

ASSIGNMENT 1 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Business		
Unit number and title	Unit 30: Application Development		
Submission date	14/02/2023	Date Received 1st submission	
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Student declaration <p>I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.</p>			
		Student's signature	Nhat

Grading grid

P1	P2	P3	M1	M2	D1

☐ Summative Feedback:

☐ Resubmission Feedback:

Grade:

Assessor Signature:

Date:

Internal Verifier's Comments:

Signature & Date:

Assignment Brief 1 (RQF)

Higher National Certificate/Diploma in Computing

Student Name/ID Number:	
Unit Number and Title:	Unit 30: Application Development
Academic Year:	2021 – 2022
Unit Assessor:	Hoang Nhu Vinh
Assignment Title:	Analysis and Design solution for a given problem
Issue Date:	10 May 2022
Submission Date:	
Internal Verifier Name:	
Date:	

Submission Format:
<p><i>Format: The submission is in the form of two documents/files</i></p> <ul style="list-style-type: none">• An individual SRS document in PDF format. Writing must be professional.• An individual evaluation document in PDF format. Writing must be professional. <p><i>Submission</i></p> <ul style="list-style-type: none">• Students are compulsory to submit the assignment on the due date and in a way requested by the Tutor.• The form of submission will be a soft copy posted on http://cms.greenwich.edu.vn/.• Remember to convert the word file into a PDF file before the submission on CMS. <p><i>Note:</i></p> <ul style="list-style-type: none">• The individual Assignment <i>must</i> be your work, and not copied by or from another student.• If you use ideas, quotes, or data (such as diagrams) from books, journals, or other sources, you must reference your sources, using the Harvard style.• Make sure that you understand and follow the guidelines to avoid plagiarism. Failure to comply with this requirement will result in a failed assignment.
Unit Learning Outcomes:

LO1 Produce a Software Design Document by analyzing a business-related problem and deduce an appropriate solution including a set of initial requirements

LO2 Use design and development methodologies with tools and techniques associated with the creation of a business application

Assignment Brief and Guidance:

Scenario: FPTBook will be a web-based software system to aid book store customers and owners to manage their book purchases and sales about simplifying and speeding up the process of selection, ordering, and purchasing books for customers as well as managing a database of users and a database of products for book store owners. The attached document can view the detailed description of those roles (Requirements.docx).

Tasks

You and your teammates (3 members/team maximum) need to prepare a software design document with the following sections:

- A requirement specification that explores the problem by a set of user and system requirements, as well as determines any risks related to the successful completion of your application. You are advised to use an SRS template or modify one to complete this task.
- An evaluation section in which you research the use of software development tools and techniques and identify any that have been selected for the development of this application. You should compare them and justify your choices.
- A design section in which you use chosen tools from the previous step to produce design diagrams for your solution based on the requirement specification.

Learning Outcomes and Assessment Criteria (Assignment 1):			
Learning Outcome	Pass	Merit	Distinction
LO1	<p>P1 Explore a business-related problem and produce a well-defined Problem Definition Statement supported by a set of user and system requirements.</p> <p>P2 Determine any areas of risk related to the successful completion of your application.</p>	<p>M1 Analyse a business-related problem using appropriate methods and produce a well-structured Software Design Document that defines a proposed solution and includes relevant details on requirements, system analysis, system design, coding, testing and implementation.</p>	<p>D1 Justify the tools and techniques chosen to realise a custom built website. Justify your preferred selection of tools and techniques in deducing an appropriate solution to a business related problem.</p>
LO2	<p>P3 Research the use of software development tools and techniques and identify any that have been selected for the development of this application.</p>	<p>M2 Compare the differences between the various software development tools and techniques researched and justify your preferred selection as well as your preferred software development methodology.</p>	

Software Requirements Specification

for

Online book sales management project FPTBook

Version <1.0>

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Course: Application Development

Date: 14/02/2023

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Revisions

Version	Primary Author(s)	Description of Version	Date Completed
1.0	Huynh Thanh Nhan		14/02/2023

1 Introduction (P1)

1.1 Document Purpose

The purpose of the Software Requirements Specification document is to clearly define the system under development, namely the Online Book Sales Management (OBSM). The intended audience of this document includes the owner of the book store and end users of the OBSM. Other intended audience includes the development team such as the requirements team, requirements analyst, design team, and other members of the developing organization

1.2 Product Scope

The owner of a store wanted to create a website to sales their book on the internet to increase the store's book sales and give customers the ability to order books even while at home and the store can decrease the number of staff need to manage the store. so this website will allow customers to create an account and manage their information and purchase history, search for books, view details about the store's books, order selected books and makes a request for admin to reset their password if they forget. The shop owner can add, edit or delete books in the store, makes a request for the admin to add a category of books that do not exist in the system, request the admin to reset the password if the shop owner forgets, manage all orders in the store. Statistic how the store's parameters such as best-selling books, revenue ... also on the admin side can receive requests from customers and shop owners.

1.3 Intended Audience and Document Overview

This document is intended:

Guest - anyone who access to the website of this website without account.

Customer – anyone who registers an account and be a member in FPTBook.

Shop owner- the person owner this store.

Admin – who manage FPTBook system in the store.

The rest of the document is 1.4 which defines the terms and acronyms contained herein. 1.5 is the reference for this document. Then in 2.1 an overview of this system will be presented. In 2.2 will state the functions will be in the system. 3.1 states the required functions. In 3.2 will present the usecase diagram of the system. In 3.3 will present wireflow. In 4.1 will present the ERD diagram of the system. In 4.2 will present the class diagram of the system. In 4.3 will present the Activity diagram. In 4.4 will present the gantt chart. Finally, section 5 will present the possible risks to the system.

With the guest and customer I recommend they should read 1.4, 2.1 2.2 because all things they want to know that all the function of this website. Next the shop owner should read like the customer and guest and read more 3.1 and part 5 because with 3.1 the owner shop can knows that the functions that they were requested to develop are being develop part 5 lets the shop owner knows the risk of this website. Admin should read all things in this document to clearly understand about this system.

1.4 Definitions, Acronyms and Abbreviations

OBSM stand for Online Book Sales Management

ERD stand for Entity–Relationship Diagram

1.5 References and Acknowledgments

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2 Overall Description (P1)

2.1 Product Overview

FPTBook will be a web-based software application that will help both book shop customers and owners manage their book purchases and sales by simplifying and speeding up the process of book selection, ordering, and purchase for customers as well as by managing a database of customers and a database of items for book store owners. Fptbook is a website so the customer doesn't need come to shop to buy the book it will increase the customer experience.

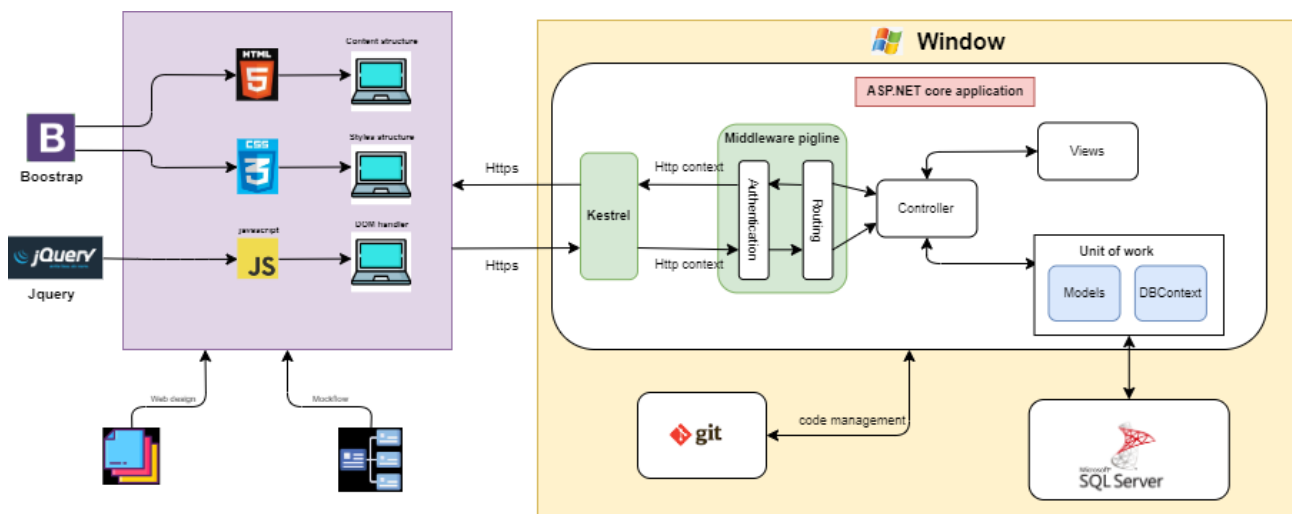


Figure 1. System design

2.2 Product Functionality

Customer:

