

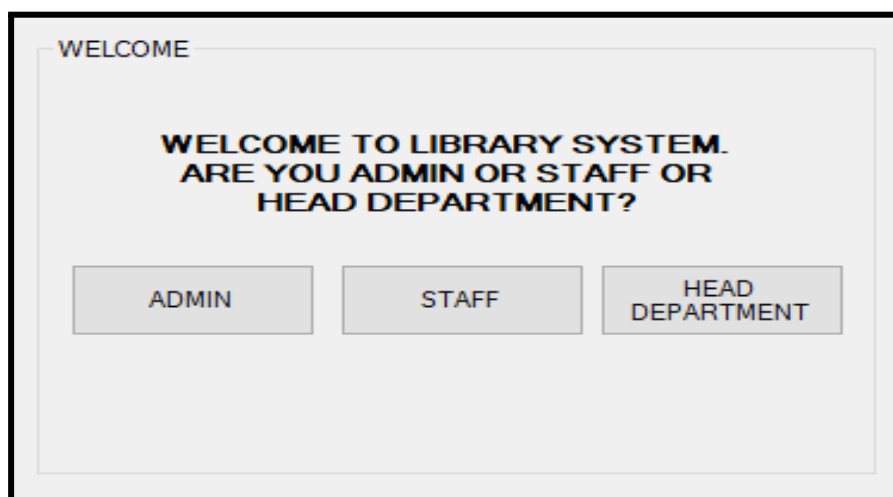
## 2 External Interface Requirements

### 2.1 User-Interfaces

The Negeri Sembilan Library Database System can only be used by two types of users which are Admin and Library Staff to insert data about members and books.

#### 1 Welcome Interface

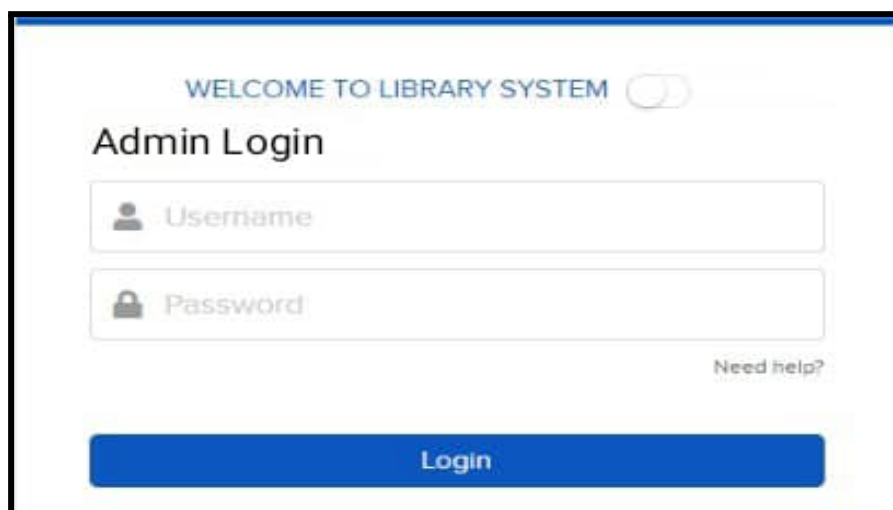
The Library System will let the users choose whether they are Admin or Staff or Head Department. This is important to the system because the functions of systems are different for each user. The users need to click the button either they are Admin or Staff or Head Department.



A screenshot of a web interface titled "WELCOME". The main heading reads "WELCOME TO LIBRARY SYSTEM. ARE YOU ADMIN OR STAFF OR HEAD DEPARTMENT?". Below this heading are three rectangular buttons: "ADMIN", "STAFF", and "HEAD DEPARTMENT".

#### 2 Admin Login Interface

Admin or administrator is responsible to view, update, add and delete the information about staff in the database system. Admin needs to insert their name and password to verify if they are the admin for the system. Then, click the button login to enter the system.



