer simply to the reference number, as [3] or [5]-[8]. Do not use "Ref. [3]" or "reference [3]" except at the beginning of sentence: "Reference [3] shows….". Provide up to five authors' names; replace the others by "*et al*." Do not put figures or anything else after the references.

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