User Manual

1.1 Introduction

The Library Path Searching System (LPSS) is a web system that can help you search locations of books and find the shortest path to fetch these books in a library. For librarians, it will be very practical to reduce the work of returning books back to the shelves and managing library. This manual guides general users and staffs to use this system.

1.2 Authority

Figure 1: Main navigation bar

As you can see, this is main navigation bar of the website. Different types of people have different authorities to access those pages.

If you click on the page without authority, there will be a warning.

Pages	General user	Junior Librarian	Senior Librarian	DB Admin	Curator
People	NO	YES	YES	YES	YES
Books	NO	NO	YES	YES	YES
Maps	NO	NO	NO	YES	YES
Others	YES	YES	YES	YES	YES

Table 1: Authority table

1.3 Manage Personal Information

1.3.1 Personal Webpage Introduction

Click 'Personal' on the main navigation bar, this will lead you to the personal page.

In this webpage, you can **change password**, **view and modify favorite list**, **view borrowed list and to-do list**.

Figure 2: Personal page

For General Users   For Staffs

Table 2: Leftside bar comperation of personal page

The left sidebars for general users and staffs are different.

If you are a general user, you can do	If you are a staff, you can do
1. **View personal information**	1. View personal information
2. **Change password**	2. Change password
3. **View Borrowed list**	3. View and modify to-do-list
4. **View favorite list**	

Table 3: Personal Operation Comperation Table

Notice: Modify favorite list is not in this page, the function is on the search for shortest path section ('Search' page).

1.4 Search for shortest path

1.4.1 Search Webpage Introduction

Click 'Search' on the main navigation bar, it will lead you to the Search page. On this page a user could **search for books** and get the **shortest path** of these books.
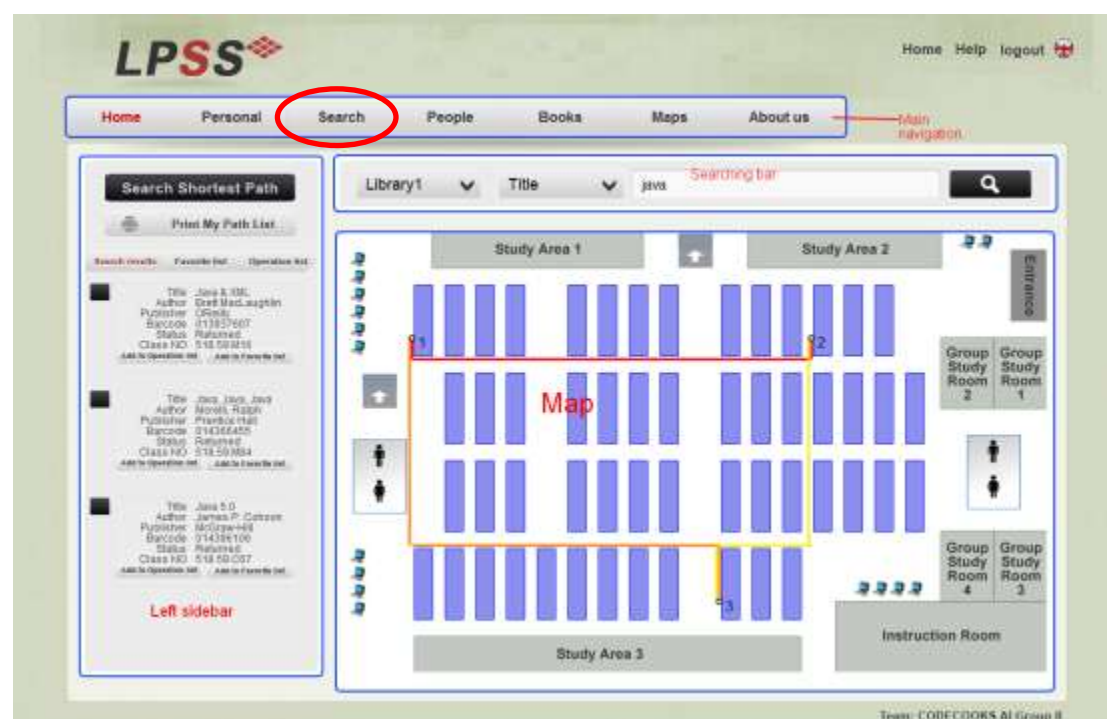