A screenshot of a web interface titled "WELCOME TO LIBRARY SYSTEM" with a toggle switch. Below the title is the heading "Admin Login". There are two input fields: "Username" with a user icon and "Password" with a lock icon. A link "Need help?" is located below the password field. At the bottom is a large blue button labeled "Login".

## 2.1 STAFF LIST DETAILS

Admin can view, delete, update and add Staff Details. Button update is for updating the Staff Details while button add is to register new Staff Details to the system. Admin can sign out from the system by clicking Log Out button.

INFORMATION

STAFF ID	STAFF NAME	PHONE.NO	BRANCH

DELETE

UPDATE

ADD

Staff List

Register Staff

Update Staff

Log Out

## 2.2 Register Staff By Admin

Admin can register Staff Details by clicking the button save after inserting the new Staff Details

REGISTER STAFF

STAFF ID

STAFF NAME

PHONE NUMBER

BRANCH

CLEAR

SAVE

Staff List

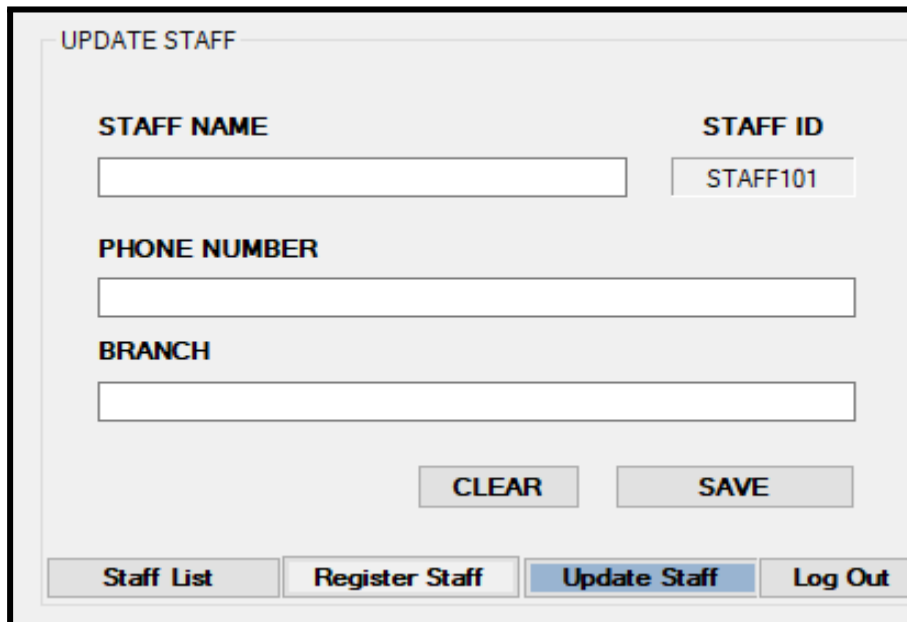
Register Staff

Update Staff

Log Out

### 2.3 Update Staff By Admin

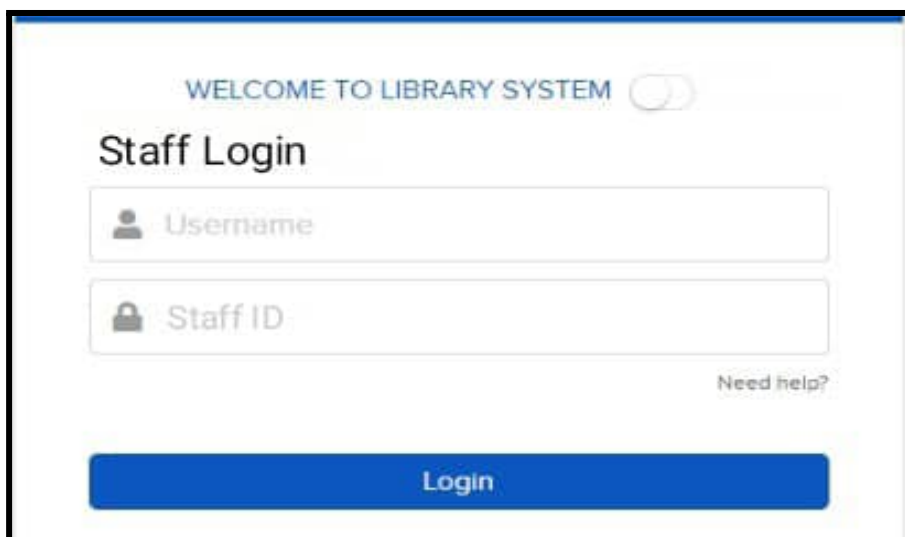
Admin can update Staff Details by clicking the button save after inserting the updating Details.



The screenshot shows a web form titled "UPDATE STAFF". It contains four input fields: "STAFF NAME" (a text box), "STAFF ID" (a text box containing "STAFF101"), "PHONE NUMBER" (a text box), and "BRANCH" (a text box). Below these fields are two buttons: "CLEAR" and "SAVE". At the bottom of the form, there is a navigation bar with four buttons: "Staff List", "Register Staff", "Update Staff" (which is highlighted in blue), and "Log Out".

### 3 Staff Login Interface

Staff is responsible to view, update, add and delete the information about members, books and events in the database system. Staff needs to insert their name and ID to verify if they are the staff for the system. Then, click the button login to enter the system.



The screenshot shows a web page titled "WELCOME TO LIBRARY SYSTEM" with a toggle switch. Below the title is the heading "Staff Login". There are two input fields: "Username" (with a user icon) and "Staff ID" (with a lock icon). To the right of the "Staff ID" field is a link that says "Need help?". At the bottom of the form is a large blue button labeled "Login".

### 3.1 Member List Details

Staff can view, update and add Member Details. Button update is for updating the Member Details while button add is to register new Member Details to the system. Staff can sign out from the system by clicking Log Out button.

MEMBER DETAILS

MEMBER ID	STAFF NAME	EMAIL	PHONE.NO	ADDRESS	POSTCODE	STATE

DELETE UPDATE ADD

Member List Register Update Borrow Return Exit

### 3.2 Register Member By Staff

Staff can register Member Details by clicking the button save after inserting the new Member Details

REGISTER MEMBER

MEMBER NAME MEMBER ID

EMAIL AGE

PHONE NUMBER

ADDRESS POSTCODE

STATE

RESET SAVE

Member List Register Update Borrow Return Exit

### 3.3 Update Member By Staff

Staff can update Member Details by clicking the button save after inserting the updating Details.

UPDATE MEMBER

MEMBER NAME:

MEMBER ID:

EMAIL:

AGE:

PHONE NUMBER:

ADDRESS:

POSTCODE:

STATE:

CANCLE UPDATE

Member List Register **Update** Borrow Return Exit

### 3.4 Borrow Book Member By Staff

Members can borrow a book by clicking the button **borrow** after inserting the details.

BORROW BOOK

MEMBER NAME:

MEMBER ID:

BOOK TITLE:

BOOK ID:

STATUS:

DATE BORROWED:

CANCLE BORROW

Member List Register Update **Borrow** Return Exit

### 3.5 Return Book Member By Staff

Members can return a book by clicking the button **return** after inserting the details.

RETURN BOOK

MEMBER NAME

MEMBER ID

BOOK TITLE

BOOK ID

ISBN NO

DATE RETURNED

## 4 Book

Staff can view, delete, update and add Book Details. Button update is for updating the Book Details while button add is to register new Book Details to the system. Staff can back out of the system by clicking the Exit button.

BOOK DETAILS

BOOK ID	TITILE	AUTHOR	ISBN

#### 4.1 Register Book By Staff

Staff can register Book Details by clicking the button save after inserting the new Book Details

The screenshot shows a window titled "REGISTER BOOK". At the top, there is a text box containing "STAFF ID : STAFF101". Below this, the form is organized into two columns. The left column contains three labels: "BOOK TITLE", "AUTHOR NAME", and "ISBN NO", each followed by a text input field. The right column contains two labels: "BOOK ID" followed by a text input field, and "TOTAL PAGES" followed by a numeric spinner box showing the value "0". At the bottom of the form area, there are two buttons: "CLEAR" and "SAVE". Below the form area, there is a horizontal bar with four buttons: "Book List", "Add", "Update", and "Exit". The "Add" button is highlighted with a blue background.