- Login in to website
- Create new account
- Manage order history and personal information
- Search books
- View book detail
- Request reset password
- Manage cart
- Order

Owner shop have all function like customer and some other functions:

- Manage book: add, edit, delete book
- Request add more category
- Statistic
- Manage order in the store

Admin have all function like owner shop and some other function:

- Manage request
- Reset password

3 Specific Requirements (P1 & M1)

3.1 Functional Requirements (P1)

ID	AS A < TYPE OF USER >	I WANT TO < PERFORM SOME TASK >	SO THAT I CAN < ACHIEVE SOME GOAL >
1	Owner shop	Each customer have to login into the website when they order a/many book from the website.	Know their address to makes the delivery process easier
2	Customer	Make a request to reset password when it be forgot.	Don't worry about the forgetting the password
3	The owner shop	View all the orders of all customers in the store	Save the time to check the order of customer
4	Owner shop	Add, edit, delete the books can be sold on the website	easier book management of the store
5	Customer	Manage all the their orders from the pass to present	Know all things be bought of this store
6	Customer	Searching book by name	Easier to find the book they want
7	Customer	Can buy multiple books at once	Save a lot of time compared to buy each book at once
8	Customer	Can changes their information or password	Edit the information of password when necessary

9	Admin	Each the category be added into the system subject to approval	Can controller all the category be added into the system
10	Admin	Can changes password all accounts in the system without the current password of the accounts	Can changes the users password anytime they need
11	Customer	Can view the detail of book without login	Can view some new book without login

3.2 Use Case Model (P1)

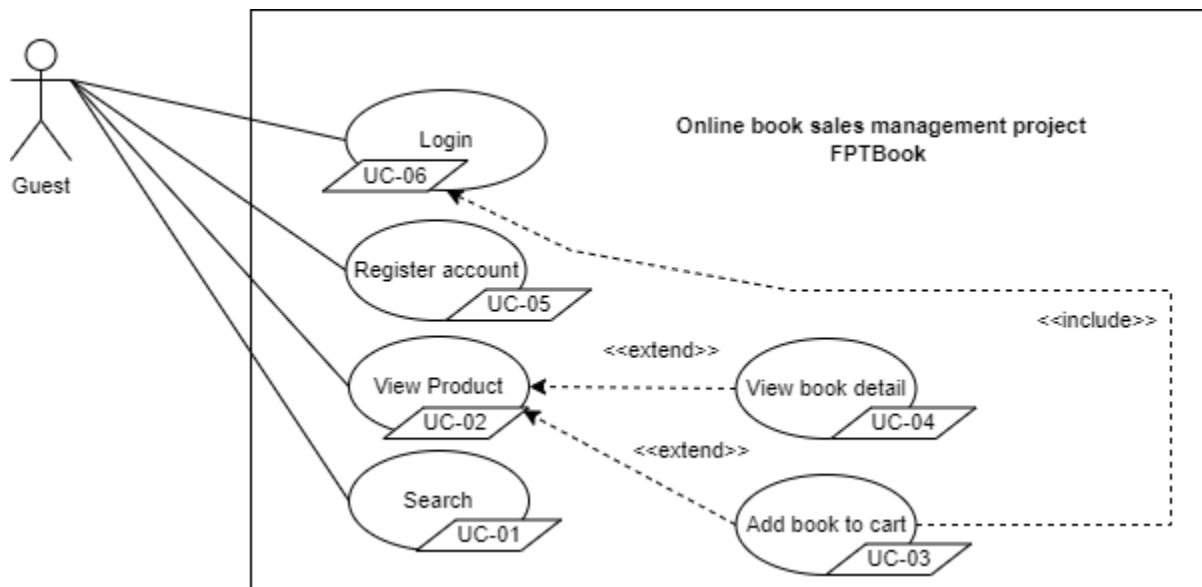


Figure 2. Usecase(1)

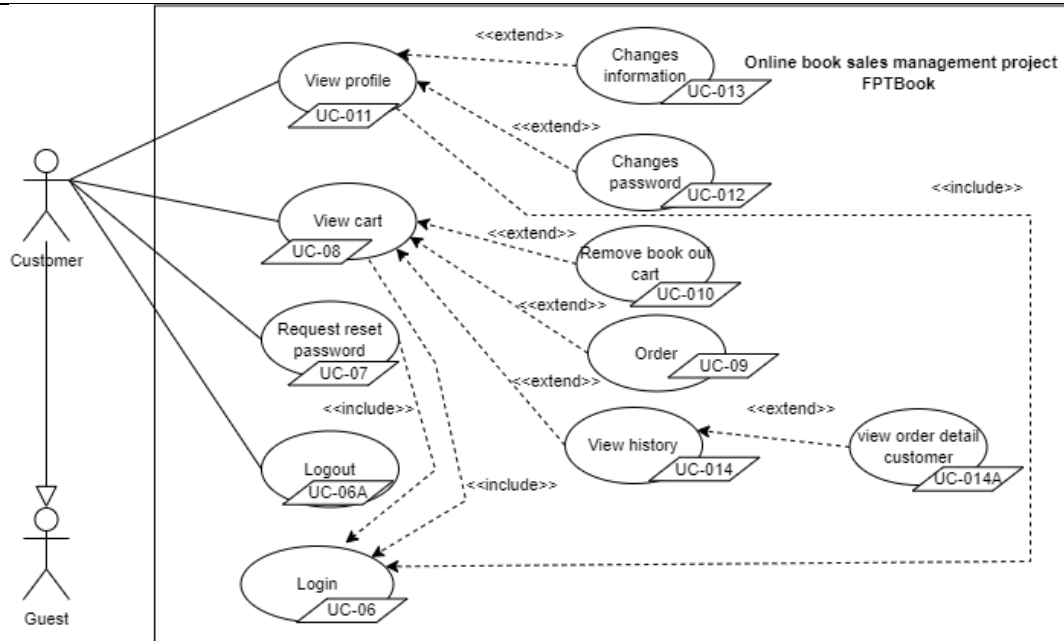


Figure 3. Usecase(2)

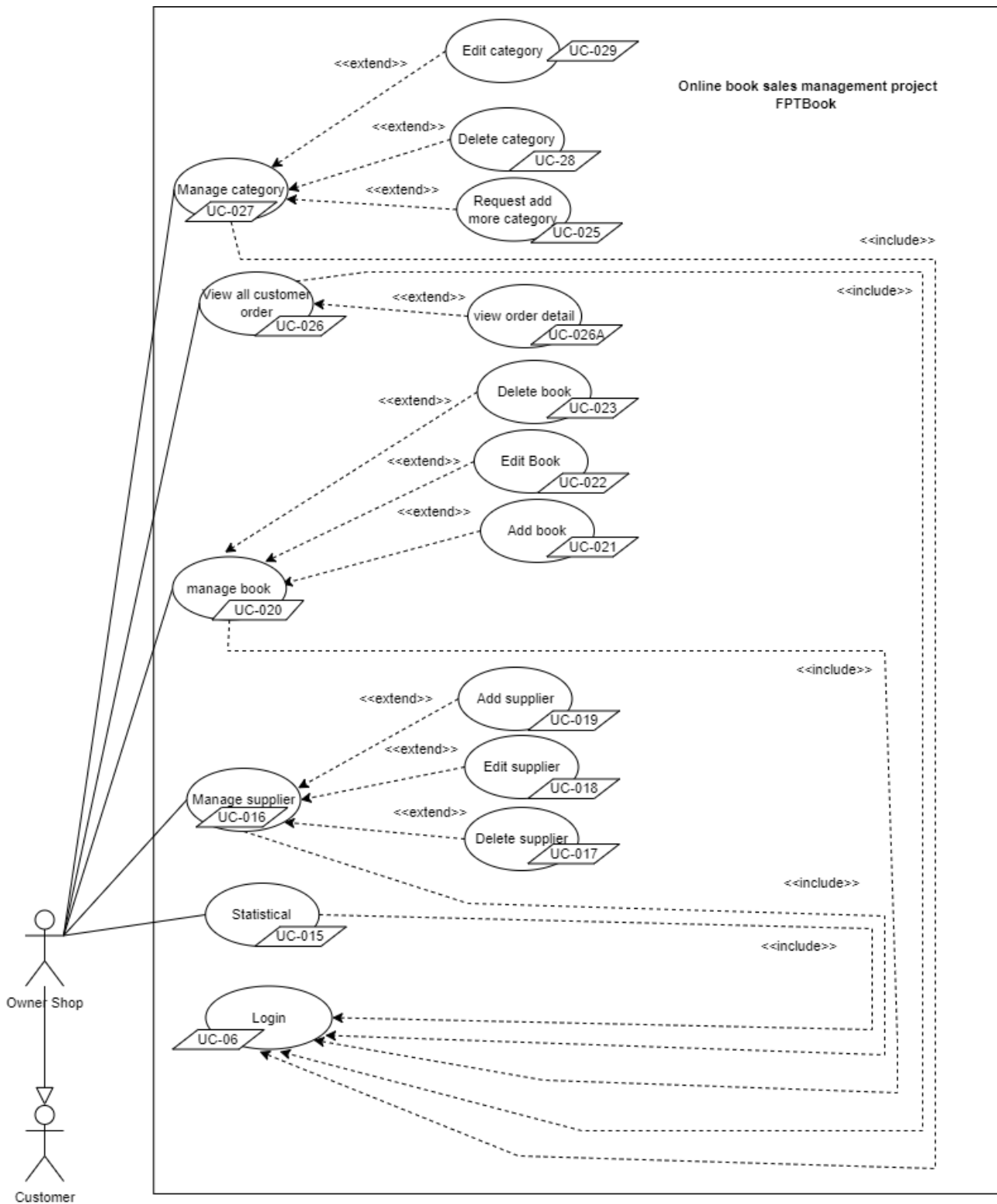


Figure 4. Usecase(3)

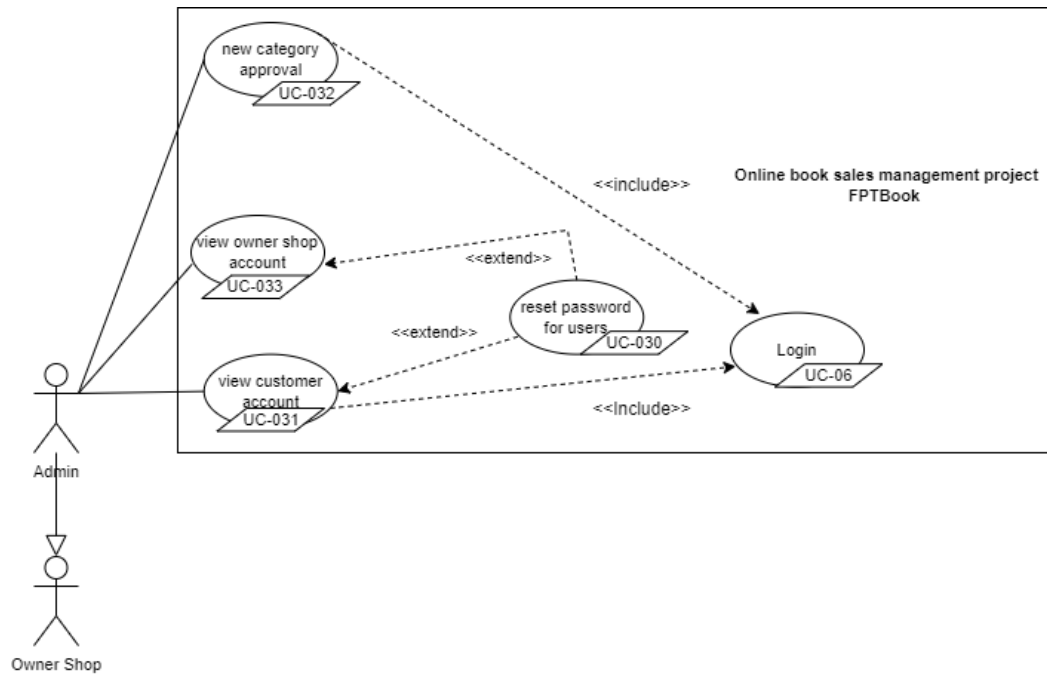
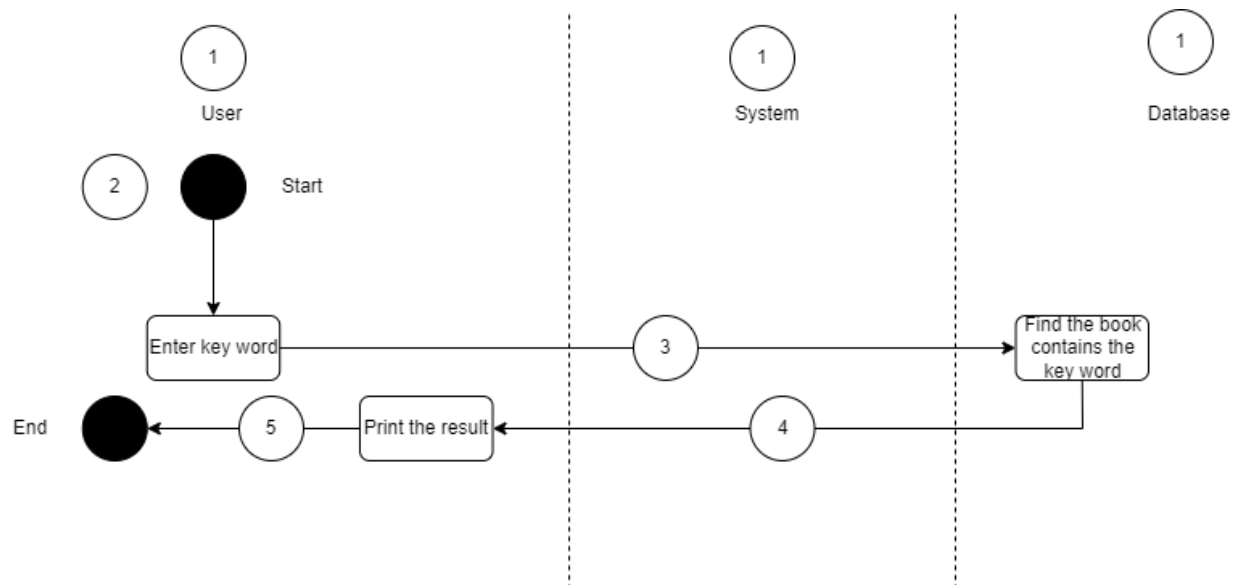


Figure 5. Usecase(4)

Specific description:**Table 1. UC-01 Search**

Use Case Name: Search	ID: UC-01	Priority: Low	Author: Nhan
Actor: Guest			
Description: this case describes how guest search book in the system			
Trigger: Guest want to find the book in the system			
Type: External			
Preconditions:			
Normal Couse: 1. Enter the key word 2. The result be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the Guest want to search book in website they will enter the keyword then the system will access to database get all book contain the keyword and display the result on the screen. This function is working like the below diagram.

**Figure 6. Activity of Search function****Table 2. UC-02 View Book**

Use Case Name: View book	ID: UC-02	Priority: Low	Author: Khang
Actor: Guest			
Description: this case describes how guest view book in the system			
Trigger: The guest access into website			
Type: External			
Preconditions:			
Normal Couse: 1. Access the home page of website			

Alternative Flow:
Post conditions:
Exceptions:

When the Guest access into website system will access to database get all book display the result on the screen. This function is working like the below diagram.

