

A PROTOTYPE DATA BASE
FOR COMPUTER SCIENCE
GRADUATE ADMISSIONS

by

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A MASTER'S REPORT

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requirements for the degree

MASTER OF SCIENCE

Department of Computer Science

KANSAS STATE UNIVERSITY
Manhattan, Kansas

1980

Approved by:


Major Professor

SPEC
COLL
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1980
R42
C.2

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 - a. all
 - b. area
 - c. date

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- a. all
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- c. date

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Acknowledgments

CHAPTER I

INTRODUCTION

1.1 BACKGROUND

This report describes the automation of file handling for graduate admissions to the Computer Science Department.

At present the graduate admission system is done manually. A master card is filled out with information from the credentials submitted by the student. The student master cards are kept in four different files:

- a. Pending File - if applicant lacks some of the required papers.
- b. Accepted File - if applicant meets all the requirements for admission.
- c. Rejected File - if applicant fails to meet some of the requirements.
- d. Graduated File - once the student is done with his program.

Student master cards are kept in card boxes and their credentials are stored in filing cabinets. Figure 1.1 shows a sample student master card. The information on the left side of the card pertains mostly to student credentials.

NAME (Last) Rebong - Alfonso, Jr.
ADDRESS 1700 N. Manhattan #23
Manhattan, Ks. 66502

NEED ASSISTANCE YES NO

KSU FORM 6-11-78 NO if no assistance
CS FORM 6-11-78

TRANSCRIPT (2 copies)
University of Sto. Tomas
()
()

RECOMMENDATIONS Dulay 5-10-78
Furtagnio 5-13-78
Reyes 5-10-78

GPA BS/EI.E. 3.0
GRE 477, 607, 538
UG COURSES

LOCATION - (KSP) KC LEAV NCR
LEVEL - (MS) PhD Special
STARTING - (FALL) SP SU 1978
STATUS - Missing letter sent 7-15-78
To Committee 7-30-78

To Xerox
To Grad. Sch. 8-3-78
Status letter 8-3-78

TOEFL 550 HEALTH YES
\$ (6,500) YES

RECOMMENDATION: (Accept) Reject Probation
Special (Provisional)
TA RA

DATE RECEIVED 6-11-78
EXPERIENCE 420, 405, 560

STUDENT MASTER CARD

FIGURE 1.1

The data on the right side deal with application status, committee recommendation, etc. These information are described in detail in Section 2.2.

1.2 OBJECTIVE

To gain practical knowledge in the use of interactive data base system, a study regarding the automation of file handling for graduate admissions to the Computer Science Department was conducted.

It is expected that the knowledge and experience gained from this study will be beneficial for the author's work in the development of different interactive data base systems for the Philippines Ministry of Agriculture.

1.3 Overview

This report shows the design and implementation of a prototype data base management system. Information from the data base may be used by the faculty committee members to keep track of student status and by the department secretary to answer queries about students.

The automated data base system is implemented as an interactive system using low cost software and hardware currently available at the Computer Science Department. The SCAMP data base management system (DBMS) on Interdata 8/32 running under the MTR 8/32 operating system was selected to implement the prototype data base system.

SCAMP is an acronym for "System for Command Accounting and Monitoring of Projects". It is a DBMS designed to provide users with timely and easy access to accurate information. SCAMP comes from the Manpower and Administration Systems Directorate (code 42) of the Navy Regional Data Automation Center, Washington, DC. It was made available at the Computer Science Department free of charge.

SCAMP was chosen to implement the prototype data base design in this report because it is currently available in the Computer Science Department. Another reason for the selection of SCAMP was it is a real DBMS which can support multiple data bases with several desirable capabilities. The following accolades are excerpted from the SCAMP manual: