

A Distributed Database System for Record Bars

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**An Undergraduate Special Problem Presented to
the Faculty of the Department of Mathematical Sciences
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AKLATANG LIMELIC AGUINALDO

ABSTRACT

Name of Institution: De La Salle University - Dasmariñas

Address: Dasmariñas, Cavite

TITLE: A Distributed Database System for Record Bars

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OBJECTIVES OF THE STUDY

A. GENERAL

The study aims to develop a Database Management System that supports multimedia functions, particularly playing sounds, and a distributed database.

B. SPECIFIC

1. To develop a sample of a networked application in the form of DDBS.
2. To develop a system that can be used in any record bar. The record bar does not pertain to a particular establishment.

SCOPE AND COVERAGE

The study focused only on the basic information about distributed databases and some basic networking. Other advanced networking topics were not included. Subjects, other than those that involved Distributed Database systems, were not covered by the study

METHODOLOGY

The author used the research method to gather all necessary materials that will be used throughout the study; books, theses, magazines, etc.

The prototyping method was used in developing the system.. Different prototypes of the system was developed to determine the desired characteristics of the system.^{2/} The system was developed under the Windows 95 environment on a generic 5x86-133 computer and runs only on 32-bit windows based operating systems(95, NT).^{2/}

OUTPUT OF THE STUDY

^{1/} The DDBS for record bars was developed to allow customers of record bars to do a fast search and retrieval of information that a customer usually wants when looking for an album or a song. The system has two basic improvements on existing methods of searching (an album in a record bar). First, the customer/user can search for a song or an album in just a matter of seconds. Second, after finding the item, the user/customer can play a sample of a song that was selected.^{1/}

CONCLUSION

Eventhough the system was not thoroughly tested in an actual networked environment, the basic functions of the system worked, thus the main objective was met. The system was able to retrieve the needed informations and was able to play a sample sound of a song. The development of a distributed database system that has sound playback capabilities was successful.

Since the system was tested on an actual networked environment and the basic functions of the system worked under such environment, the specific objectives was attained. First, the author was able to develop a networked application in the form of

DDBS since the system works and is a distributed database system. Second, the author was able to develop a computerized system that could be used in record bars.

RECOMMENDATIONS

Although the system was tested in an actual network environment, the testing is not thorough. Other researchers should perform a thorough testing to see if the system is bug free. The system can further be improved by adding other functionalities such as music videos.

It is also recommended that further studies should be undertaken to address the problems inherent to such systems.

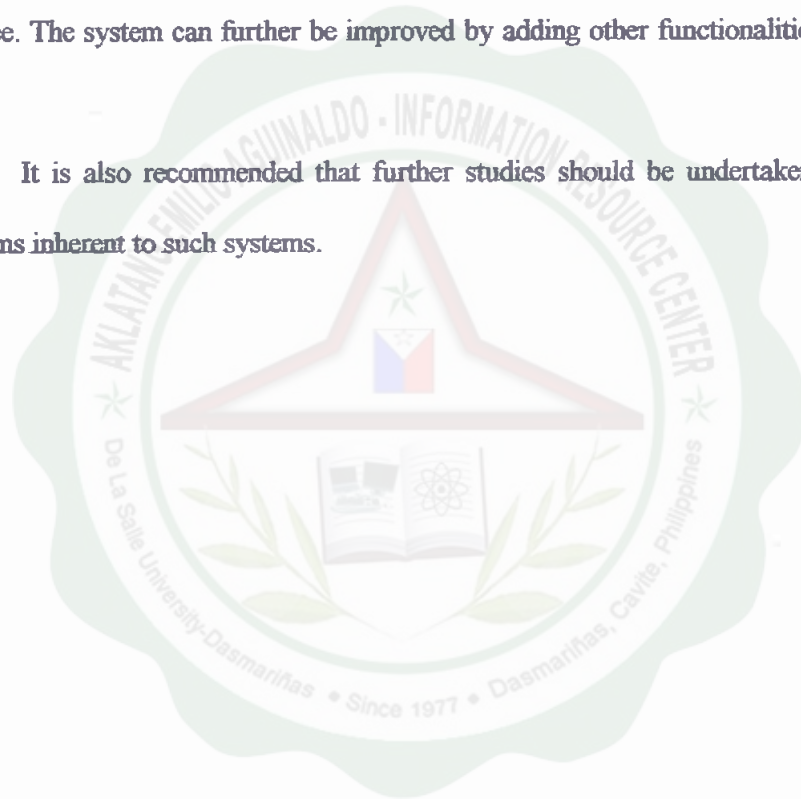


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