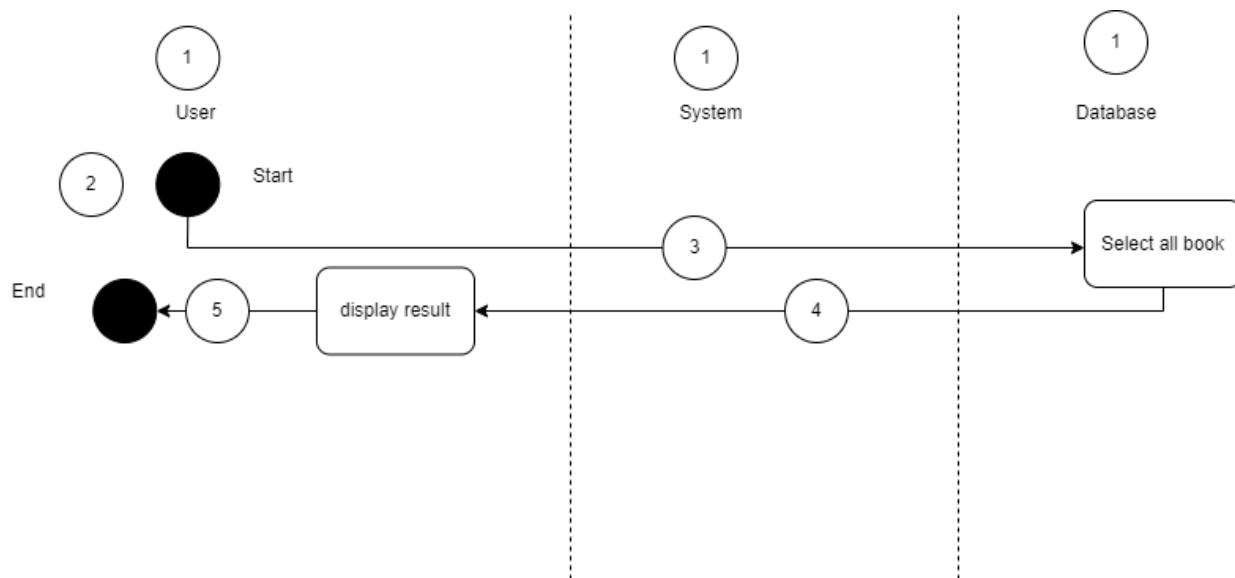


Figure 7. Activity of View book function

Table 3. UC- 03 Add book to cart

Use Case Name: Add book to cart	ID: UC-03	Priority: Medium	Author: Nhan
Actor: Guest			
Description: this case describes how guest add a book to cart			
Trigger: Guest want to add a book to cart			
Type: External			
Preconditions:			
1. The guest must login			
Normal Couse:			
1. Click on the book want to add			
2. The book add in the cart			
Alternative Flow: the book already in cart			
2.1 The quantity book in cart increase 1 unit			
Post conditions:			
Exceptions:			

When the guest want to add a book to their cart they need make sure that they were login into the website, choose the book they want to add and the system will check that are the book already in cart or not if the book is already in the cart the quantity of this book will increase 1 unit if not a new book will be add to cart. This function is working like the below diagram.

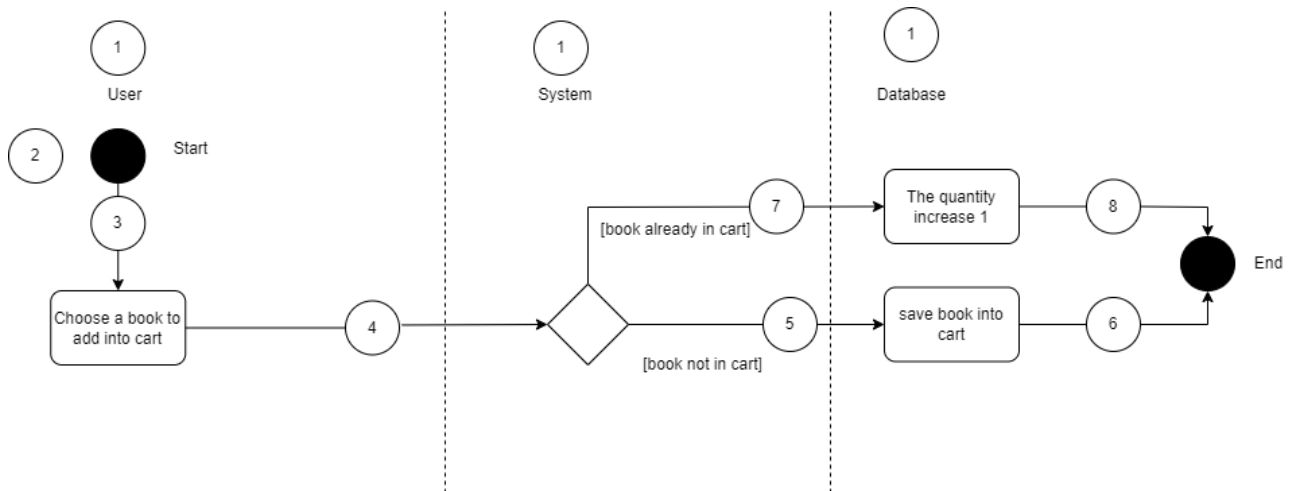


Figure 8. Activity of add book to cart function

Table 4. UC-04 View book detail

Use Case Name: View book detail	ID: UC-04	Priority: Low	Author:Khang
Actor: Guest			
Description: this case describes how guest view detail of book in the system			
Trigger: Guest want to view detail of a book			
Type: External			
Preconditions:			
Normal Couse:			
1. click on the book			
2.			
Alternative Flow:			
Post conditions:			
Exceptions:			

When guest want to view detail of a book they just click on the book and the detail page will be displayed. This function is working like the below diagram.

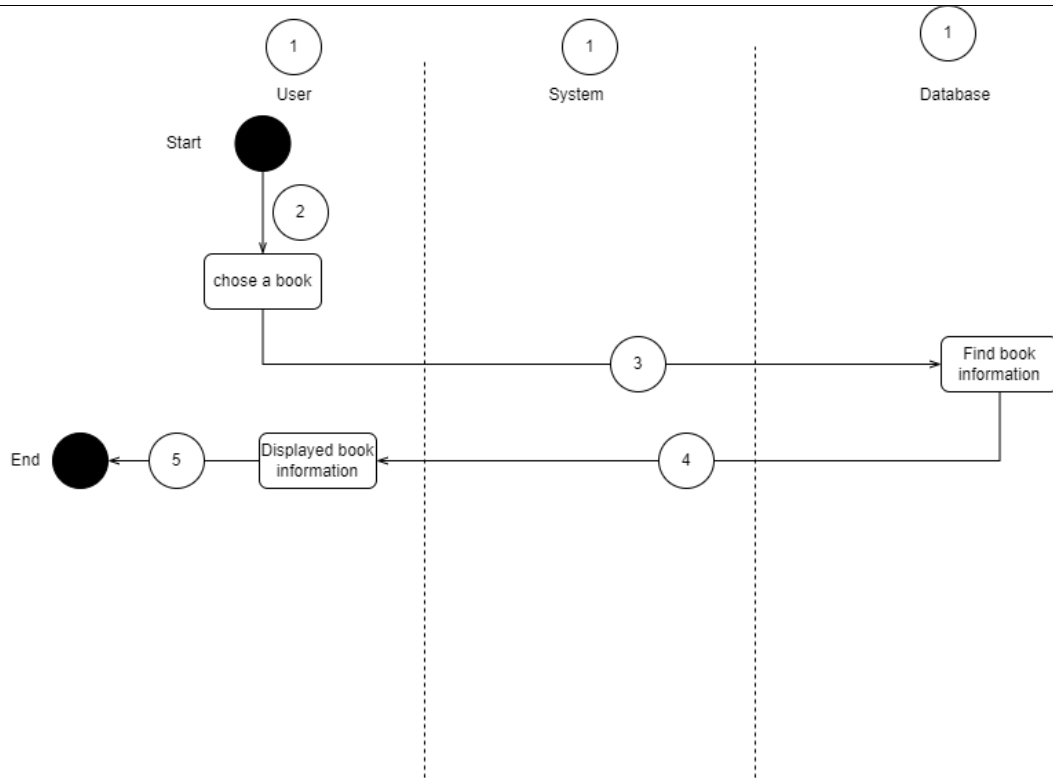


Figure 9. Activity of view book detail function

Table 5. UC-05 Register account

Use Case Name: Register account	ID: UC-05	Priority: Medium	Author: Nhan
Actor: Guest			
Description: this case describes how guest register an account			
Trigger: Guest want to register an account			
Type: External			
Preconditions:			
Normal Couse:			
1. click on the register button			
2. register form will be displayed			
3. fill the form and submit			
Alternative Flow:			
Post conditions:			
Exceptions:			
Ex1: duplicate Email			
1. The message about duplicate email error will be displayed			

When the guest want register an account they will click on the register button a register form will be displayed after fill this form an account will be create. This function is working like the below diagram.

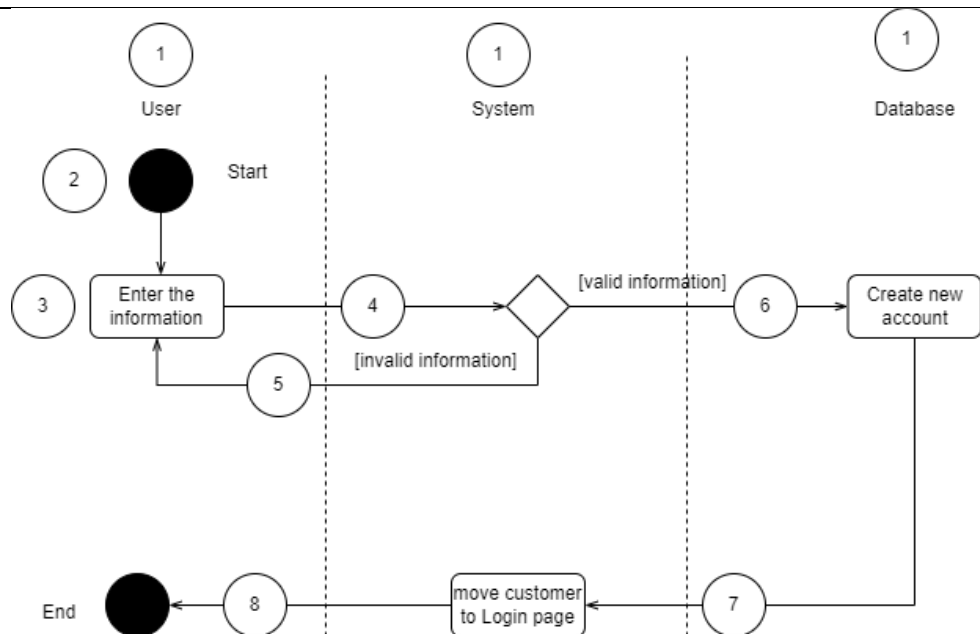


Figure 10. Activity of Register function

Table 6. UC-06 Login

Use Case Name: Login	ID: UC-06	Priority: Medium	Author: Khang
Actor: Guest			
Description: this case describes how guest login to the website			
Trigger: Guest want to login into the website			
Type: External			
Preconditions: they have an account			
Normal Couse:			
1. click on login button			
2. Enter the email			
3. Enter password			
4. submit			
Alternative Flow:			
Post conditions:			
Exceptions:			
Ex1 : the email or password wrong			
a message will be displayed on the screen let the guest know they type wrong email or password			

When the guest have an account and they want to login to the website they need fill email and password in the login page and they will be moved to the home page based their account role if they email or password wrong they have to input again. This function is working like the below diagram.

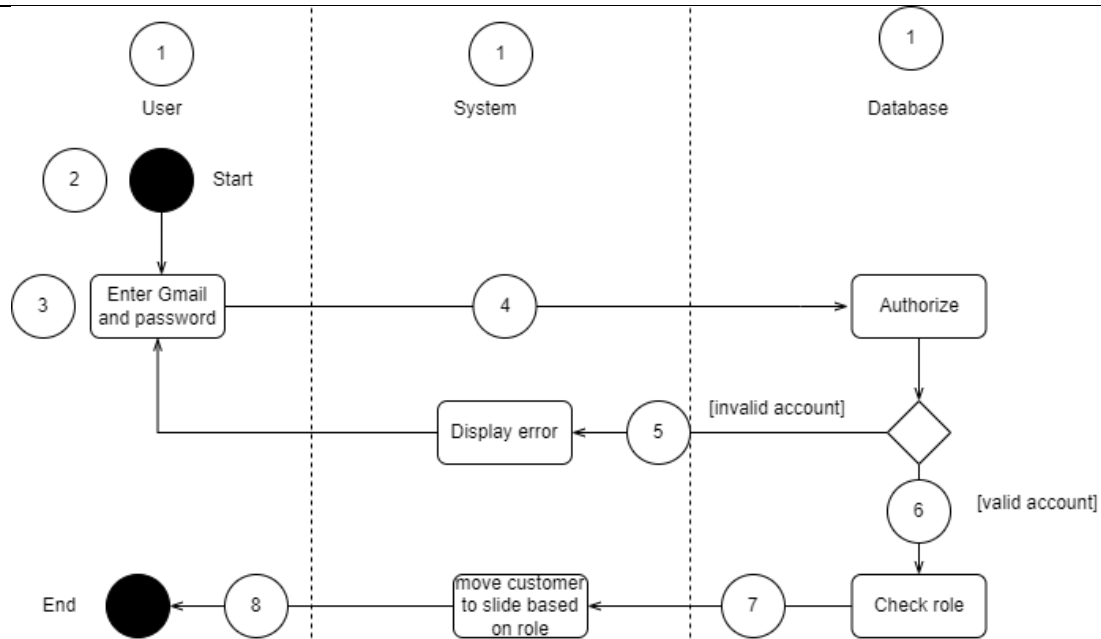


Figure 11. Activity of Login function

Table 7. UC-06A Logout

Use Case Name: Logout	ID: UC-06A	Priority: Medium	Author: Khang
Actor: Customer			
Description: this case describes how customer want to logout			
Trigger: Guest want to logout the website			
Type: External			
Preconditions: Must be login into the website			
Normal Couse:			
Click logout			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the customer want to logout the website they need click on the logout button. This function is working like the below diagram.

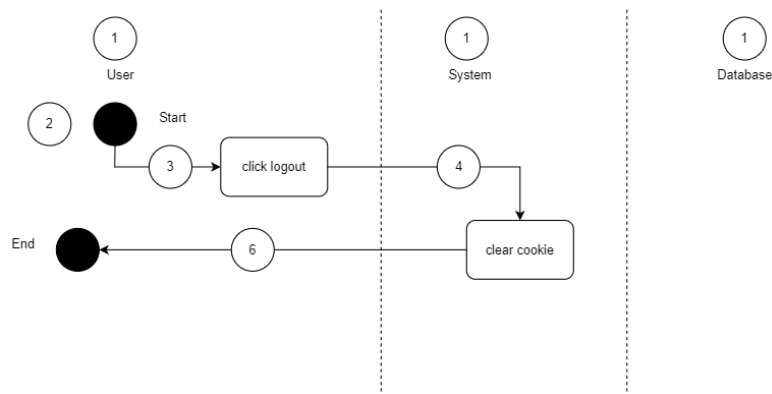
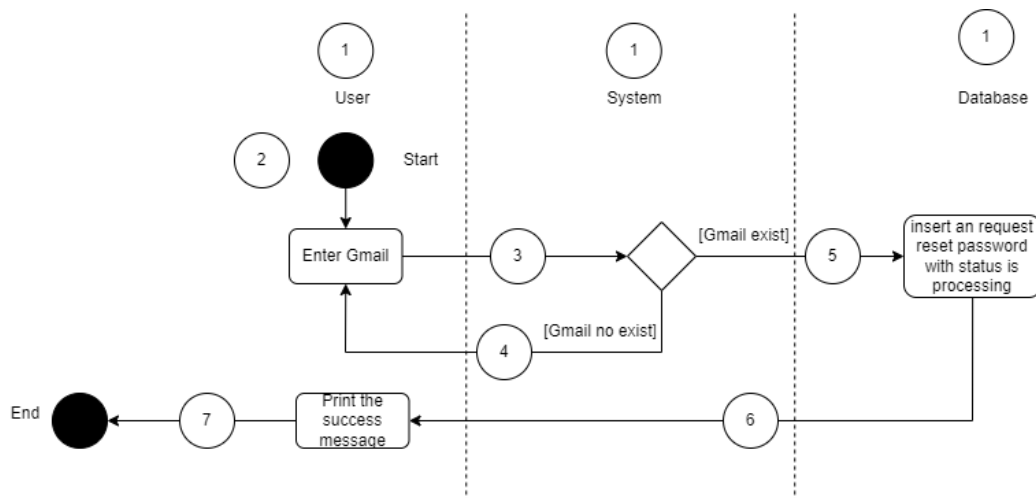


Figure 12. Activity Logout function

Table 8. UC-07 Request reset password

Use Case Name: Request reset password	ID: UC-07	Priority: High	Author: Nhan
Actor: Customer			
Description: this case describes how Customer request admin reset their password if they forgot it			
Trigger: Customer want to reset password when they forgot it			
Type: External			
Preconditions: they have an account before			
Normal Couse: 1. click on forget the password 2. Enter the email 3. message success will be displayed			
Alternative Flow:			
Post conditions:			
Exceptions: Ex1 : the email doesn't exist An message about this problem will be displayed			

When the user forget their password they can click on forget password in login page to make a request to admin and let them reset the password by enter the user email if the email that user type doesn't exist a message about this will be displayed. This function is working like the below diagram.

**Figure 13. Activity of request reset password function****Table 9. UC-08 View cart**

Use Case Name: View cart	ID: UC-08	Priority: Low	Author: Khang
Actor: Customer			
Description: this case describes how customer view their cart			
Trigger: Customer want to view their cart			
Type: External			
Preconditions: customer must login into website			
Normal Couse: 1. Click on cart 2. The result be displayed			
Alternative Flow:			

Post conditions:
Exceptions:

When the customer want to view their cart they can click on the cart icon and the cart view will be displayed. This function is working like the below diagram.