#### 4.2 Update Book By Staff

Staff can update Book Details by clicking the button save after inserting the updating Details.

The screenshot shows a window titled "UPDATE BOOK". At the top, there is a text box containing "STAFF ID : STAFF101". Below this, the form is organized into two columns. The left column contains three labels: "BOOK TITLE", "AUTHOR NAME", and "ISBN NO", each followed by a text input field. The right column contains two labels: "BOOK ID" followed by a text input field containing the value "BK101", and "TOTAL PAGES" followed by a numeric spinner box showing the value "0". At the bottom of the form area, there are two buttons: "CLEAR" and "SAVE". Below the form area, there is a horizontal bar with four buttons: "Book List", "Add", "Update", and "Exit". The "Update" button is highlighted with a blue background.

## 5 Event

Staff can view, delete, update and add Event Details. Button update is for updating the Event Details while button add is to register new Event Details to the system. Staff can back out of the system by clicking the Exit button.

EVENT DETAILS

EVENT ID	EVENT NAME	VENUE	DATE

DELETE UPDATE ADD

Event List Register Event Update Event Exit

### 5.1 Register Event By Staff

Staff can register Event Details by clicking the button save after inserting the new Event Details

REGISTER EVENT

EVENT NAME EVENT ID

EVENT VENUE

EVENT DATE

Wednesday, May 25, 2022

CANCEL SAVE

Event List Register Event Update Event Exit



## 5.2 Update Event By Staff

Staff can update Event Details by clicking the button save after inserting the updating Details.

The screenshot shows a web form titled "UPDATE EVENT". It contains three input fields: "EVENT NAME" (a text box), "EVENT ID" (a text box), and "EVENT VENUE" (a dropdown menu). Below these is a date field for "EVENT DATE" showing "Wednesday, May 25, 2022" with a calendar icon. At the bottom of the form are two buttons: "CANCLE" and "SAVE". Below the form is a navigation bar with four buttons: "Event List", "Register Event", "Update Event" (which is highlighted in blue), and "Exit".

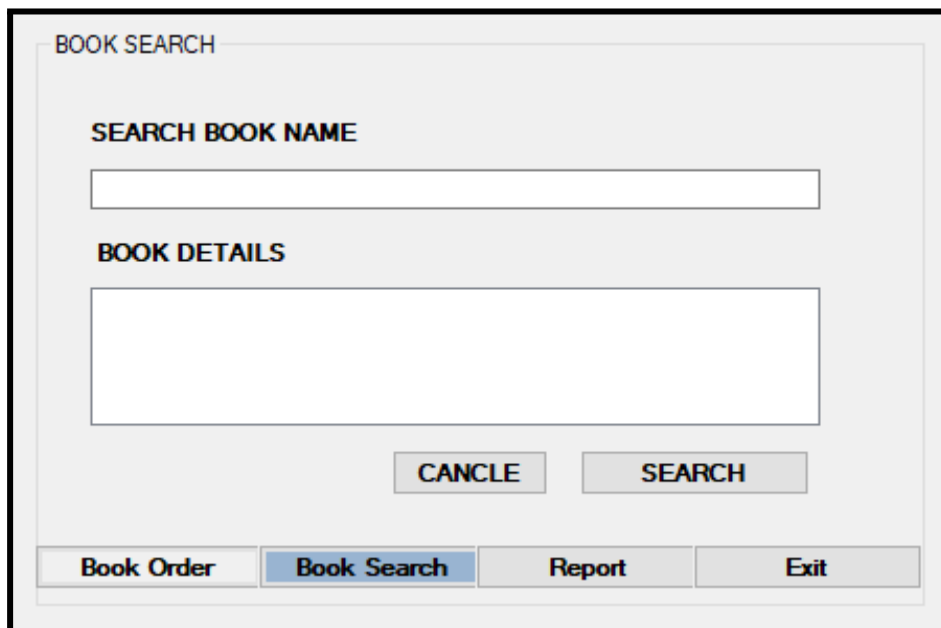
## 6 HEAD DEPARTMENT

Head Department can Order Book by searching which book they want to order and clicking the order button after inserting the order Details. Order Link will display on buy link.

