AUTOMATED SYSTEM OF LIBRARY COLLECTIONS APPLICATION AND FUTURE DEVELOPMENT

This article mainly introduces the book management system, which is designed for readers and librarians to use the book system more conveniently. Hence the name Automated system of library collections

INTRODUCTION

The library has a rich collection of books and a complete range of varieties, but with the rapid increase in the amount of information processing, there are more and more tasks, comprehensive, advanced, and efficient. Pure office software can no longer meet business needs in terms of accuracy and timeliness. Therefore, it is very important to develop a library software with a friendly interface and easy to operate for automated processing. The purpose and significance of this system is to manage library information, standardize, systematize, and program library management, and avoid book management. The arbitrariness of information processing improves the speed and accuracy of information processing, and enables timely, accurate and effective inquiry and modification of the book situation. This book management information system takes "peopleoriented" as its service tenet to improve the quality of service to readers.

I. Demand analysis

The overall goal of system development is to achieve systematization, standardization and automation of internal loan management. It is possible to register books, that is, the basic information of books (such as book number, book title, author, etc.) is stored in the database in advance for later retrieval.

Ability to register readers, including recording the borrower's name, ID, gender and other information.

Provides a convenient query method. For example: search for books using information such as book title and book number, and reflect the book.

Provides the ability to destroy old books and revise the database in time for the days of obsolete, damaged or lost books.

Administrators can also manage reader information and provide different functions that can be authorized according to different job functions.

Provide relatively complete error control and user-friendly interface to avoid inaction as much as possible.

II. FUNCTIONAL ANALYSIS

The system has two users, readers and administrators.

Reader management: establishment, input, modification and query of reader information, including name, gender, phone number, etc.

Book management: the formulation, input, modification, and query of basic book information, including book number, title, author, and inventory, etc.

Borrowing management: including borrowing, returning books, borrowing events, returning events, and borrowers.

System management: including user rights management, data management, and personal information management, etc.

Readers can manage their personal information, complete the login registration function, view books, and borrow and return books after logging in to the system.

After the administrator logs in to the system, he can modify his personal information, book information and reader information. Manage the system as a whole.

III. Advantages and development prospects

The Automated system of library collections is designed to give people easy access to their library accounts, where they can track the availability of desired library books and reuse any book item.

In addition, the Automated system of library collections allows users, library staff and administrators to access their accounts from smartphones other than computers. If not, readers can have other books in the library they want.

Capital investment can be saved by replacing traditional computers with smart devices like smartphones, tablets, etc.Once library members upload data into the database, they can be quickly accessed.

Therefore, the Automated system of library collections is a system that can save time and cost, and can be well developed in the future.

This system is best suited for schools, colleges, universities, government, private and autonomous libraries.

Hu Yuan, undergraduate's student in the Faculty of Information Technology and Management of BSUIR, 1846002512@qq.com.

Alevtina Gourinovitch, professor in Faculty of Information Technology and Management of BSUIR.gurinovich@bsuir.by.