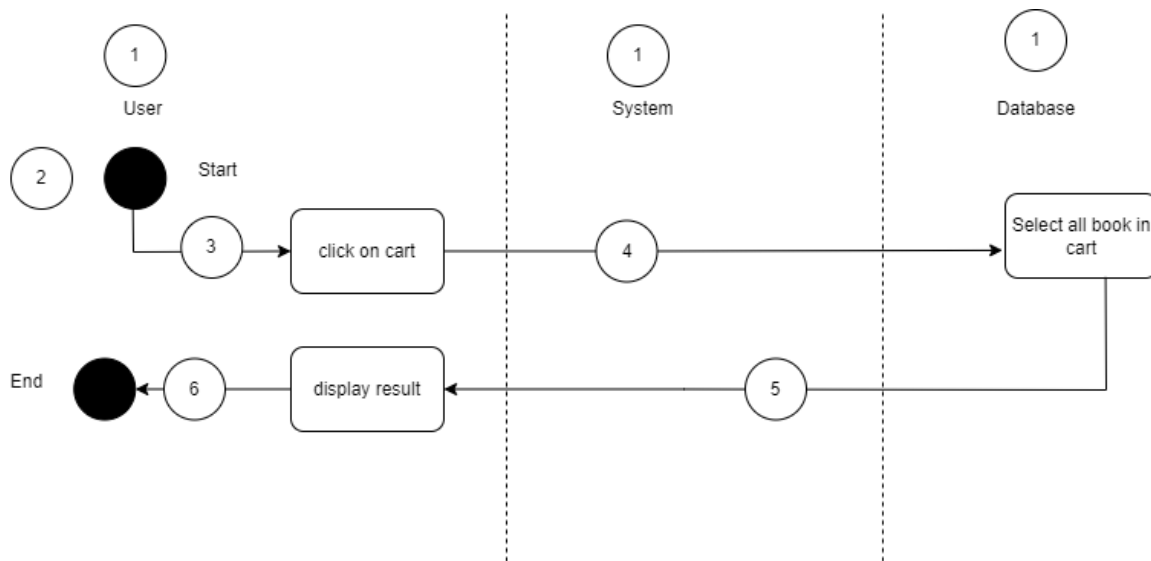


Figure 14. Activity of View cart function

Table 10. UC-09 Order

Use Case Name: Order	ID: UC-09	Priority: High	Author: Nhan
Actor: Customer			
Description: this case describes how customer order			
Trigger: Guest want to order book			
Type: External			
Preconditions: customer must be login into the website			
Normal Couse:			
1. click on payment button			
2. The message order success will be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			
Ex1: the quantity in stock of book lower than order quantity			
A message about this problem will be displayed			

When the customer want to order the book in the website they need click on the payment button in the cart page and the system will check the quantity in stock with the order quantity of each book be added in cart if the quantity in stock higher than quantity order this order will success in another case the message about the quantity in stock of book lower than order quantity will be displayed. This function is working like the below diagram.

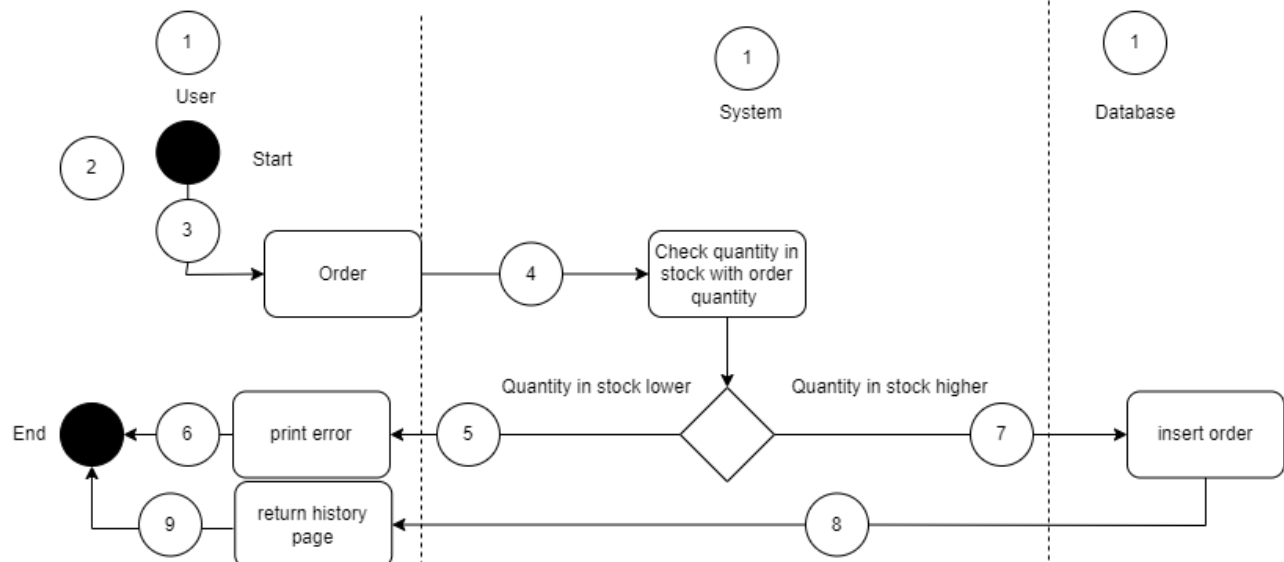


Figure 15. Activity of order function

Table 11. UC-10 Remove book out cart

Use Case Name: Remove book out cart	ID: UC-10	Priority: Low	Author: Khang
Actor: Customer			
Description: this case describes how Customer remove book out cart			
Trigger: Customer want to remove a book out cart			
Type: External			
Preconditions: customer must be login into the website Must be have least 1 book in cart			
Normal Couse: 1. view cart page 2. choose a book want to remove out cart			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the customer want to remove a book out their cart they need enter the cart page and choose the book want to remove. This function is working like the below diagram.

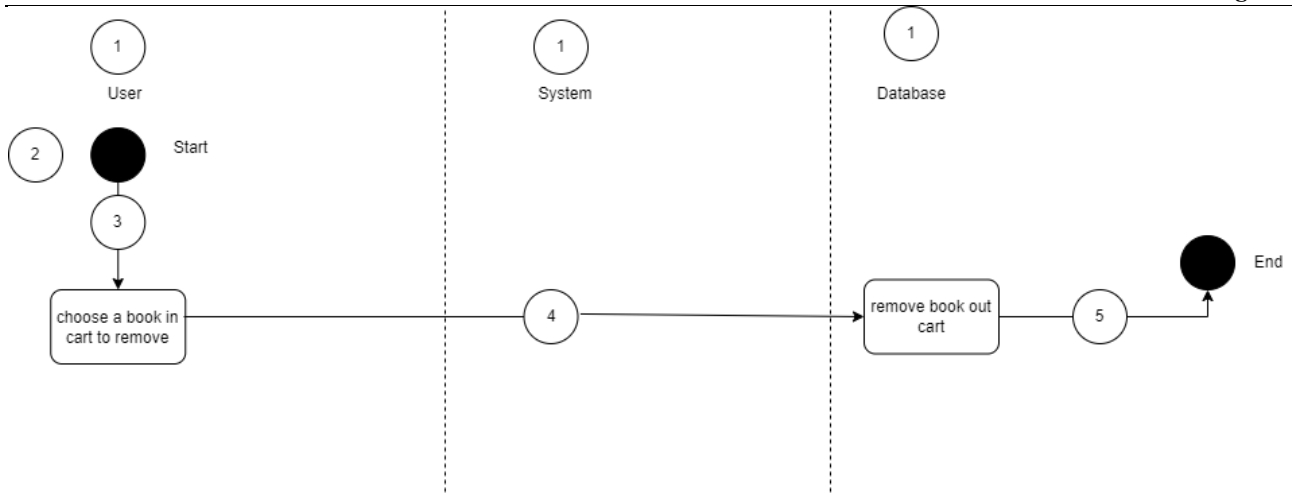


Figure 16. Activity of book out of cart function

Table 12. UC-11 View profile

Use Case Name: View Profile	ID: UC-011	Priority: Low	Author: Nhan
Actor: Customer			
Description: this case describes how customer view their profile			
Trigger: Customer want to view their profile			
Type: External			
Preconditions: must be login into the website			
Normal Couese:			
1. click on the profile icon			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the customer want to view their profile they need click on the profile icon and the customer information will display in profile page. This function is working like the below diagram.

