**Function and Features**

**Borrow book**

Search Book   
The system will accept searching details from the user. Then filter the all the book in the library that meet the search requirement and display the result to the user.

Borrow Confirmation  
After the searching process, the user will allow user to select one book to borrow. After that, system will require the user to confirm the book they want to borrow.

Book Reservation  
After the confirmation process, the detail of the user will be recorded on the book reservation file for future use. After that, system will display the book status for the user and inform the user when to collect the book at the library.

Collect Book  
When the user come to library to collect the book, the system will change the status of the book from reserved to collected. If the user did not collect the book at the specific day, the system will automatically change the status of book to available and assume that the user has returned the book.

Renew Book  
If user not enough time to read this book, the system also allow user make an extension request. The extension request process requires the user to key in the serial number on the book and their user ID. After that, system will generate and display a new expired date of the book for the user. User are only allowed to use this feature not more that 2 times for each book they borrowed to prevent the user from abusing this feature.

Update Book Status  
After user collected the book or renewed the book, the system will update the book status in the book file.

**Fine Payment**

Receive Fine Details

The system receives fine details which includes the number of days of late returning and user ID.

Calculate Fines

After receiving fine details, the system will calculate the total amount of fine by the rate of RM1 per day.

Payment Option

User can choose to pay the fine upfront or via online banking. If the user chooses to pay the fine at the counter, they system will generate a bill for the user where the user can show it to the counter to pay for the loan. Otherwise, the system will redirect the user to their desired bank payment gateway.

Online Banking

The user is required to enter their banking information to make the payment. If the payment is successful, the fine amount recorded in the user’s account will be deducted. Or else the system will show a “Failed to receive payment” message.

Store Fines

The updated fine amount will be displayed to the user and store into the system.