The screenshot shows a web form titled "HEAD DEPARTMENT". It contains two input fields: "SEARCH BOOK NAME" (a text box) and "QUANTITY" (a text box). Below these is a "BUY LINK :" label followed by a text box. At the bottom of the form are two buttons: "CANCLE" and "ORDER". Below the form is a navigation bar with four buttons: "Book Order" (which is highlighted in blue), "Book Search", "Report", and "Exit".

### 6.1 Search Book By Head Department

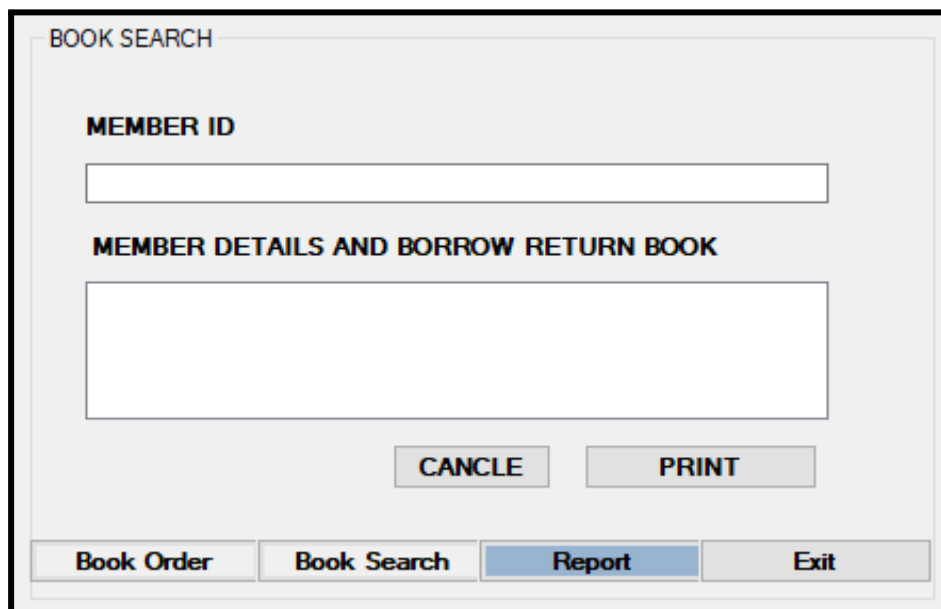
Head Department can Search the Book from the system by clicking the search button after inserting the book name.



The screenshot shows a window titled "BOOK SEARCH". Inside, there is a section labeled "SEARCH BOOK NAME" with a text input field below it. Below the input field is a section labeled "BOOK DETAILS" with a larger text area. At the bottom of the main content area are two buttons: "CANCLE" and "SEARCH". At the very bottom of the window is a navigation bar with four buttons: "Book Order", "Book Search" (which is highlighted in blue), "Report", and "Exit".

### 6.2 Generate Report By Head Department

Head Department can generate report member from the system by clicking the print button after inserting the member ID.



The screenshot shows the same "BOOK SEARCH" window, but with different content. The section "SEARCH BOOK NAME" is replaced by "MEMBER ID" with a text input field. Below it is a section labeled "MEMBER DETAILS AND BORROW RETURN BOOK" with a larger text area. At the bottom of the main content area are two buttons: "CANCLE" and "PRINT". The navigation bar at the bottom remains the same, with "Book Order", "Book Search", "Report" (highlighted in blue), and "Exit".

**ADMIN > STAFF > BOOK > MEMBER**

**Admin add staff, staff add book and member, member borrow and return book**

**ADMIN fixed data from localhost**