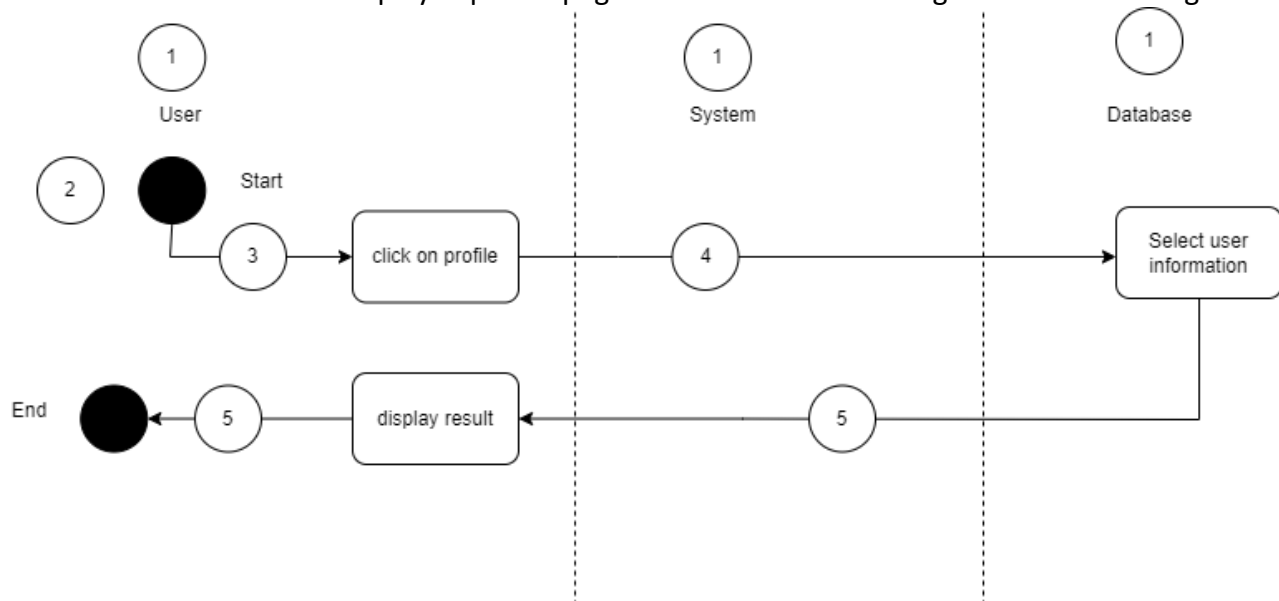
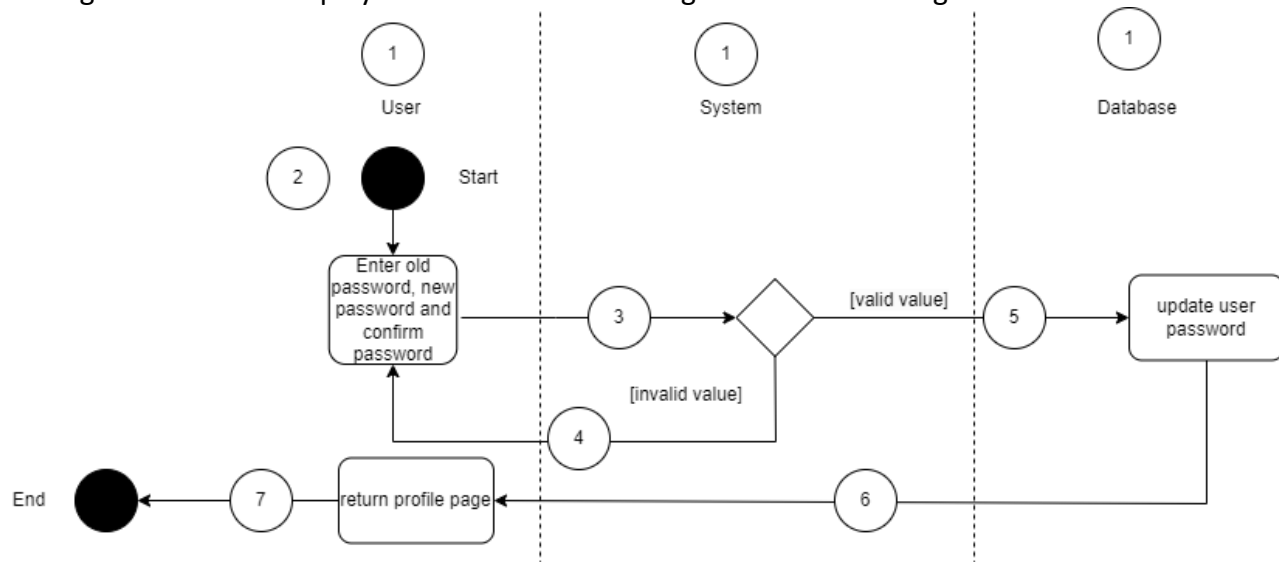


Figure 17. Activity of view profile function

Table 13. UC-012 Changes password

Use Case Name: Changes password	ID: UC-012	Priority: Medium	Author: Khang
Actor: Customer			
Description: this case describes how customer changes their password			
Trigger: Customer want to changes their password			
Type: External			
Preconditions: must be login into website			
Normal Couse: 1. Enter old password 2. Enter new password 3. Enter confirm password 4. submit			
Alternative Flow:			
Post conditions:			
Exceptions: Ex1: type wrong old password The message about this problem will be displayed Ex2: the new password and confirm password doesn't match The message about this problem will be displayed			

When customer wants to changes their password they need enter the old password, new password and confirm password if they are valid the password will be changes in another case the message error will be display. This function is working like the below diagram.

**Figure 18. Activity of changes password function****Table 14. UC-013 Changes information**

Use Case Name: Changes information	ID: UC-013	Priority: Low	Author: Nhan
Actor: Customer			
Description: this case describes how customer changes their information			
Trigger: Customer changes their information			
Type: External			
Preconditions: must be login into the website			
Normal Couse: 1. Enter the new information			

2. submit
Alternative Flow:
Post conditions:
Exceptions:

When customer wants to changes their information they just need enter new information and submit. This function is working like the below diagram.

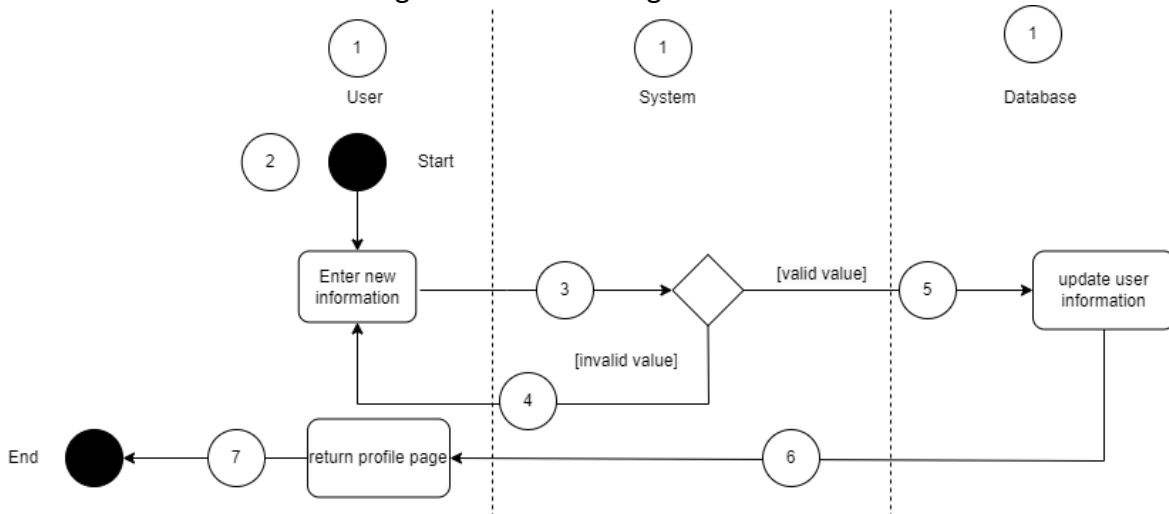


Figure 19. Activity of changes information function

Table 15. UC-014 View history

Use Case Name: View history	ID: UC-014	Priority: Low	Author: Khang
Actor: Customer			
Description: this case describes how Customer view history			
Trigger: Customer want to view their history			
Type: External			
Preconditions: must be login into the website			
Normal Couse:			
1. click on history			
2. The result be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the customer want to view their history they just need click on history in the cart and the information about this customer order will be display. This function is working like the below diagram.

