

# 13016235: C Programming

First Semester, 2015

## Project Proposal

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### 1. Project developer

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### 2. Project title

Library Management
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### 3. Project description and requirements

#### **Project description:**

The project 'Library Management' is the project for managing library. The aim of the project is to develop library system using the C language that useful for librarian or organization of library which are convenience and easy to manage the data in library.

The project indicates the creation of a user interface of a system, with the use of C Graphics library.

The application uses basic C function to generate menus, show message boxes and print text on the screen.

There are 6 Different modes for administrator in the program. These are add books, delete books, search books, view book list, edit book's record, and close administrator mode. When the administrator prompt a number 1 program will move into the add books part and do the conditions of add book part so as another part between 2 and 5. Finally, 6 mode means go back into selection mode.

In addition, There are 3 Different modes for user in the program. These are search books, view book list, and Close user mode. When the user prompt a number 1 program will move into the search books part and do the conditions of add book part so as number 2. Finally, 3 mode means go back into selection mode.

The application also implements the concept of structures to define the library items. It also effectively applies the various C concepts such as file operations, looping, structures, if-else, switch case, function, branching constructs and string manipulation functions

**Project requirements:**

- Program will only operate on ENGLISH language only.
- Program has administrator mode which provides for admin to add books, delete books, search books, view book list, and edit book's record.
- Program has user mode which provides for user to search books and view book list.
- Program has login function which let admin prompt the password in. If password is the same as default administrator mode will start.
- Program has function which fetches the exact text memory addresses of a target location, to write text at a particular location.
- Program can record the information of books by only type these information in program and can invoke that information every time that very useful and convenience for librarian or organization of library.