

# LIBRARY MANAGEMENT SYSTEM

**Group 1 – Software Requirement Specification** 

# 1 Overall Description

# 1.1 Introduction

Library Manager Application is a management application for librarian and staff to manage the library. With Library Manager, they can manage their book lenders (customers) and list of book in library more easily, the staff control all lent activities of the customers.

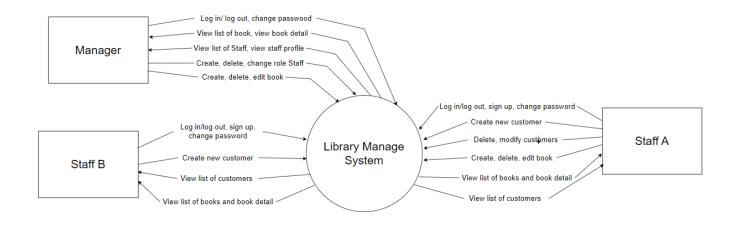


Figure 1: Library management system

# 1.2 Feature Descriptions

#### 1.2.1 User Requirements

#	Actor	Description
1	Manager	Someone who has an account to be able to manage all.  accounts in system, manager book and all staff. They delegate authority to employees.
2	Staff A	Someone who has an account to be able to view, edit, add new, delete customers and list books.
3	Staff B	Someone who has an account to be able to view, add new and edit customers; view books.

# 1.2.2 Screen Functions

#	Feature System Function		Description
1	User authentication	Verify login information and grant access.	Users enter login information to access the system.
2	Password recovery	Send password recovery information to the user.	Users can recover their password if they forget their login details.
3	Password modification	Allow users to change their password.	Users can change their password for security reasons.
4	Overview of system status.	Display key metrics and information.	Provides a snapshot of the system's current state.
5	Book inventory management	Add, edit, and manage book details.	Allows Employee A to oversee the list of available books.
6	List of available books	Display a comprehensive list of available books.	Employee A can view a catalogue of books, including such as title, author, and availability status, to facilitate easy browsing and selection.
7	Book details	Provide detailed information about a book.	Users can access specific details for a book, including its synopsis, author information, publication details, and user reviews.
8	Add/edit/delete books	Add, edit, delete and manage book.	Allow Employee A or Manager to add new books or modify existing book information in the book catalogue.
9	Book search	Search for specific books.	Users can find desired books by entering titles, or authors into the search bar. The system will display relevant results.
10	Reader management screen	Display list, add/edit Reader profile.	This screen acts as a central hub for managing readers. It provides a concise view of registered readers and allows seamless addition or modification of reader profiles.
11	List of Reader	View list of Reader.	Display a comprehensive list of individuals borrowing books.
12	Reader profile details	Present detailed information about a	Employees can view in-depth details about an individual borrower, including personal

		specific reader's profile.	information, contact details, and borrowing history.
13	Add/edit Reader profile	Add new reader profiles or edit existing reader information.	This screen empowers library staff to efficiently manage borrower data by adding new profiles or updating existing information.
14	Reader search	Search for specific readers.	Employees can use the search functionality to quickly locate and retrieve information about specific readers.
15	Reader Borrowing History	Borrowing history of a specific reader.	This screen of a reader's past transactions, showcasing the books they have borrowed and returned.
16	General Reporting and Analysis	Reports and analysis for both book and reader	Display comprehensive reports and analysis for both book and user statistics.
17	Book Statistics Report	Report information related to books.	Allows managers to analyse book trends for informed inventory management. Reports on popular books, damaged books, and books with low borrowing frequency.
18	User Statistics Report	Report information related to readers.	Provide insights into users consistently borrowing overdue items, users currently holding overdue books, and users responsible for book damages.
19	App Settings Screen	Provides options to configure such as themes and fonts.	This screen acts as a control panel for users to customise. It includes features such as themes, font settings.
20	Theme Selection	List of available themes.	Allow users to choose from a variety of visual themes for the application interface.
21	Font Style Configuration	List of available fonts.	Enable users to customise the font style used throughout the application.
22	Notification configuration	Display overdue loan notifications.	Allows users to configure notification settings, including reader notification lists.
23	User Account Management	General user account settings	Includes user account management features, including profile viewing, password changing, and, specifically for managers, the ability to modify employee profiles.
24	View profiles	Displays user account information.	Allows users to access and review their account profiles, presenting details such as personal information, role, and contact details.
25	Change password	Change the password for the user.	Empowers users to modify their account passwords.
26	Change profile	Change user account information.	Exclusively available to managers, this function allows them to modify the profiles of other staff members.
27	Access Rights Configuration	Decentralise6r3 permissions to other staff accounts.	Enable managers to configure and assign access rights for other staff accounts.
28	Display employee list		

#### 1.2.3 Non-Screen Functions

#	Feature	System Function	Description
1	User login security	Verify user credentials for secure access	Ensures that only authorised users can log in to the system.
2	Password retrieval	Provide a mechanism for users to recover forgotten passwords	Allows users to regain access to their accounts in case of forgotten passwords
3	Communication with users	Send notifications for overdue books, account updates, etc.	Keeps users informed about important events and updates
4	Persistent data storage	Store and retrieve information about books, users, and system settings	Ensures that data is securely stored and accessible when needed.
5	Manage user permissions	Control access levels for different user roles	Ensures that each user has appropriate access rights within the system.
6	Generate reports and analyse data	Process data to provide insights into book and user statistics.	Supports managerial decision-making with comprehensive data analysis.
7	Personalization options.	Allow users to customise themes, fonts, and notification settings	Enhances user experience by providing customization options.
8	Administer staff roles and permissions.	Add, modify, or remove staff members and assign appropriate roles.	Allows administrators to manage staff access and responsibilities.
9	Record system activities	Log user actions for security and accountability	Facilitates tracking and auditing of system events
10	Communication channel	Integrate with email for password recovery and notifications	Utilises email for communication between the system and users

## 1.2.4 Common Requirements

#### **Functional Requirements:**

- User Authentication
  - o The system must provide a secure and user-friendly login screen for all users.
  - o Ensures controlled access to the system and protects user information.
- Password Management
  - o The system must include screens for password recovery and password change for all users.
  - o Enables users to recover or update their passwords securely.

#### Dashboard

- o A dashboard must be available for all users, displaying key metrics and information relevant to their role.
- o Provides users with a quick overview of system status and important data.

#### Book Management

- o All users (including staff and managers) must have access to screens for managing books, including viewing, adding, editing, searching, and accessing detailed information.
- o Facilitates efficient management of the library's book inventory.

#### Borrower Management

- o All users (including staff and managers) must have access to screens for managing borrowers, including viewing, adding, editing, searching, and accessing detailed information
- o Facilitates efficient management of borrower profiles and interactions.

#### Borrowing History

- o A screen must display the borrowing history of a borrower, showing details of borrowed books.
- o Provides transparency and historical context for borrowers' interactions with the library.

#### Reporting and Analysis

- o Manager must have access to screens for generating reports and analyzing data related to book and user statistics.
- o Supports data-driven decision-making and strategic planning.

#### System Configuration

- o User must be able to access screens for system configuration, including theme selection, font preferences, and notification settings.
- o Allows users to customize their system experience for improved usability.

#### • User Account Settings

- o Only Manager can have access to screens for updating their profile information, changing passwords, and viewing their profiles and staff only change password.
- o Enables manager and staff to manage their personal information and account settings.

#### **Non-Functional Requirements:**

#### User Interface:

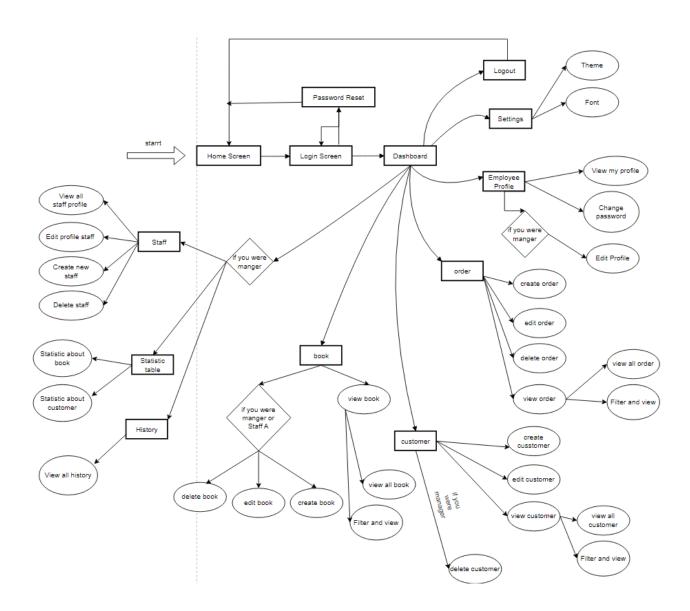
- o The user interface must be consistent, intuitive, and responsive across all screens.
- o Ensures a positive and efficient user experience.

