

# **Design of an On-Line Library Circulation System.**

Adeyekun, Basiru Gbolagun

M.Sc. Computer science

Department of Computer Science

Obafemi Awolowo University, Ile Ife, Nigeria

1987.

**Abstract:**

The work reported in this thesis is on the design of an on-line library circulation system for possible implementation at Hezekiah Oluwasanmi Library, University of Ife, Ile-Ife. The problems associated with orthodox manual library circulation processes were identified by studying library activities and functions in the Hezekiah Oluwasanmi Library. These problems include limited and restrictive information base of the manual library record keeping; undue user and staff time-input in book location and borrowing; inconvenience of processing and correlation of extensive manual records for circulation control; and human factor in penalty administration on book defaulters.

This project exploits the tremendous capabilities of the computer for the development of an on-line library circulation system to solve the problems identified, and to enhance library circulation operations. An efficient and dynamic software has been developed for the on-line library circulation procedures. The design has been tested on an Eclipse C-150 Data General mini-computer and a TRS80 Model II micro-computer for later on-line implementation on a multi-tasking micro-computer.

The design herein reported provides adequate and timely information which can be put to a variety of uses such as library clearance and security, enforcement of accountability, relief of users and library staff of routine clerical procedures, and bringing about an effective circulation system.

**Keywords:** On-line library circulation system

**Supervisor:** S. B. Jaiyesimi

184p