DEVELOPMENT OF A CLASS SCHEDULING SYSTEM
FOR DE LA SALLE UNIVERSITY- DASMARIÑAS

A Research Project

Presented to the Faculty of the
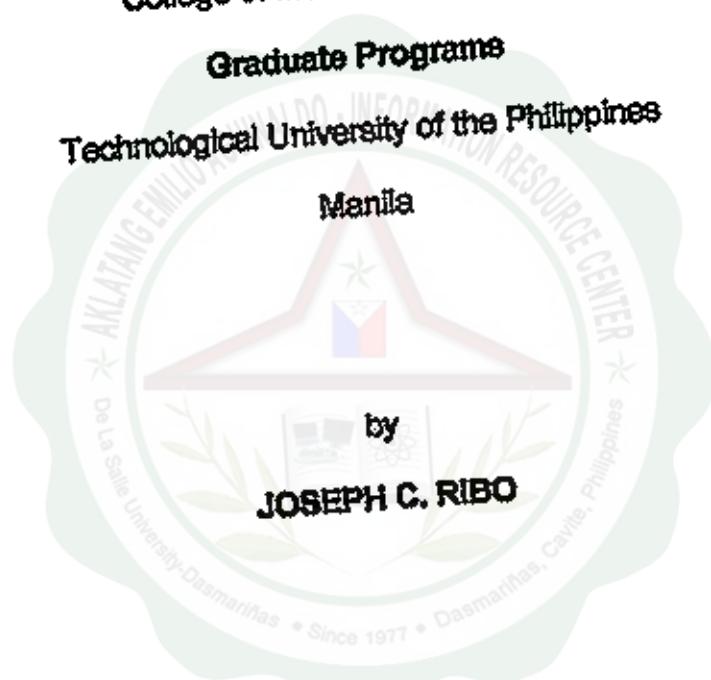
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ABSTRACT

The purpose of this study was to develop a system called Expert Scheduler that could be a useful tool for developing a computer-based class scheduling system for De La Salle University – Dasmariñas (DLSU-D). It aimed to generate reports on class schedules by section, by subject and by room as well as the list of vacant rooms available which may be used for remedial and make-up classes and other activities.

The Expert Scheduler is a dynamic class scheduling system, which features a revolutionary multi-pass random assignment algorithm of schedule generations, without violating the scheduling rules set by the administrators of De La Salle University – Dasmariñas. It has multiple Database Management System and Information System functions such as adding a new data entry, editing or deleting existing data, viewing class schedules and searching of vacant rooms. The system provides two different levels of user access, one can only view and print reports while the other user (Academic Programmer) has full access to the system. It also provides security measures by prompting the user to enter a valid username and password. To create a new schedule, the user of the system will just input the list of colleges, departments, rooms, subjects, programs, and the number of sections in each program per year level. Once completed, the software will now be in-charge in assigning subjects by random assignment scheduling. The expert scheduler is also capable of generating

printed reports on class schedules by section, by subject and by room as well as the list of vacant time and rooms available.

'Based on the results of evaluation, in terms of functionality, content, reliability, availability, maintainability and saleability, the overall mean shows an outstanding rating. Thus the following conclusions were derived: The developed expert scheduler software for De La Salle University – Dasmariñas, maximizes the use of university resources and provides accurate and timely class schedule; the software is functional, reliable, usable, efficient, maintainable and portable, as planned; it has outstanding performance and highly acceptable to the end-users based on the results of evaluation conducted.
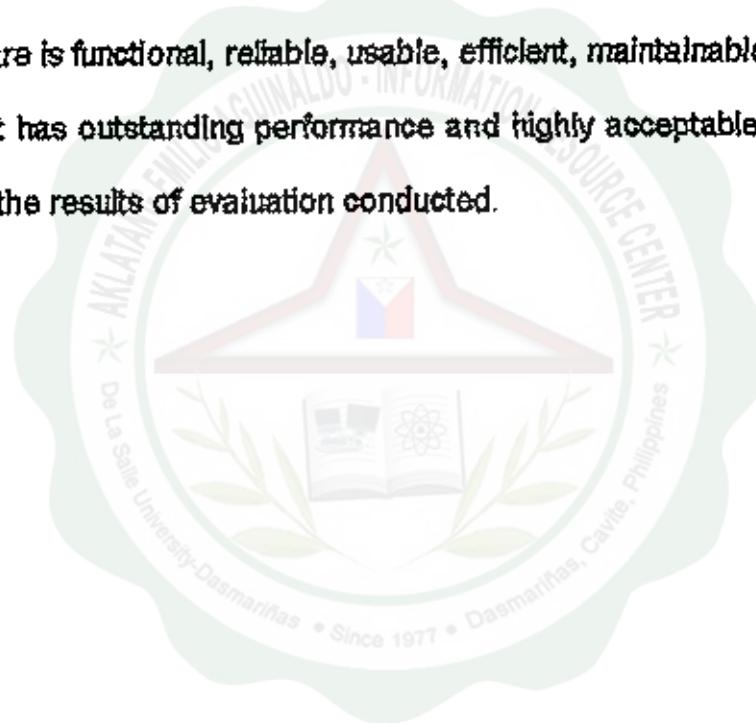
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