Figure 3. **1**: Map page

Here is a searching Bar which could be used to search for books in library:
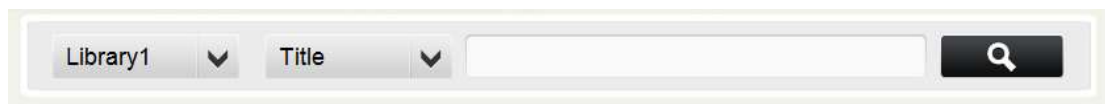

Figure 3.2: Searching bar in search page

Search for books steps:

1. Choose the library: The library name that your books would be.

2. Choose search category: This could be book title, author or barcode.

3. Enter the key word: Not case sensitive.

Simply click on the search icon on the right, the result will be displayed at the left of the web page.

Get shortest path

Just click the button below the book named 'Add to Operation list' you can add the book to operation list. Then the path with this book will be displayed on the map area.
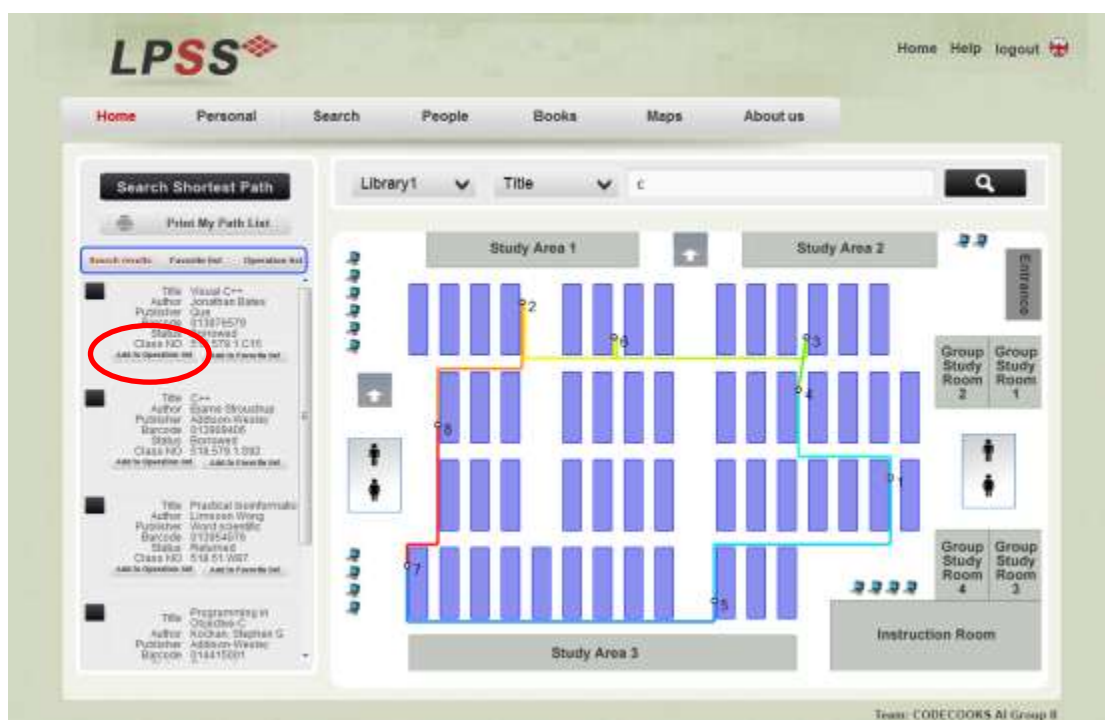
Display

Figure 3.3: Tabs in left sidebar in search page

Click on the tabs to see the search result, favorite list or operation list.

In the favorite list, the book could be modified like delete from favorite list or add to operation list.

The paths between each two books are in different colors. It is easy to distinguish.

1.5 Staff Management

All the members including general users and staffs can be viewed by every staff, but only the curator could modify their accounts.

1.5.1 People Webpage Introduction

Click 'People' on the main navigation bar, this will lead you to the staff management page. In this web page a manager could **view all users** and **manage staff**.
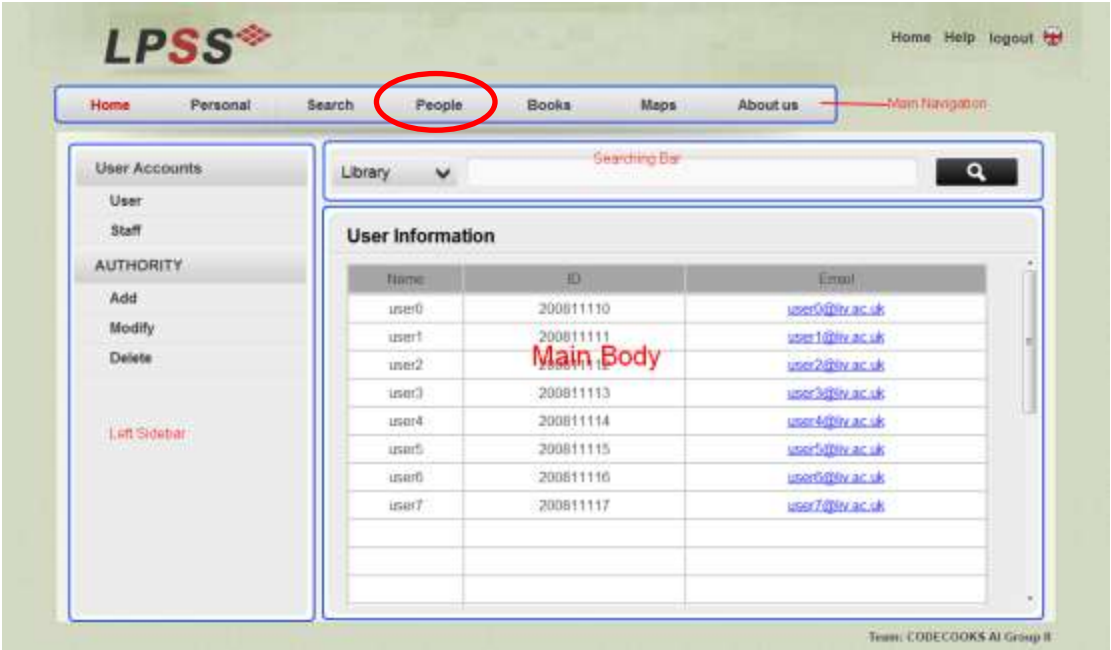

Figure 4.1: People page

Curator   Other staffs

Table 4: Left sidebar comperation in people page

There is little different between curator and other staff on left sidebar navigation.

So only the curator has the authority to manage people.

All the staff basic information could be viewed by other staff.

1.5.2 Staff Management

There are three type operations that could be used to modify staff: **add**, **modify** and **delete**.

1.5.2.1 Add Staff

Figure 5. **1**: Screen shot of add staff

If and only if the conditions bellow are satisfied the staff could be add:
1.   User name could not be the same with other staffs
2.   User ID could not be the same with other staffs, ID should be numbers.
The reset button is for cleaning everything entered.
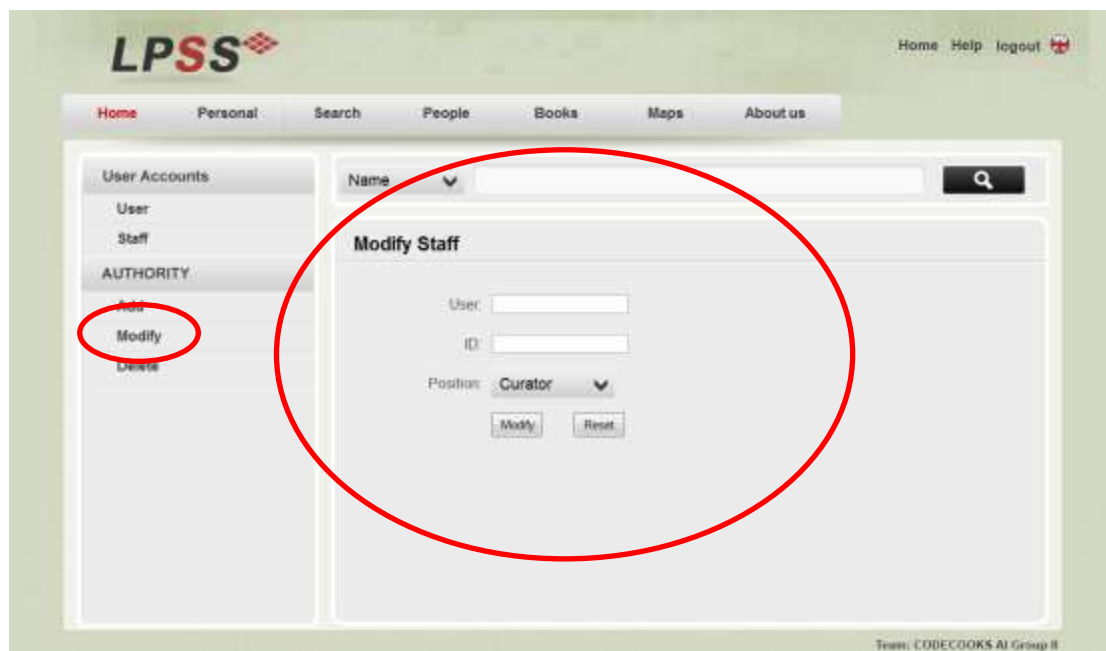
1.5.2.2 Modify Staff

Figure 5.**2**: Modfy staff fucntion screen shot

If and only if the following conditions are satisfied, then the staff's position could be changed:

1.   The user name entered should exist.
2.   The ID of the user must be the correct

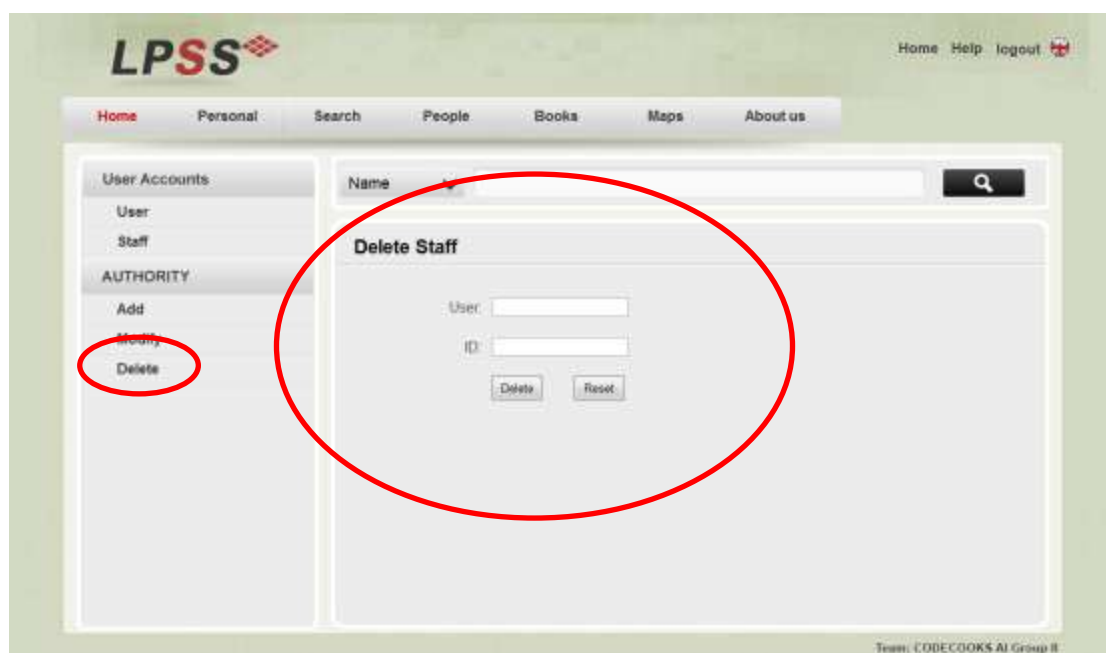The reset button is for cleaning everything entered.

1.5.2.3 Delete Staff

Figure 5.**3**: Delete staff screen shot

If and only if the following conditions are satisfied, then the staff could be deleted:

1. The user name entered should exist.
2. The ID of the user must be the correct

The reset button is for cleaning everything entered.

1.6 Add Book

Only Senior Librarian, Database Administer and curator could add a book to the database.

1.6.1 Book Webpage Introduction

Click 'Books' on the main navigation bar, it will lead you to the book adding page. Senior Librarian can use this page to **add books** to the database.
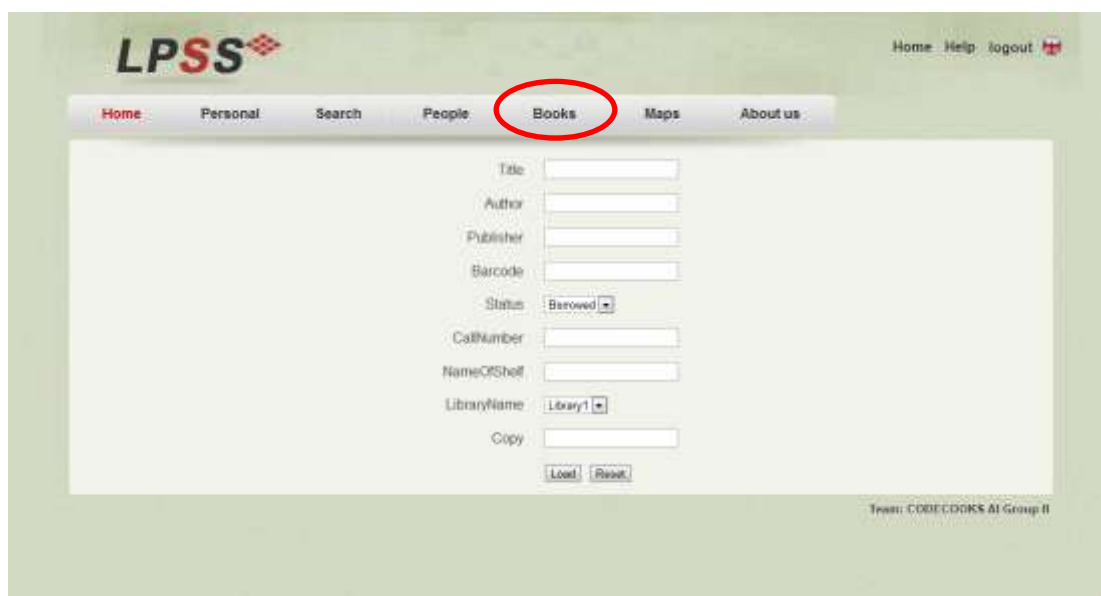

Figure 6. 1: Screen shot of book page

Senior Librarian can use this page to add books to the database, if and only if the barcode and callNumber of the book are both not the same with other books and the copy of the book is integer, then the book could be added.

1.7 Edit Map

Only the curator and database administer could edit a map. This function is not fully implemented that the map cannot be stored to the database.

1.7.1 Map Webpage Introduction

Click 'Maps' on the main navigation bar, this will lead you to the map edit page. Database administer can use this page to **edit maps** of the database.
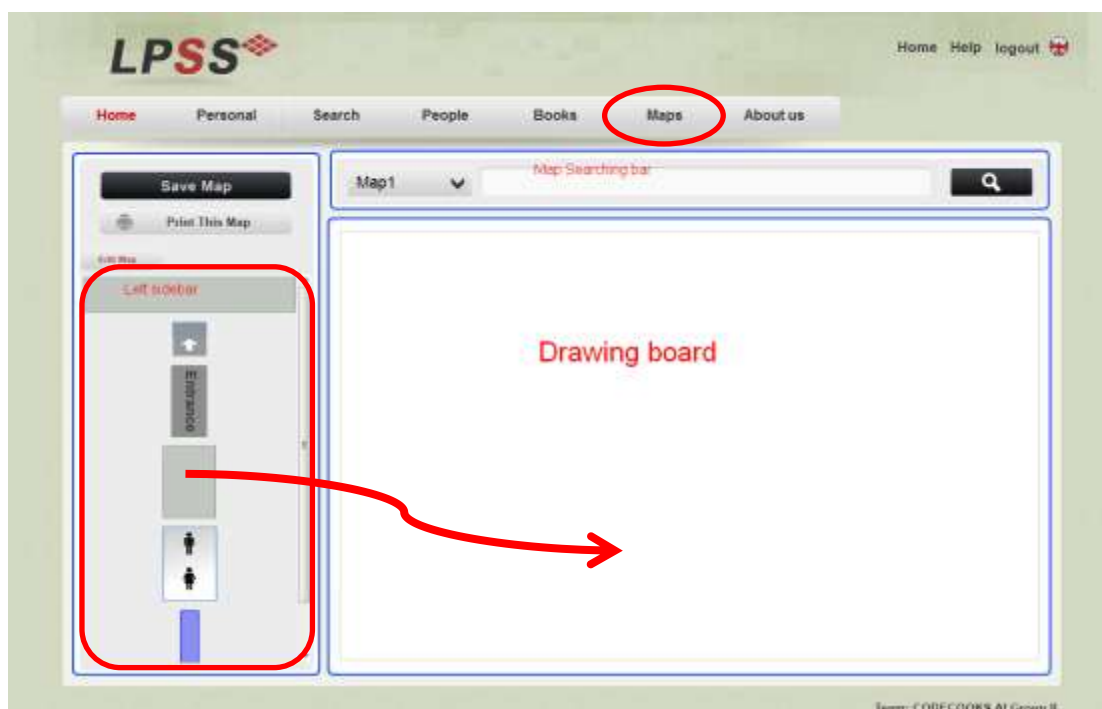

