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TITLE: Development of Computer-Based Library System for Divine Word College of Laoag.
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Abstract: The primary purpose of the study was to develop a computer-based library system that will be able to provide complete, accurate, reliable, timely and secured library services for the Divine Word College of Laoag.

To prove thoroughly the intended shift from the present library process of the Divine Word College of Laoag to an automated system, the researcher took a step further by expanding the scope of the proposed system to include data storage and retrieval as well as ad hoc queries and report generation utilities.

The study involved the library users and staff of the Divine Word College of Laoag. All the seven (7) librarians were drawn purposively while three hundred forty nine (349) library users were at random out of 2,710 library users for the First Semester, School Year 2006-2007. The student library user clustered by school. The number of sample respondents was determined using the Slovin’s formula, with a margin of error of 5%.

The Research and Development (R&D) methodology was used in this study. Supplementary data pertinent to the study were gathered through documentary analysis, personal observations and casual interviews. Library reports, book cards and card catalog were also reviewed and analyzed to ensure that corresponding features are properly integrated in the system’s design.

Validation of the proposed computer-based library system was done by tapping IT experts who are exposed to systems development as well as the library staff who know the technical know-how of library services.

The findings of the study proved that an assessment of the present library process of the school could provide a valid
ground for the development of a computer based library system. The results obtained in the survey revealed that the current library process of the school is satisfactory, which means that there are still provisions to be enhanced for better library services of the school in terms of completeness, accuracy, reliability, timeliness and security of library information.

Using the results of the survey as basis, the proponent worked out a corresponding design for developing an effective computer-based library system. Features such as graphical user interface (GUI). Accessibility, quick search utility, security tool and fast report generations were integrated in the program design.

Preliminary validations, testing and revisions were made to fine-tune the system before finally submitting it for further validation. A panel of experts in the field was requested to undertake a thorough evaluation of the proposed system. The validation results obtained showed that the proposed computer-based library system is rated as highly valid, hence, can be adapted for implementation by the institution.