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**Project Proposal**

**On**

**“Library Management System”**

**Course Code：ISOM3000(003)**

**Course Title：Database Management**

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**Group Members：**

**BC209436,YANG XI**

**BC103272 SOU SAI IENG**

**BC207013 IEONG KAI IN**

**BC105601 ZHENG TONGYU**

**BC207981 CHAN IAMFAI**

**BC204598 Deng Juntao**

**INTRODUCTION**

Information technology has revolutionized human life, making it more convenient and efficient through the development of various applications. As a result, numerous tools, technologies, and systems have been created to meet the changing needs of society.

This project aims to develop a library management system for CYTC Library in UM, with the intention of streamlining library operations. The primary objectives of this project are to minimize daily expenses and enhance the efficiency of the check-in and check-out procedures. By achieving these goals, the library will be able to attract and accommodate more readers in the future.

**EXISTING SYSTEM**

Library Management of CYTC Library in UM was started to use in January 2019 for all RC students and staffs.All books are classified by the content and application such as Chinese novels, foreign novels, mystery novels, Macau books, textbooks etc. Each category has a volume of about 20 to 45 books.

In the current system, most books are given a number manually at the cover when they are brought to the library. All the transactions of books are done by scanning the QR code to check in then in the link the borrower should fill in the name, student ID number, borrowing time, return time and the number of the borrowed book. After filling in all the relevant information, the borrower can just borrow the book. However, we do not have access to information on whether the book has been returned or not, nor do we have access to reports on it.

Here the key question is:

* + Incomplete book numbering entries: The existing system lacks complete book numbering entries, and some book numbers on the covers may have become detached and ineffective.
  + Lack of recording borrower's return information and missing contact details: The system fails to record borrower's return information, and there is a lack of contact details for borrowers.
  + Inadequate data security: The system does not provide sufficient data security measures, allowing unauthorized individuals to borrow books.
  + Lack of system updates and management: The system has not been updated for several years and lacks effective management.

**Reason of Development**

* Optimize the lending process to ensure the security and traceability of book materials
* Updating the library of book information in the system
* End of semester output RC students reading reports

**Solution to the Problem**

The solution to the problem of the manual library management is to develop a proposed library management system. At the beginning ,we should identify:

The main users - The main users of the proposed system are the borrowers and staffs.

Their activities - The activities of the main users of the proposed system are listed below.

1. Borrower:Search and borrow books
2. Staff :Add/delete books and maintain the database system

**PROPOSED SYSTEM:**

* Complete registration of borrowers
* ﻿Regular output of reading reports
* Quickly contact the database to find book information
* User friendly：Simple information registration system (including borrower and book information)

The proposed system will greatly improve staff efficiency and user convenience on the basis of the current system.

**SUMMARY**

The Library management system needs to be computerized to reduce errors and to increase the efficiency . The proposed Library management system in this proposal will be a system developed to maintain all the daily work of library.Library management systems are designed to store all the information about books and members.

**Existing System Pages**

 