ABSTRACT

With the advancement of information communication technology in developed countries, the education field should take advantage to upgrade their learning and management techniques. The aim of this study was to design and implement a web-based thesis management system with a plagiarism checker. This work contains the introduction to the thesis management and the description of the used methodology. The understanding of the development tools directly affected the quality of the website. The website which was built in this project offered a high performance, secure, stable and an easy-to-maintain environment. This system was built on the materialize CSS framework with HTML and CSS, PHP and JavaScript and jQuery was used to design the server-side scripts. The Levenshtein distance algorithm was adopted and used to describe how the embedded plagiarism checker works. The Levenshtein distance algorithm has been used in spell checking, recognition, DNA analysis and plagiarism detection. The back-end houses the data storage area which is designed with MySQL database management system. The web server which includes the scripting engine that processes the script and carries out the actions specified by the user through a browser application is the XAMPP (cross platform, windows, apache MySQL and PHP) server. At the end of this study, a web-based thesis management system was built and implemented.