#### Performance:

- o The system must provide responsive performance for data retrieval, reporting, and analytics.
- o Ensures timely access to information for effective decision-making.
- Protects against unauthorized access and maintains data integrity.

#### 1.3 Screen Description

#### 1.3.1 Screen Flow



## 1.3.2 Screen Details

#	Feature	Screen	Description
1	General	Home screen	The first page a user sees
2	General	User login	Users login to their account to access
3	General	Password reset	Screen for the user to recovery the account password
4	General	Dashboard Display key metrics and information of the role for user, overview of system status and important data.	
5	General	Setting	Provides options to configure such as themes and fonts
6	General	Notification	Users have the option to enable or disable notifications.
7	General	Employee Profile	Display the details of staff and provide staff functions.
8	General	Change password	Users can change the password.
9	Manager	Edit profile	Managers can modify information of accounts under other authority.
10	General	Order	Provides all of the order functions .
11	General	Create order	Users can create new orders.
12	General	Edit order	Users can edit or delete placed orders.
13	General	View order	Users can view details of placed orders.
14	General	Customer	Provides all of the customer functions .
15	General	Create customer	Users can create new customers.
16	General	Edit customer	Users can edit or delete customers.
17	General	View customer	Users can view customer details.
18	General	Book	Provides all of the order functions.
19	Manager or staff A	Create book	Manager or staff A can create new books.
20	Manager or staff A	Edit book	Manager or staff A can edit or delete books.
21	General	View book	Users can view book details.
22	Manager	Staff	Provides all of the functions related to managing employees for the manager
23	Manager	Create staff	Manager can create new staff.

24	Manager	Edit staff	Manager can edit or delete staff.
25	Manager	View staff Manager can view staff details.	
26	Manager	Statistic table	Managers can control staff and books in the library
27	Manager	Statistic about book	Statistics on books currently available in the library.
28	Manager	Statistic about customer	Library customer statistics.
29	Manager	History	Managers can check the history of borrowing or returning books

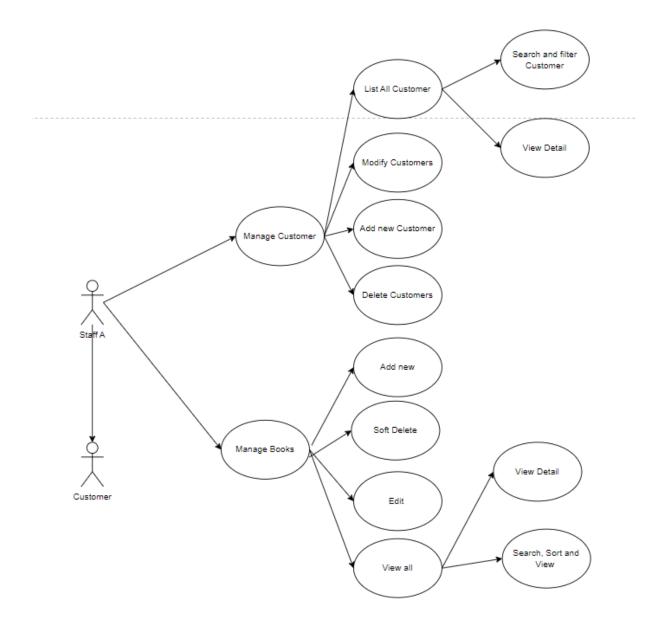
## 1.3.3 User Authorization

Screen	Staff A	Staff B	Manager
Login	X	X	X
Home	X	X	X
Dashboard	X	X	X
Change password	X	X	X
Setting	X	X	X
Staff profile	X	X	X
View profile	X	X	X
Theme	X	X	X
Font	X	X	X
List Book	X	X	X
List Customer	X	X	X
List Staff			X
Statistic book			X

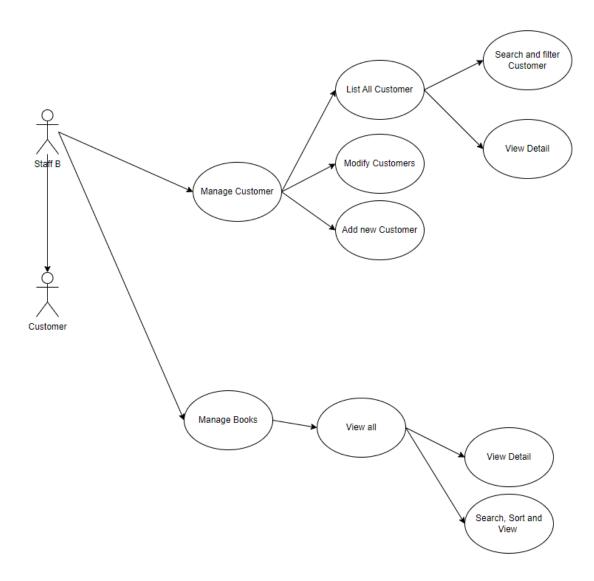
Order history			X
Create order	X	X	X
Customer profile	X	X	X
Add book	X	X	X
Update book	X		X
Delete book	X		X
Search book	X	X	X
View order detail	X	X	X
Update order	X		X
Delete order	X		X
View order	X	X	X
Add Staff			X
Update Staff			X
Delete Staff			X
Edit Staff			X
Logout	X	X	X
Filter and view	X	X	X
Statistic customer			X

# 2 System Features

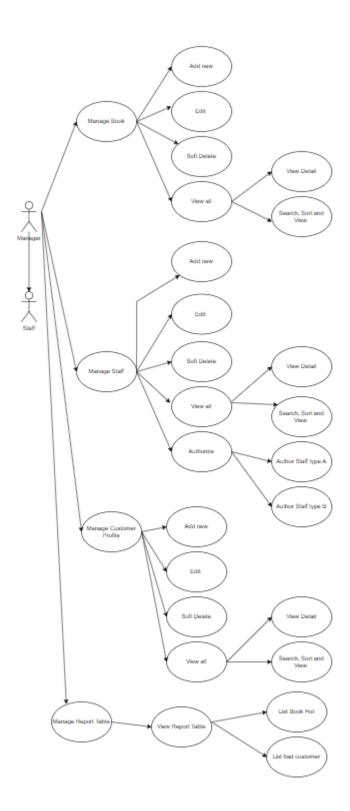
## 2.2.2.1. Staff A



#### 2.2.2.2 Staff B



2.2.2.3 *Manager* 

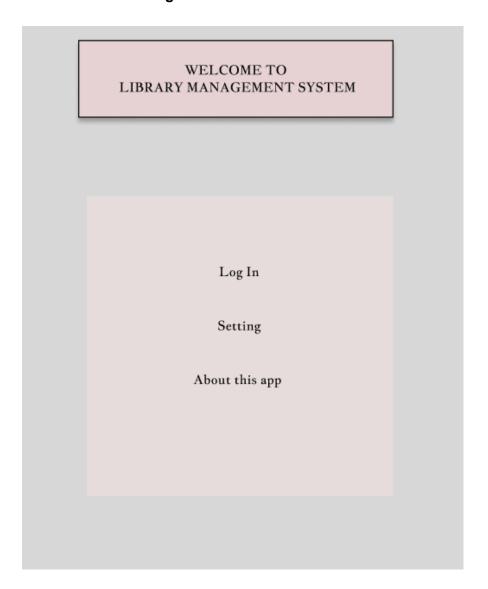


# 2 System Features

2.1 << Feature Name 1>>

## 2.1.1.1 Home Screen

## 2.1.1.1.1 Screen Design



**Table 1-1 Screen Definition** 

#	Field Name	Туре	Mandatory	Max Length	Description
1	Setting	Button			Go to setting page
2	Log In	Button			Go to home page

	3	About this app	Button			Go to description page
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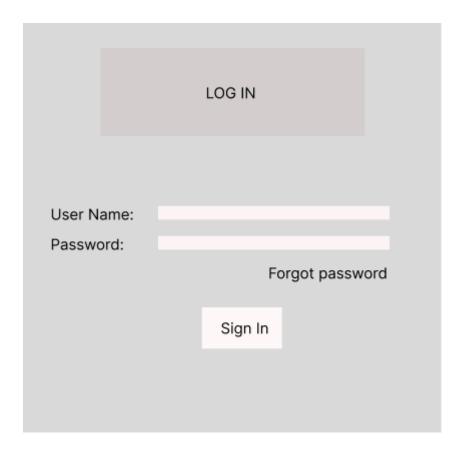
## 2.1.1.1.2 Use case Specification

Use Ca	Jse Case ID UC01 Use Case Name Home							
Author		BaoTQ	Version	1.0	Date	28/01/2024		
Actor		System, User	•					
Description The function allows about page.			allows a us	er to be a	ible to go to loç	gin, setting,		
Precondition		PRE-01:	PRE-01:					
PRE-02:								
Trigger		TRG-01:						
Post-Co	ondition	POS-01:						
Main flo	ows							
Step	Actor	Action						
1	User	Click on app						
2	System	Display message welcome and show buttons:  - Login - Setting - About this app						

AT1	At step 1 i	At step 1 in the main flows, if there is an internal error in the system,			
Sub step	Actor	Action			
1.1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

# 2.1.1.2 User Login

## 2.1.1.2.1 Screen Design



**Table 1-2: Screen Definition** 

#	Field Name	Туре	Mandatory	Max Length	Description
1	User Name	Text	Yes	20	

2	Password	Text	Yes	20	Display "*" instead of clear character
3	Sign In	Button			Go to home page
4	Forgot password	Button			Go to Forgot Password page

# 2.1.1.2.2 Use case Specification

Use Ca	se ID	UC02	Use Case	Name	Login		
Author		ThanhNT	Version	1.0	Date	28/01/2024	
Actor		System, User	-				
Descrip	otion	The function allows a user to be able to login in the software when he/she has registered an account and his/her account is still active.					
Precon	dition	PRE-01: PRE-02:					
Trigger		TRG-01: Clicl	k button Lo	gin on Ho	ome Screen		
Post-Co	ondition	POS-01:					
Main flo	ows						
Step	Actor	Action					
1	System	Display Login screen with the following fields: - User Name - Password - Sign In and Forgot password button					

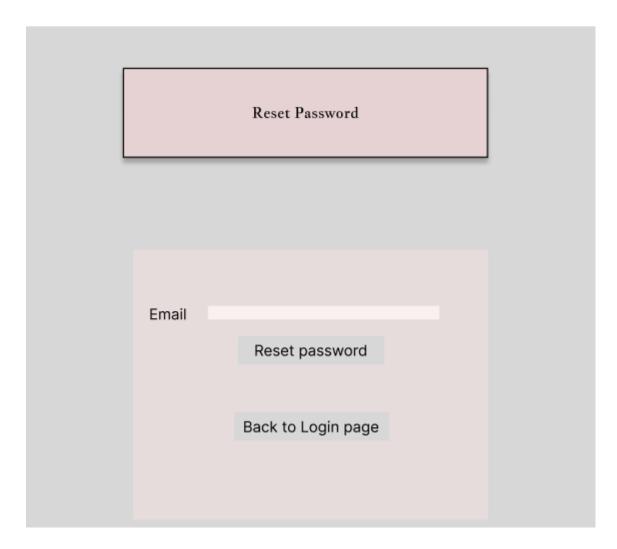
2	User	Enter username & password into Username & Password fields on the Login screen, then click on the Sign In button.
3	System	Validate the entered user name & password and then display Home screen

AT1	At step 2 i	At step 2 in the main flows, if there is an internal error in the system,					
Sub step	Actor	Action					
2.1	System	Display "Error" page with message "Internal System Error, please contact with administrator"					

AT2	1 -	At step 3 in the main flows, if the user enters the wrong username or password					
Sub step	Actor	Action					
3.1	System	Go back to Login page and display "Wrong password or username, try again"					

## 2.1.1.3 Reset Password

# 2.1.1.3.1 Screen Design



**Table 1-3: Screen Definition** 

#	Field Name	Туре	Mandatory	Max Length	Description
1	Email	Text	Yes	100	
2	Back to Login page	Button			Go to login page
3	Reset password	Button			Reset pass and send it in a mai to user

# 2.1.1.3.2 Use case Specification

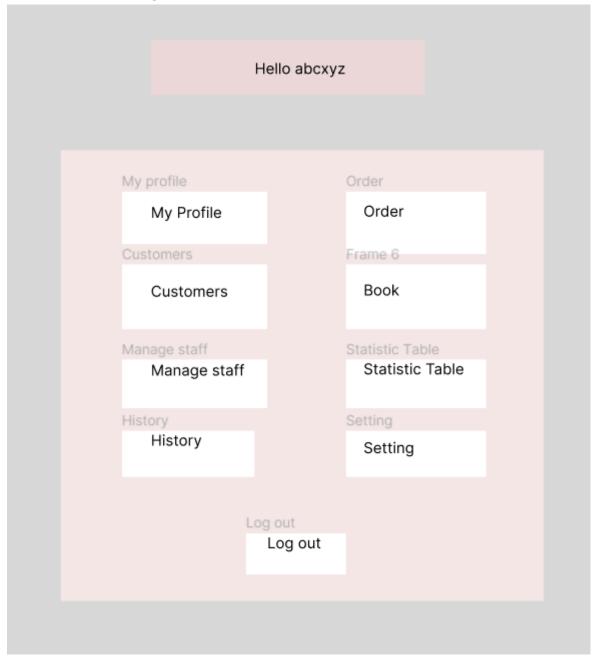
Use Cas	se ID	UC03	Use Case Name		Reset password		
Author		ThanhNT	Version	1.0	Date	28/01/2024	
Actor System, User							
Description The function allows a user to be able to reset password.						ssword.	
Precon	dition	PRE-01:					
		PRE-02:					
Trigger		TRG-01: Click button Forgot password on Login Screen					
Post-Co	ondition	POS-01:					
Main flo	ows						
Step	Actor	Action					
1	User	Click Forgot password button on Login Page					
2	System	Display Reset password screen with the following fields: - Email - Reset and Back to Login page button				g fields:	
3	User	Enter email, then click on the Reset password button.					
4	System	Validate the e	entered ema	il and sei	nd email with n	ew password to	

AT1	At step 3 in the main flows, if user click Back to login page button

Sub step	Actor	Action
3.1	System	Back to Login page

#### 2.1.1.4 Dash Board screen

## 2.1.1.4.1 Screen Design



**Table 1-4: Screen Definition** 

#	Field Name	Туре	Mandatory	Max Length	Description
1	My profile	Button			Go to profile page
2	Order	Button			Go to order page
3	Customers	Button			Go to customers page
4	Book	Button			Go to book page
5	Manage staff	Button			Go to manage staff page
6	Statistic table	Button			Go to statistic table page
7	History	Button			Go to history page
8	Setting	Button			Go to Setting page
9	Log out	Button			Log out and back to home screen

# 2.1.1.4.2 Use case Specification

Use Case ID	UC04	Use Case Name		Dashboard screen		
Author	VietHQ	Version	1.0	Date	28/01/2024	
Actor	System, User					

Descrip	otion	The function shows all available functions and allows a user to be able to choose functions they want.				
Precon	dition	PRE-01: Login successful PRE-02:				
Trigger		FRG-01:				
Post-Co	ondition	POS-01:				
Main flo	ows					
Step	Actor	Action				
1	System	Display Dashboard screen with the following fields:				
		- Welcome message				
		- My profile, order, book, customers, manage staff, statistic				
		table, history, setting, logout button				
2	User	Choose one of the buttons on screen				
3	System	Direct with button was chosen				

