ABSTRACT

With the rising of the Internet and software technology, the e-Learning has become a trend gradually. The more technical capabilities of e-Learning platform are mature with day by day, and the more records and analyses of learners' e-Learning paths are emphasized by savants. Because e-Learning not only can eliminate time and the spatial limitations, but also can record the learning information of learners to system's web log. However, most of the web logs have huge useless information, so teachers can't use web log to observe the behavior of learners immediately. Moreover, most of e-Learning platform don't provide the tools of evaluation in real time, so teacher can't investigate the status and details of e-Learner. This research adopted the concept of Analytic Hierarchy Process, Data Warehousing, and Fuzzy Theory, and we combine the web server log and database of Waltz E-Learning Web Site to construct a system to assist teachers in making decision. We analyzed status of e-Learning of learners via this system easily. This research used programming language of Active Server Page, provided teachers to observe and analyze in internet by browsing in the web page, and let teachers also get more suitable, thin, and readable information.

Keywords: e-Learning, learning path, Analytic Hierarchy Process, Data Warehousing, Fuzzy Theory
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