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KEY WORD: WWW / HTML / CGI / UNIVERSITY ENTRANCE EXAMINATION

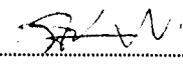
CHARUWAN CHUAYDED : A DESIGN AND DEVELOPMENT OF WWW FOR INFORMATION COMMUNICATION. THESIS ADVISOR : ASST. PROF. SOMCHAI PRASITJUTRAKUL, Ph.D. 66 pp. ISBN 974-637-224-6

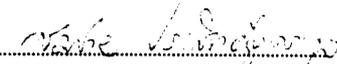
This thesis presents a design and development of World Wide Web for information communication by using the University Entrance Examination as a case study. One part of the information serviced consists of the examination procedures, rules, and regulations, examination statistics, and other supplement information. This information was converted to HTML documents having links between them in the form of a hypertext. Another part of the information serviced consists of announcements of examination places and examination results which has a great deal of data (more than ten thousand records or an equivalent of sixty megabytes) where all the accesses are done via examination seat numbers. The data are kept in a file with indices organized as a two-level tree structure which yields only three disk accesses for any record retrieval. The retrieval program is connected to the Web server program using the standard Common Gateway Interface (CGI). In addition, there is a JavaScript program running on the user's Web browser to validate the entered examination seat number in order to lessen Web server load. Experimental using the WebBench program showed that the average response time is 160ms per request.

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