AT1	At step 1 i	At step 1 in the main flows, if there is an internal error in the system,					
Sub step	Actor	Action					
1.1	System	Display "Error" page with message "Internal System Error, please contact with administrator"					

## 2.1.1.5 Setting screen

## 2.1.1.5.1 Screen Design

	Setting	
Font		
_ fon	t 1	
_ fon	t 1	
Theme		
The	eme 1	
_ The	eme 2	
	Back to Dashboard	

**Table 1-5: Screen Definition** 

#	Field Name	Туре	Mandatory	Max Length	Description
1	Font	Radio	Yes		Choose font for system

2	Theme	Radio	Yes	Choose theme for system
3	Back to Dashboard	Button		Go back to Dashboard page

# 2.1.1.5.2 Use case Specification

Use Case ID		UC05	Use Case Name		Setting screen		
Author		VietHQ	Version	1.0	Date	28/01/2024	
Actor		System, User	•				
Description The function shows all available option settings.							
Precondition PRE-01: Login successful PRE-02:							
Trigger		TRG-01: Click	k button Setting				
Post-Co	ondition	POS-01:					
Main flo	ws						
Step	Actor	Action					
1	System	Display Setting screen with the following fields: - Font, Theme - Back to dashboard button					
2	User	Setting what they want.					
3	System	Reinstall the	system acc	ording to	the user's sett	ing.	

AT1	1 -	At step 2 in the main flows, if user don't want set any thing, back to dashboard					
Sub step	Actor	Action					
2.1	User	Click Back to Dashboard button					
2.2	System	Go back dashboard page					

## 2.1.1.6 Notification

# 2.1.1.6.1 Screen Design



Table 1-6: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	News	List			Display all news
2	Back to Dashboard	Button			Go back to Dashboard page

## 2.1.1.5.2 Use case Specification

Use Case ID		UC06	Use Case Name		Notification screen		
Author		DucTV	Version	1.0	Date	28/01/2024	
Actor System, User							
Description The function shows all news such as: people who return late,				o return books			
Precon	dition	PRE-01: Login successful					
		PRE-02:					
Trigger		TRG-01: Clic	k button No	utton Notification			
Post-Co	ondition	POS-01:					
Main flows							
Step	Actor	Action					
1	System	Display Notif books late,	lay Notification screen with all news: people who return				

AT1		At step 1 in the main flows, if user don't want set any thing, back to dashboard				
Sub step	Actor	Action				
1.1	User	Click Back to Dashboard button				
1.2	System	Go back dashboard page				

## 1.1.7 Employee Profile

1.1.7.1 Employee Profile

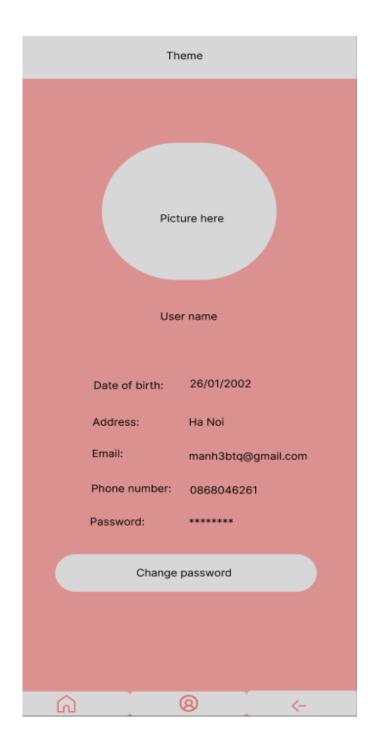


Figure: Screen Design of Employee profile

Table: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Picture	Image	None	None	Display avatar of Employee
2	Address	Text	Yes	None	Display address of Employee
3	Name	Text	None	None	Display Name of Employee
4	Date of Birth	Date	None	None	Display Date of birth of Employee
5	Email	Text	None	None	Display email of Employee
6	Phone	Text	None	None	Display phone number of Employee
7	Password	Password	None	None	Display Password of Employee
8	Change password	Button	None	None	Click to change password of Employee

# 1.1.7.2 Employee Profile

Use Ca	ise ID	UC7	Use Case Name		Employee Profile	•	
Author		VietHQ	Version	1.0	Date	17/02/2024	
Actor	Actor						
Descrip	otion	The function allows employees who have an account in the Library System to view their profile.				Library System to	
Precondition PRE-01: PRE-02:							
Trigger	r	TRG-01:					
Post-Co	ondition	POS-01:					
Main f	Main flow						
Step	Actor	Action					
1	Employee	Click the button a	nd then dis	play the em	ployee profile.		

2	System	Display information about employee profile:  + Photo + Name + DoB + Address + Phone + Password + Email + Change password button
3	User	The user can view their information about their profile and he/she can change their password.

AT1		
Sub step	Actor	Action
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"

## 1.1.8 Change Password

1.1.8.1 Change password screen

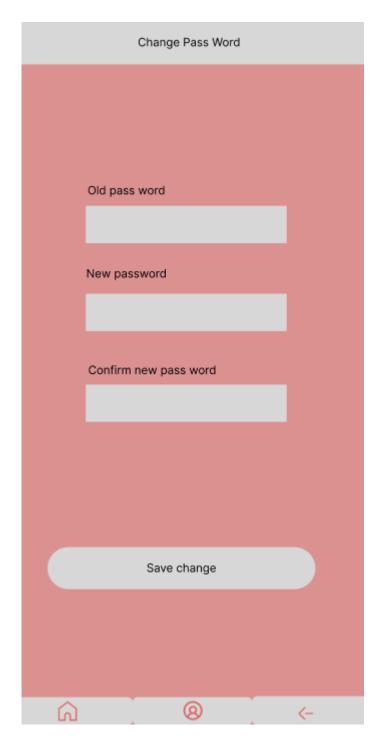


Figure: Change Password

Table Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Old password	Text	Yes	20	Display "*" instead of clear character
2	New password	Text	Yes	20	Display "*" instead of clear character
3	Confirm new password	Text	Yes	20	Display "*" instead of clear character
4	Change password	Button	None	None	Click to save change password of employee

# 1.1.8.2 Employee Profile

Use Case ID		UC8	Use Case Name		Change password	I		
Author	<del>.</del>	ThanhNt	Version	1.0	Date	17/02/2024		
Actor								
Description		The function allows employees who have an account in the Library System to change their password.						
Precondition		PRE-01: PRE-02:						
Trigge	r	TRG-01:						
Post-C	ondition	POS-01:						
Main f	low							
Step	Actor	Action						
1	1 Employee Click the button a		and then display the screen change password.					
2	System	Validate the entered password and then display Login screen			n			
3 User The user can change their password.								

#### Alternative flows

AT1	At step 2 in the main flows, if there is an internal error in the system,		
Sub step	Actor Action		
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"	

AT2	At step 3 in the main flows, if user failed to validate password		
Sub step	Actor Action		
1	System	Display with message "Old password is not correct." or "New password and confirm new password is not the same"	

# 1.9 Edit Employee Profile

## 1.9.1 Edit employee Profile



# **Figure** : Edit Employee Profile

#### Table Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Upload picture	Image	Yes	None	Display avatar of Employee
2	Address	Text	Yes	50	Display address of Employee
3	Name	Text	Yes	30	Display Name of Employee
4	Date of Birth	Date	Yes	None	Display Date of birth of Employee
5	Email	Text	Yes	30	Display email of Employee
6	Phone	Text	Yes	10	Display phone number of Employee
7	Save Change	Button	None	None	Save change information of employee

## 1.9.2 Employee Profile

Use Ca	se ID	UC9	Use Case Name		Update Employee	e Profile	
Author		VietHQ	Version	1.0	Date	17/02/2024	
Actor							
Description		The function allows Managers who have an account in the Library System to change their Profile.					
Precon	dition	PRE-01: PRE-02:					
Trigger		TRG-01:					
Post-Condition		POS-01:					
Main flow							
Step	Actor	Action					

1	Employee	Click the button and then display the screen Update Profile.	
2	System	em Validate the input on each field.	
3	3 User The user can update their profile.		

AT1	At step 1 in the main flows, if there is an internal error in the system,		
Sub step	Actor	Action	
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"	

AT2	At step 2 in the main flows, if user failed to validate password		
Sub step	tep Actor Action		
1	System	Display with message "the character less than <30".	

#### 1.16 Edit customer

#### 1.16.1 Screen Design



Table 1-16: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to the Customer Screen.
2	name_customer	Text	Yes	255	Click to change the customer's name.
3	dob_customer	Date	No		Click to change the customer's date of birth.
4	address_customer	Text	No	255	Click to change customer's address.
5	email_customer	Text	No	255	Click to change customer's email.
6	phonenumber_cus tomer	Text	No	255	Click to change the customer's phone number.

## 1.16.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Ca	se ID	UC16	Use Case Name		Edit Customer			
Author		DucTV	Version	1.0	Date	17/02/2024		
Actor		User, System						
Descrip	otion		This functionality allows a Manager or employee with an account in the System Library to change a customer's Profile.					
Precon	dition	PRE-01: PRE-02:						
Trigger		TRG-01:						
Post-Co	ondition	POS-01:						
Main flow								
Step	Actor	Action						

1	User	Click the button and then display the screen Edit Customer.
2	System	Display Edit Customer screen with the following fields:  - Name  - Date Of Birth  - Address  - Email  - Phone Number
3	User	Enter the information fields that need to be edited.
4	System	Validate the entered information and save it to the database.

AT1	At step 2 in the main flows, if there is an internal error in the system.				
Sub step	Actor	Actor Action			
2.1	System	Display "Error" page with message "Internal System Error, please contact administrator".			

AT2	At step 4 in the main flows, if the System cannot authenticate the information.				
Sub step	Actor	Actor Action			
4.1	System	Displays the "Edit customer" page with the message "The information you entered is incorrect".			

#### 1.17 View Customer

#### 1.17.1 Screen Design

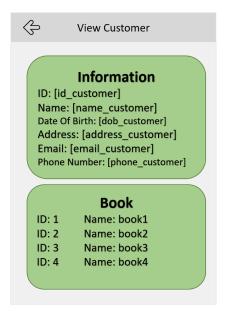


Table 1-17: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to Customer Screen.

### 1.17.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Case ID	UC17	Use Case Name		View Customer	
Author	DucTV	Version	1.0	Date	17/02/2024
Actor	User, System				
Description	Display detailed customer information				
Precondition	PRE-01: PRE-02:				

Trigger		TRG-01:	
Post-Condition		POS-01:	
Main f	low		
Step	Actor	Action	
1	User	Click the button and then display the screen View Customer.	
2	System	Display the customer's personal information and the number of books they are borrowing	

#### 1.18 Book

## 1.18.1 Screen Design



Table 1-18: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to Dashboard Screen.
2	create_book	Button			Click to create new book
3	edit_book	Button			Click to edit book
4	delete_book	Button			Click to delete book
5	book_details	Button			Show book details
6	seekbar	Seekbar			Used to slide to see more old content
7	filter	Text	No	255	Filter basic information of books
8	sort_by	Button			Click to sort by id ascending or descending

## 1.18.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Case ID	UC18	Use Case Name		Book	
Author	DucTV	Version	1.0	Date	17/02/2024
Actor	User, System				
Description	Display list of book and book function				
Precondition	PRE-01: PRE-02:				
Trigger	TRG-01:				
Post-Condition	POS-01:				
Main flow					

Step	Actor	Action
1	User	Click the button and then display the screen Book.
2	System	Display list of book and book function.
3	User	The user will select the necessary tasks.

#### 1.19 Create Book

## 1.19.1 Screen Design

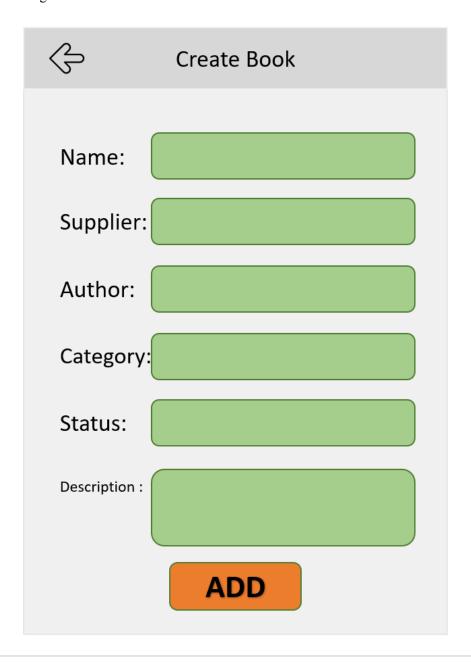


Table 1-19: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to the Book Screen.
2	name_book	Text	Yes	255	Click to enter the book's name.
3	supplier_book	Text	No	255	Click to enter the book's supplier.
4	author_book	Text	No	255	Click to enter the book's author.
5	category_book	Text	No	50	Click to enter the book's category.
6	status_book	Text	No	50	Click to enter the book's status.
7	description_book	Text	No	255	Click to enter the book's description.

## 1.19.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Case ID	UC19	Use Case Name		Create Book	
Author	DucTV	Version	1.0	Date	17/02/2024
Actor	User, System				
Description	Create new book				
Precondition	PRE-01: PRE-02:				
Trigger	TRG-01:				
Post-Condition	POS-01:				
Main flow	Main flow				

Step	Actor	Action
1	User	Click the button and then display the screen Create Book.
2	System	Display Create Book screen with the following fields:  - Name  - Supplier  - Author  - Category  - Status  - Description
3	User	Enter the information fields that need to be added.
4	System	Validate the entered information and save it to the database.

AT1	At step 2 in the main flows, if there is an internal error in the system.				
Sub step	Actor	Actor Action			
2.1	System	Display "Error" page with message "Internal System Error, please contact administrator".			

AT2	At step 4 in the main flows, if the System cannot authenticate the information.				
Sub step	Actor	Action			
4.1	System	Displays the "Create book" page with the message "The information you entered is incorrect".			

#### 1.20 Edit Book

## 1.20.1 Screen Design



Table 1-20: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to the Book Screen.
2	name_book	Text	Yes	255	Click to enter the book's name.
3	supplier_book	Text	No	255	Click to enter the book's supplier.
4	author_book	Text	No	255	Click to enter the book's author.
5	category_book	Text	No	50	Click to enter the book's category.

6	status_book	Text	No	50	Click to enter the book's status.
7	description_book	Text	No	255	Click to enter the book's description.

## 1.20.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Ca	ase ID	UC20	Use Case	Name	Edit Book		
Author	r	DucTV	Version	1.0	Date	17/02/2024	
Actor		User, System	User, System				
Descri	ption	This functionality Library to change			mployee with an a	ccount in the System	
Precon	dition	PRE-01: PRE-02:					
Trigge	r	TRG-01:					
Post-C	ondition	POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Click the button a	nd then dis	play the Ed	it Book.		
2	System	Display Edit Customer screen with the following fields: - Name - Supplier - Author - Category - Status - Description					
3	User	Enter the information fields that need to be edited.					
4	System	Validate the entere	ed informat	ion and sav	e it to the database		

AT1	At step 2 in the main flows, if there is an internal error in the system.				
Sub step	Actor	Actor Action			
2.1	System	Display "Error" page with message "Internal System Error, please contact administrator".			

AT2	At step 4 in the main flows, if the System cannot authenticate the information.					
Sub step	Actor	Actor Action				
4.1	System	Displays the "Edit book" page with the message "The information you entered is incorrect".				

#### 1.21 View book

## 1.21.1 Screen Design

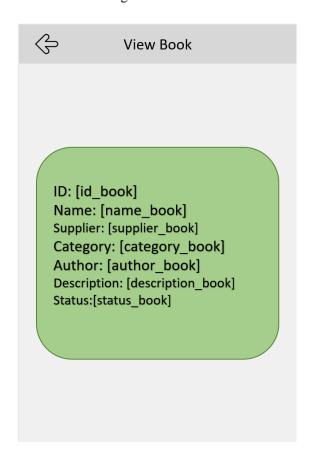


Table 1-21: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to the Book Screen.

## 1.21.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Ca	ise ID	UC21	Use Case	Name	View Book			
Author		DucTV	Version	1.0	Date	17/02/2024		
Actor		User, System	User, System					
Descri	ption	Display detailed b	ook inform	nation				
Precon	dition	PRE-01: PRE-02:						
Trigge	r	TRG-01:						
Post-C	ondition	POS-01:						
Main f	low							
Step	Actor	Action						
1	User	Click the button and then display the screen View Customer.						
2	System	Display the custor borrowing	Display the customer's personal information and the number of books they are borrowing					

## 1.22 Staff

## 1.22.1 Screen Design



Figure 3-1: Screen Design of Staff

Table 1-1: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to dashboard.
2	Feature	Text			
3	Create Staff	ImageButton			Click to change screen to add staff
4	Staff information	Text			Staff information
5	Edit Staff	ImageButton			Click to change screen to edit profile of staff

6	View Staff	ImageButton		Click to change screen to view profile of staff
7	Seekbar	Seekbar		Used to slide to see more old content

## 1.22.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Ca	ise ID	UC22	Use Case	Name	Staff		
Author		BaoTQ	Version	1.0	Date	17/02/2024	
Actor		LMS					
Descrip	ption	A screen display all staff.					
Precon	dition	PRE-01: PRE-02:					
Trigge	r	TRG-01:					
Post-C	ondition	POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Select the Staff fea	Select the Staff feature on the dashboard				
2	LMS	Display Staff screen with the following fields: - Back - Create feature - Name feature - Information staff - Edit feature - View feature - Seekbar					
3	User	User use seekbar	to slide to	see more old	d content		
4	User	User click icon to	add new st	aff			
5	User	User click icon to edit or delete staff					
6	User	User click icon to	view profi	le staff			

### 1.23 Create staff

## 1.23.1 Screen Design

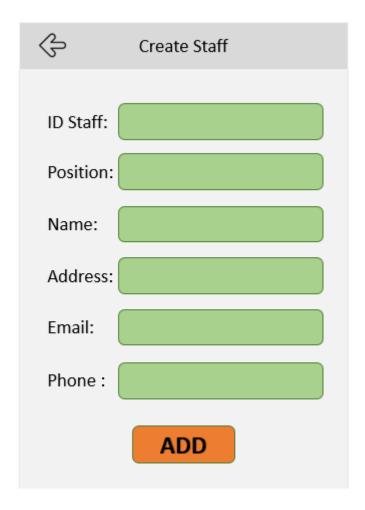


Figure 3-1: Screen Design of Create staff

Table 1-1: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to Staff screen
2	Feature	Text			
3	ID Staff	Text	Yes	4	Only number
4	Position	Text	Yes		
5	Name	Text	Yes		Only word

6	Address	Text	Yes	
7	Email	Text	Yes	Must have @
8	Phone	Text	Yes	Only number
9	Add	Button		

## 1.23.2 Use case Specification

Figure 3-2: Create staff Use-Case Diagram

Use Ca	ise ID	UC23	Use Case	Name	Create staff				
Author	-	BaoTQ	Version	1.0	Date	17/02/2024			
Actor		LMS User	LMS User						
Descri	ption	Write information	of Staff an	d add him t	o System.				
Precondition PRE-01: PRE-02:									
Trigger TRG-01:									
Post-Condition POS-01:									
Main f	low								
Step	Actor	Action							
1	User	Select the Create S	Staff featur	e on the Sta	ff Screen				
2	LMS	Display Create Staff screen with the following fields: - Back - Name feature - Text - Button							
3	User	User write all information of Staff to add							
4	User	User click button	to add new	staff					

AT1
-----

Sub step	Actor	Action
4.1	LMS	Display "Confirm" page with message "Comfirm to add new staff"

#### 1.24 Edit staff

#### 1.24.1 Screen Design



Figure 3-1: Screen Design of Edit staff

Table 1-1: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to Staff screen
2	Feature	Text			
3	ID Staff	Text	Yes	4	Only number
4	Position	Text	Yes		
5	Name	Text	Yes		Only word
6	Address	Text	Yes		
7	Email	Text	Yes		Must have @
8	Phone	Text	Yes		Only number
9	Change	Button			

## 1.24.2 Use case Specification

Figure 3-2: Edit staff Use-Case Diagram

Use Ca	ise ID	UC24	Use Case	Name	Edit staff			
Author		BaoTQ	Version	1.0	Date	17/02/2024		
Actor		LMS User	LMS User					
Descrip	otion	Edit information of	Edit information of Staff.					
Precon	dition	PRE-01: PRE-02:						
Trigger TRG-01:								
Post-Condition POS-01:								
Main f	low							
Step	Actor	Action						
1	User	Select the Edit Staff feature on the Staff Screen						
2	LMS	Display Create Sta - Back	Display Create Staff screen with the following fields: - Back					

		- Name feature - Text - Button
3	User	User can edit any information of Staff
4	User	User click button to edit success

AT1		
Sub step	Actor	Action
4.1	LMS	Display "Confirm" page with message "Comfirm to edit staff success"

#### 1.25 View staff

## 1.25.1 Screen Design



Figure 3-1: Screen Design of View staff

Table 1-1: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to Staff screen
2	Feature	Text			
3	Information Staff	Text			

## 1.25.2 Use case Specification

Figure 3-2: View staff Use-Case Diagram

Use Ca	ise ID	UC25	Use Case	Name	View staff		
Author	-	BaoTQ	Version	1.0	Date	17/02/2024	
Actor	LMS						
Description Show information of Staff							
Precondition PRE-01: PRE-02:							
Trigger TRG-01:							
Post-Condition POS-01:			POS-01:				
Main f	low						
Step	Actor	Action					
1	User	Select the Vew Staff feature on the Staff Screen					
2	LMS	Display View Staff screen with the following fields: - Back - Name feature - Text					

## 1.26 Statistics Principal

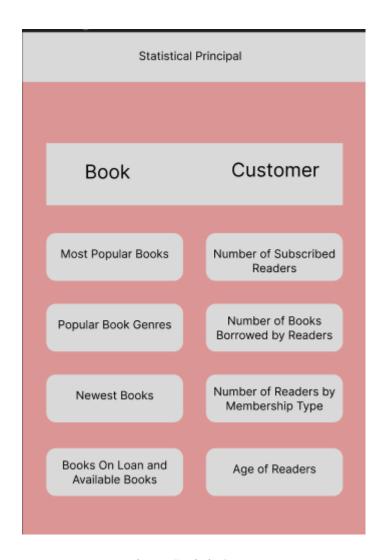


Figure: Statistic Screen

#### **Table Definition**

#	Field Name	Туре	Mandatory	Max Length	Description
1	Popular Book Genres	Button	None	None	Shows the most borrowed books in a specific time period.
2	Most Popular Books	Button	None	None	List the most borrowed book genres, helping you

					understand readers' reading preferences.
3	Newest Books	Button	None	None	Displays a list of new books added to the library.
4	Books On Loan and Available Books	Button	None	None	Books being borrowed and books available: Displays the ratio of books being borrowed compared to the total number of books available in the library, helping you evaluate the library's book usage status.
5	Number of Subscribed Readers	Button	None	None	Displays the total number of registered readers in the library.
6	Number of Books Borrowed by Readers	Button	None	None	Lists the number of books each reader has borrowed, helping you understand the level of service usage by each reader.
7	Number of Readers by Membership Type	Button	None	None	umber of readers by membership type: If the library has a membership system, you can count the number of readers by each member type (for example: regular members, VIP members).
8	Age of Readers	Button	None	None	Age of readers: If you have this information, you can calculate the average age of readers to understand the age distribution of readers using the library.

Use Case ID	UC26	Use Case Name		Statistics Principal	
Author	ThanhNT	Version	1.0	Date	17/02/2024
Actor					
Description	Screen allowing manager who has an account in the system to view statistics.				

Precondition PRE-01: PRE-02:		
Trigge	Γ	TRG-01:
Post-Condition POS-01:		POS-01:
Main flow		
Step Actor Action		Action
1	Manager Click on button Statistic in the screen	
2	System Display screen Statistics Principal.	
3	Manager	Click one of the Button in the Screen will display information based on that button.