Figure 7. **1**: Screen shot of map page

1.7.2 Edit Map

There are stuffs that a library may have in the left sidebar.

Add stuff to the map: Simply drag the stuff to the drawing board.

Draw map: In the main body of drawing board, hold the left button of mouse and move.

Add text: Double click the main body of the drawing board to add some texts.

Notice: As this function is implemented using HTML5, it can only be used on the browser which supports HTML5 such as chrome. The map saving and map printing functions have not be implemented yet, may add them in further versions.

1.8 About Us

Click 'About us' on the main navigation bar, it will lead you to webpage which contains

information about us. If you wish to contact us, there is some contact information.
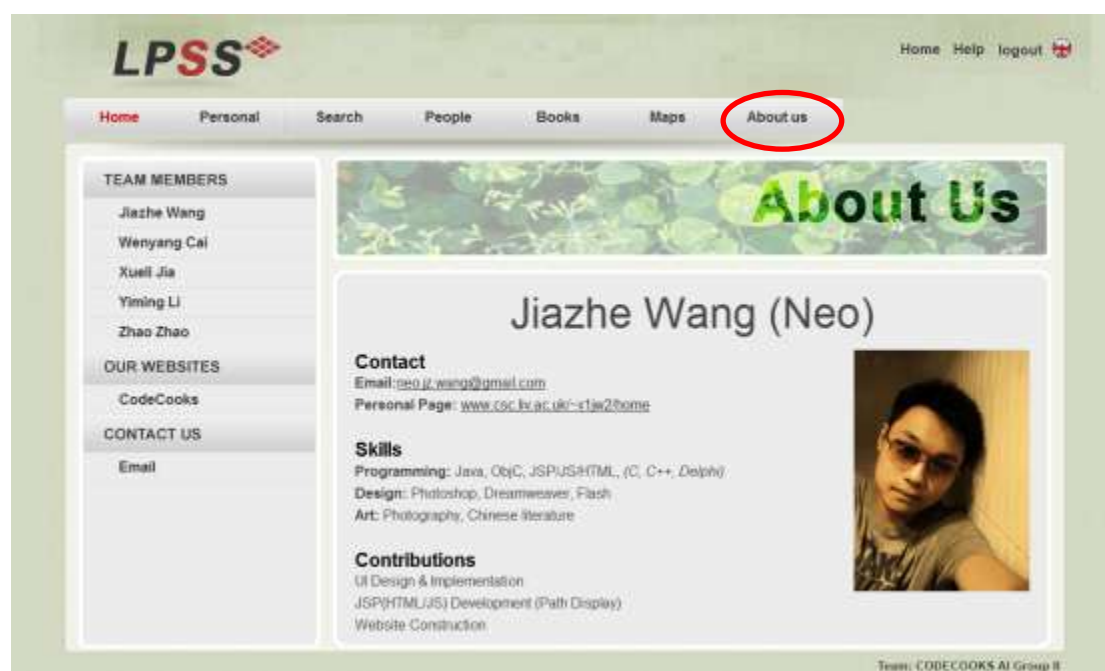

Figure 8: Screen shot of Abou us page

1.9 Section not implemented:

Search for staff

Figure 8.**1**: Search bar in people page

This searching bar is used for searching for staffs and users in the library.

Search for library map

Figure 8.**2**: Search bar in map page

This searching bar is used to search for map of a particular library.

These functions above have not been implemented yet. Please wait for further version of the system and sorry about any inconvenience.