

WEB BASED QUERY GAME DEVELOPMENT

A Undergraduate Thesis
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Bachelor of Science in Information Technology

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ABSTRACT

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The Web Based Query Game system is an educational learning tool that can help the students particularly the Information Technology (IT) and Computer Science (CS) students with their studies in Database Management System (DBMS) subject. The study helps the students to assess their own knowledge and understanding of the topics and lessons included in the system.

The researchers used the Dynamic System Development System (DSDM) as a paradigm of the development of the system. DSDM consists of the following phases: Feasibility Study Phase, Functional Model Iteration Phase, Design and Build Iteration Phase and Implementation Phase.

The software was developed using XAMPP v3.2.1 (Cross-Platform, Apache MariaDB, PHP and Perl) HTML as the mark-up language, PHP and JavaScript as the scripting language and Sublime as the code editor. Adobe Photoshop CS6 was used to enhance the design and logo.

The system was tested and evaluated by evaluators, one hundred ten (110) Information Technology (IT) and Computer Science (CS) students and ten (10) Information Technology (IT) experts based on the given criteria: Functionality, Reliability, Usability, Efficiency, Maintainability, Portability and User-friendliness. The overall rating of the study was "Excellent". The system fully meets and passed all the

given criteria in the evaluation and exceeds all the aimed features and functionality as well as the requirements and its objectives.

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