AT1	At step 1 in the main flows, if there is an internal error in the system,				
Sub step	Actor	Actor Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

AT2	At step 2 in the main flows, if there is an internal error in the system,			
Sub step	Actor Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"		

AT3	At step 3 in the main flows, if there is an internal error in the system,			
Sub step	Actor	Actor Action		
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"		

#### 1.27 Statistics Book

#### 1.27.1 Statistics Book Screen

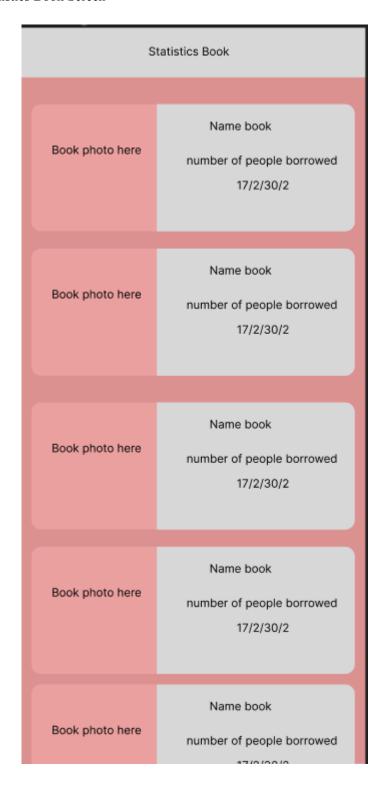


Figure: Statistics Book

#	Field Name	Туре	Mandatory	Max Length	Description
1	Book photo	Image	None	None	Display book photo
2	Book name	Text	None	None	Display book name
3	Number of people borrowed	Text	None	None	Display number of people borrowed
4	Time to time	Text	None	None	Shows the most borrowed books in a specific time period.

Use Ca	ise ID	UC27	UC27 Use Case Name		Statistics Book		
Author		ThanhNT	Version	1.0	Date	17/02/2024	
Actor							
Descrip	ption	Screen allowing manager who has an account in the system to view statistics books. Depending manager click on button in the screen it will display information corresponding					
Precondition		PRE-01: PRE-02:					
Trigger TRG-01:							
Post-Condition POS-01:							
Main f	Main flow						
Step	Actor	Action					
1	Manager	Click on button Statistic book in the screen					
2	System	Display screen Statistics.					
3	Manager	Click one of the B button.	Click one of the Button in the Screen will display information based on that button.				

AT1	At step 1 in the main flows, if there is an internal error in the system,				
Sub step	Actor	Actor Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

AT2	At step 2 in the main flows, if there is an internal error in the system,			
Sub step	Actor	Actor Action		
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"		

AT3	At step 3 in the main flows, if there is an internal error in the system,				
Sub step	Actor	Actor Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

#### 1.28 Statistics Customer

### 1.28.1 Screen Statistics Customer

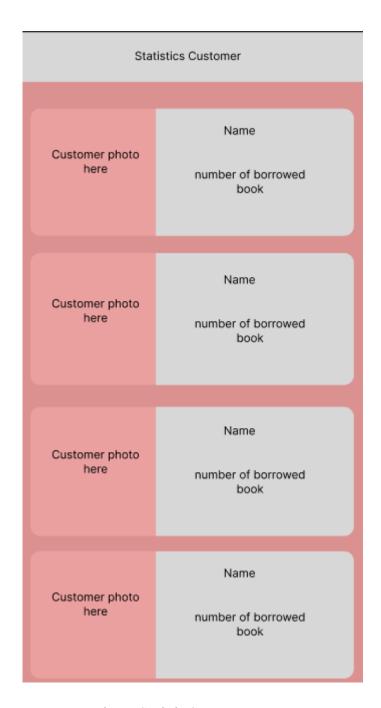


Figure: Statistic Customer

#	Field Name	Туре	Mandatory	Max Length	Description
1	Book photo	Image	None	None	Display book photo
2	Book name	Text	None	None	Display book name

3	Number of people borrowed	Text	None	None	Display number of people borrowed
4	Time to time	Text	None	None	Shows the most borrowed books in a specific time period.

Use Ca	ise ID	UC28	Use Case Name Statistics Customer		er		
Author		ThanhNT	Version	1.0	Date	17/02/2024	
Actor							
Descrij	otion	Screen allowing manager who has an account in the system to view statistics Customer. Depending manager click on button in the screen it will display information corresponding					
Precondition		PRE-01: PRE-02:					
Trigge	r	TRG-01:					
Post-C	ondition	POS-01:					
Main f	low						
Step	Actor	Action					
1	Manager	Click on button St	Click on button Statistic Customer in the screen				
2	System	Display screen Statistics.					
3	Manager	Click one of the B button.	Click one of the Button in the Screen will display information based on that				

AT1	At step 1 in the	At step 1 in the main flows, if there is an internal error in the system,				
Sub step	Actor	Actor Action				
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"				

AT2	At step 2 in the	At step 2 in the main flows, if there is an internal error in the system,			
Sub step	Actor	Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

AT3	At step 3 in the	At step 3 in the main flows, if there is an internal error in the system,			
Sub step	Actor	Action			
1	System	Display "Error" page with message "Internal System Error, please contact with administrator"			

### 1.29 History

### 1.29.1 Screen Design

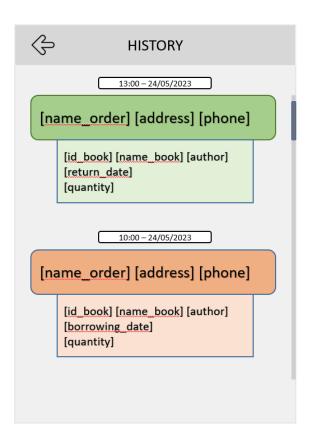


Figure 3-1: Screen Design of History

Table 1-1: Screen Definition

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	ImageButton			Click can return to dashboard.
2	Feature	Text			
3	Date and time	Text			
4	Borrower information	Text			Borrower information included name, address, phone,
5	Books borrowed and returned	Text			Information about books borrowed and returned
6	Seekbar	Seekbar			Used to slide to see more old content

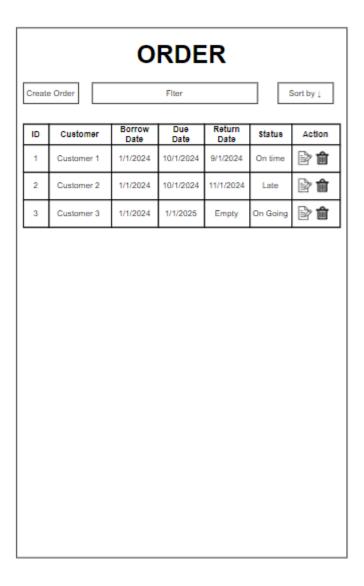
## 1.29.2 Use case Specification

Figure 3-2: History Use-Case Diagram

Use Ca	se ID	UC29	Use Case	Name	History		
Author		ThànhNT	Version	1.0	Date	17/02/2024	
Actor		LMS					
Descrip	otion	A screen display t books.	A screen display the borrowing history of a borrower, showing details of borrowed books.				
Precon	dition	PRE-01: PRE-02:					
Trigger	-	TRG-01:					
Post-Co	ondition	POS-01:					
Main fl	low						
Step	Actor	Action					
1	User	Select the History	feature on	the dashboa	ard		

2	LMS	Display History screen with the following fields: - Back - Name feature - Date and time - Information customer - Information book - Seekbar
3	User	Uesr use seekbar to slide to see more old content

# 10. Order



#	Field Name	Туре	Mandatory	Max Length	Description
1	create_order	Button			Click to create new order
2	edit_order	Button			Click to edit order
3	delete_order	Button			Click to delete order
4	list_order	Recyclerview			Show list of order
5	order_details	Button			Show order details

Use Ca	ise ID	UC10	Use Case	Name	List Order		
Author	•	TuanTD	Version	1.0	Date	17/02/2024	
Actor		Staff A, Staff B, Manager					
Descrip	ption	Display list of ord	er and orde	er function			
Precon	dition	PRE-01: Login PRE-02:					
Trigger	r	TRG-01: User clic	ck Button "	Order" in D	ashboard		
Post-C	ondition	dition POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Logs into the Syst	em using v	alid credent	tials.		
2	System	Display with the s	ystem dash	ıboard.			
3	User	Click the "Order" Button from the system's dashboard.					
4	System	Show list of order and order function					
5	User	View all order and	decides to	Create/ Ed	it/ Delete order		

