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| Thesis | Development of Educational Research Dictionary Program |
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ABSTRACT

The purposes of this study were to develop an Educational Research Dictionary Program and to assess the quality and usability of the program based on the opinion of experts and users respectively.

The process in developing the program consisted of 2 main steps which were (1) collecting educational research vocabularies and (2) designing a database system. The 5 steps in designing the database system were 1) Database Initial Study, 2) Database Design, 3) Implementation and Loading, 4) Testing and Evaluation, and 5) Operation.

The sample of program development were 75 selected educational research vocabularies while the sample in assessing the quality of the program consisted of 3 experts in multimedia design, 3 experts in educational research, and 3 experts in application program. In addition, 30 volunteers who were interested in educational research participated in testing the usability of the program.

This program used Microsoft Access as a Database Management System in managing a vocabulary database and employed Visual Basic.NET as a programming tool in developing applications. Other two instruments were a questionnaire for assessing experts' opinion on the quality of the program and that for measuring user opinions on the usability of the program.

The results of the Educational Research Dictionary Program Development could be concluded as follows:

1. Educational Research Dictionary Program has provided various searching tools for users which are (1) Thai and English search, (2) category search, (3) index search, and (4) keyword search. The output of searching consists of the meaning of a look-up word in Thai and English, The author and

additional explanation. Besides, animation providing an illustration may be presented for some words. Users can print a word with its corresponding meaning through a printer as well.

2. In assessing The quality of Educational Research Dictionary Program based on the opinion of experts, the presentation and the content were at an excellence level but the usability of the program was at a good level.

3. The usability of Educational Research Dictionary Program based on the opinion of volunteers who were interested in educational research was at a most level.