Alternative flows: None

## 11. Create Order

Create	New Order
ID Customer  Description  Borrowed Date  Due Date  Status  Create at  Create by  Update at  Update by  Delete at  Delete by	
	Save

#	Field Name	Туре	Mandatory	Max Length	Description
1	order_id	Text	Yes	100	Enter order ID
2	order_customer	Text	Yes	255	Enter customer order
3	order_description	Text	Yes	255	Enter description
4	borrow_date	Date	Yes		Enter borrow date
5	due_date	Date	Yes		Enter due date
6	status	Text	Yes		Enter status
7	create_at	Date	Yes		Enter create date
8	create_by	Text	Yes	255	Enter staff create
9	update_at	Date	No		Enter update date
10	update_by	Text	No	255	Enter staff update
11	delete_at	Date	No		Enter delete date
12	delete_by	Text	No	255	Enter staff delete
13	button_save	Button	No		Save

Use Ca	ise ID	UC11	Use Case Name		Use Case Name Create Order		
Author		TuanTD	Version	1.0	Date	17/02/2024	
Actor		Staff A, Staff B, N	Manager				
Descrip	otion	Create new order	Create new order				
Precon	dition	PRE-01: Login PRE-02:					
Trigger	ſ	TRG-01: User clic	ck Button "	Create Orde	er"		
Post-Co	ondition	POS-01:					
Main fl	Main flow						
Step	Actor	Action					

1	User	Logs into the System using valid credentials.
2	System	Display with the system dashboard.
3	User	Click the "Order" Button from the system's dashboard.
4	System	Show list of order and order function
5	User	Click the button Create order
6	System	Show the create order form
7	User	Enter all order information and click button Save
8	System	Add new order to order list and return Order screen

AT1		
Sub step	Actor	Action
1	User	Decides to cancel the operation at any point during the process
2	System	Return to the list of order without saving any changes.

# 12. Edit Order

Edit Order			
ID Customer	#1 Customer 1		
Description			
Borrowed Date			
Due Date			
Status			
Create at			
Create by			
Update at			
Update by			
Delete at			
Delete by			
	Save		

#	Field Name	Туре	Mandatory	Max Length	Description
1	order_description	Text	Yes	255	Enter description
2	borrow_date	Date	Yes		Enter borrow date
3	due_date	Date	Yes		Enter due date
4	status	Text	Yes		Enter status

5	create_at	Date	Yes		Enter create date
6	create_by	Text	Yes	255	Enter staff create
7	update_at	Date	No		Enter update date
8	update_by	Text	No	255	Enter staff update
9	delete_at	Date	No		Enter delete date
10	delete_by	Text	No	255	Enter staff delete
11	button_save	Button	No		Save

Use Ca	se ID	UC12	Use Case Name		Edit Order		
Author		TuanTD	Version         1.0         Date         17/02/2024				
Actor		Staff A, Staff B, Manager					
Descrip	otion	Create new order					
Precon	dition	PRE-01: Login PRE-02:					
Trigger	-	TRG-01: User clic	ck Button "	Edit Order"			
Post-Co	ondition	POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Logs into the Syst	em using v	alid credent	ials.		
2	System	Display with the s	ystem dash	ıboard.			
3	User	Click the "Order"	Button from	m the syster	n's dashboard.		
4	System	Show list of order	and order	function			
5	User	Click the button Edit order					
6	System	Show the edit order form					
7	User	Edit order information and click button Save					
8	System	Change order info	rmation ar	nd return Or	der screen		

AT1		
Sub step	Actor	Action
1	User	Decides to cancel the operation at any point during the process
2	System	Return to the list of order without saving any changes.

# 13. View order

Back	View Order				
ID		#1			
Customer		Customer 1			
Description		abcd			
Borrowed Date		01/01/2024			
Due Date		30/04/2024			
Status	On Going				
Create at		01/01/2024			
Create by		Staff A			
Update at		Empty			
Update by		Empty			
Delete at		Empty			
Delete by		Empty			
	Book				
ID	Name	Number			
123	Book 1 1				

#	Field Name	Туре	Mandatory	Max Length	Description
1	Back	Button			Click to return Order
2	list_order	Recyclerview			Show list of book in order

Use Case ID		UC13	Use Case	Name	View Order		
Author		TuanTD	Version	1.0	Date	17/02/2024	
Actor		Staff A, Staff B, N	/Janager				
Descrij	otion	Display order deta	nils				
Precondition		PRE-01: Login PRE-02:					
Trigger	r	TRG-01: User clic	ck the ID o	f the Order	in Order list		
Post-C	ondition	POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Logs into the System using valid credentials.					
2	System	Display with the system dashboard.					
3	User	Click the "Order" Button from the system's dashboard.					
4	System	Show list of order and order function					
5	User	User click the ID of the Order in Order list					
6	System	Show the detail of order					

Alternative flows: None

## 14. Customer

CUSTOMER						
Create Customer Search by name Sort by ↓						
ID	Name	Status	Phone	Address	Email	Action
1	Customer 1	Active	0123456789	Ha Noi	abc@email	<b>₽</b>
2	Customer 2	Active	0987654321	Ha Noi	xyz@email	<b>₽</b>
3	Customer 3	Global Ban	0966666666	ТР НСМ	123@email	<b>₽</b>

#	Field Name	Туре	Mandatory	Max Length	Description
1	create_customer	Button			Click to create new customer
2	edit_customer	Button			Click to edit customer
3	delete_customer	Button			Click to delete customer
4	list_customer	Recyclerview			Show list of customers
5	customer_details	Button			Show customer information

Use Case ID		UC14	Use Case	Name	Customer		
Author		TuanTD	Version	1.0	Date	17/02/2024	
Actor		Staff A, Staff B, N	/lanager				
Descrij	ption	Display list of ord	er and orde	er function			
Precondition		PRE-01: Login PRE-02:					
Trigger		TRG-01: User click Button "Customer" in Dashboard					
Post-Condition		POS-01:					
Main f	low						
Step	Actor	Action					
1	User	Logs into the System using valid credentials.					
2	System	Display with the system dashboard.					
3	User	Click the "Customer" Button in the system's dashboard.					
4	System	Show list of Customer and Customer function					

Alternative flows: None

# 15. Create Customer

Create	Create New Customer				
ID Name Date of birth Address					
Phone Email Create at					
Create by Update at Update by Delete at					
Delete by	Save				

#	Field Name	Туре	Mandatory	Max Length	Description
1	customer_id	Text	Yes	100	Enter customer ID
2	customer_name	Text	Yes	255	Enter customer name
3	date_of_birth	Date	No		Enter date of birth
4	address	Text	Yes	255	Enter customer address
5	phone	Number	Yes	20	Enter customer phone
6	email	Text	Yes	255	Enter customer email
7	create_at	Date	Yes		Enter create date
8	create_by	Text	Yes	255	Enter staff create
9	update_at	Date	No		Enter update date
10	update_by	Text	No	255	Enter staff update
11	delete_at	Date	No		Enter delete date
12	delete_by	Text	No	255	Enter staff delete
13	button_save	Button	No		Save

Use Ca	ise ID	UC15	Use Case Name		Create Customer			
Author		TuanTD	Version	1.0	Date	17/02/2024		
Actor		Staff A, Manager						
Description		Create new custor	Create new customer					
Precondition		PRE-01: Login PRE-02:						
Trigger		TRG-01: User click Button "Create Customer"						
Post-Condition		POS-01:						
Main flow								
Step	Actor	Action						

1	User	Logs into the System using valid credentials.		
2	System	Display with the system dashboard.		
3	User	Click the "Customer" Button from the system's dashboard.		
4	System	Show list of customer and customer function		
5	User	Click the button Create Customer		
6	System	Show the create customer form		
7	User	Enter all customer information and click button Save		
8	System	Add new customer to customer list and return Customer screen		

AT1		
Sub step	Actor	Action
1	User	Decides to cancel the operation at any point during the process
2	System	Return to the list of order without saving any changes.