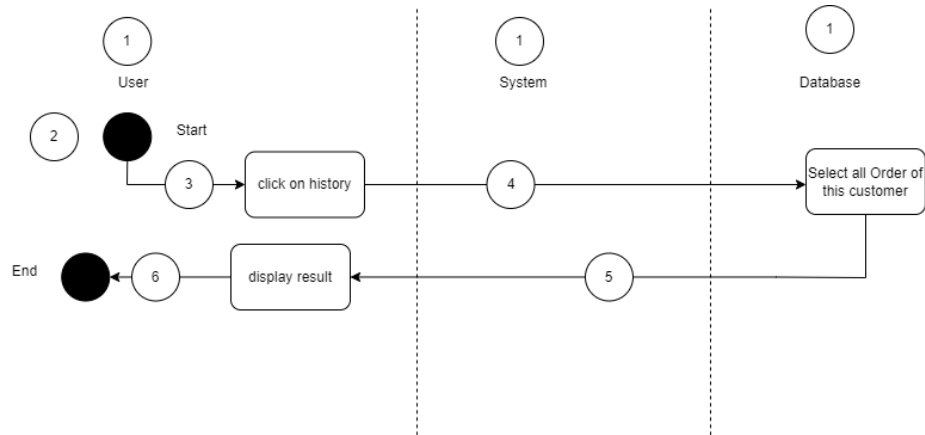


Figure 20. Activity of view history function

Table 16. UC-015 Statistical

Use Case Name: Statistical	ID: UC-015	Priority: Medium	Author: Nhan
Actor: Shop owner			
Description: this case describes how statistical in the shop			
Trigger: shop owner want to get store statistical			
Type: External			
Preconditions: must be login into the website with owner shop account			
Normal Couse: 1. click on statistical 2. choose information want to statistical 3. the result be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the owner shop want to get store statistical they just click on the statistical and choose information want to statistical and the result will be displayed. This function is working like the below diagram.

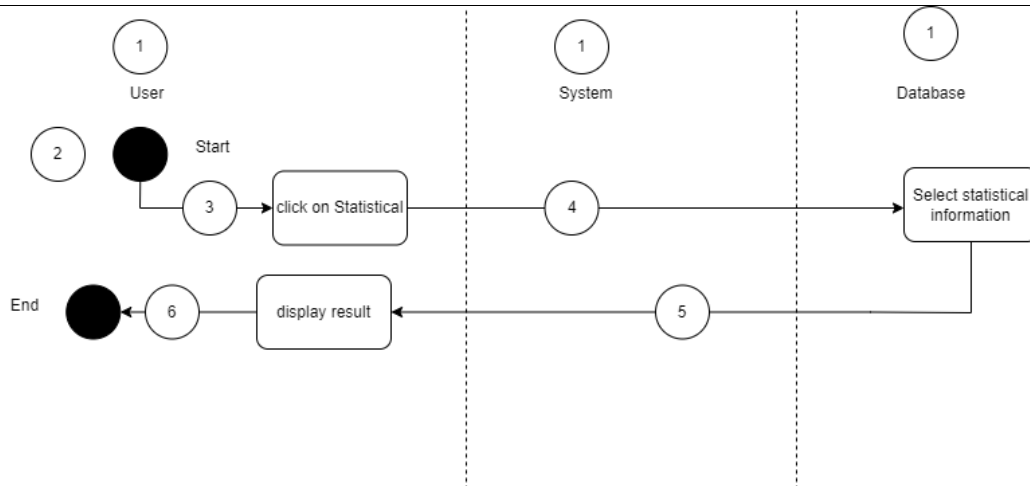


Figure 21. Activity of Statistical function

Table 17. UC-016 manage supplier

Use Case Name: View supplier	ID: UC-016	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes how owner shop view supplier			
Trigger: shop owner want to view supplier in the system			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. Click on supplier in owner shop page			
2. all supplier will be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the owner shop want to view all supplier in the system they need login by shop owner account and click on supplier all information about supplier will be displayed. This function is working like the below diagram.

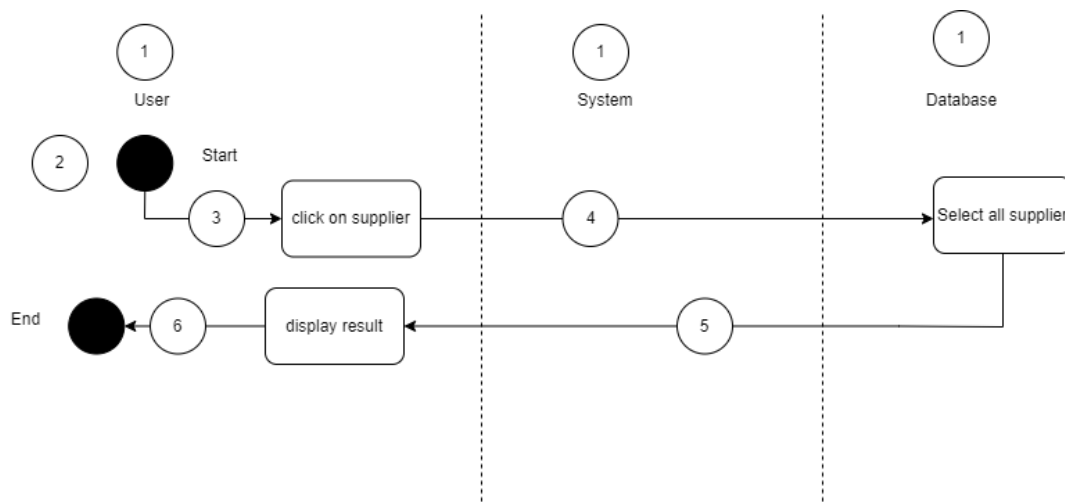
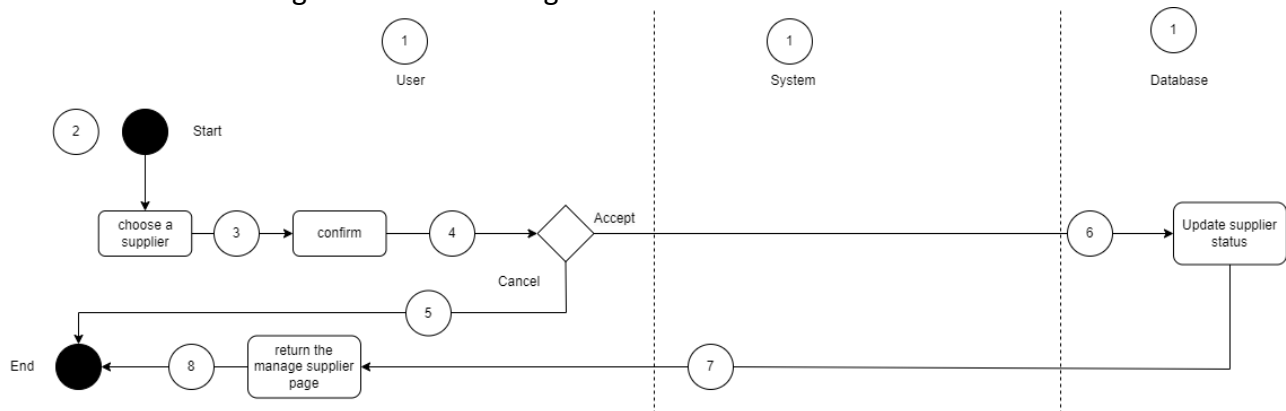


Figure 22. Activity of manage supplier function

Table 18. UC-017 Delete supplier

Use Case Name: Delete supplier	ID: UC-017	Priority: High	Author: Nhan
Actor: Shop owner			
Description: this case describes how the owner shop delete a supplier			
Trigger: customer want to delete a supplier			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse: 1. choose a supplier want to delete 2. choose yes in confirm 3. the supplier status be changed			
Alternative Flow: choose cancel in confirm 2.1 the delete process be cancelled			
Post conditions:			
Exceptions: Ex1: supplier Id doesn't exist The message about this problem will be displayed			

When the shop owner want to delete a supplier in the system they need access to the view supplier page and choose the supplier want to delete the program will change the status of supplier. This function is working like the below diagram.

**Figure 23. Activity of Delete supplier function****Table 19. UC-018 Edit supplier**

Use Case Name: Edit supplier	ID: UC-018	Priority: Medium	Author: Khang
Actor: Shop owner			
Description: this case describes how shop owner edit a supplier			
Trigger: shop owner want to edit a supplier			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse: 1. Choose the supplier want to edit 2. Enter the new information for this supplier 3. submit and return the view supplier page			
Alternative Flow:			

Post conditions:
Exceptions:

When the shop owner want to edit a supplier in the system they need access to the view supplier page and choose the supplier want to edit next enter the new information for this supplier. This function is working like the below diagram.

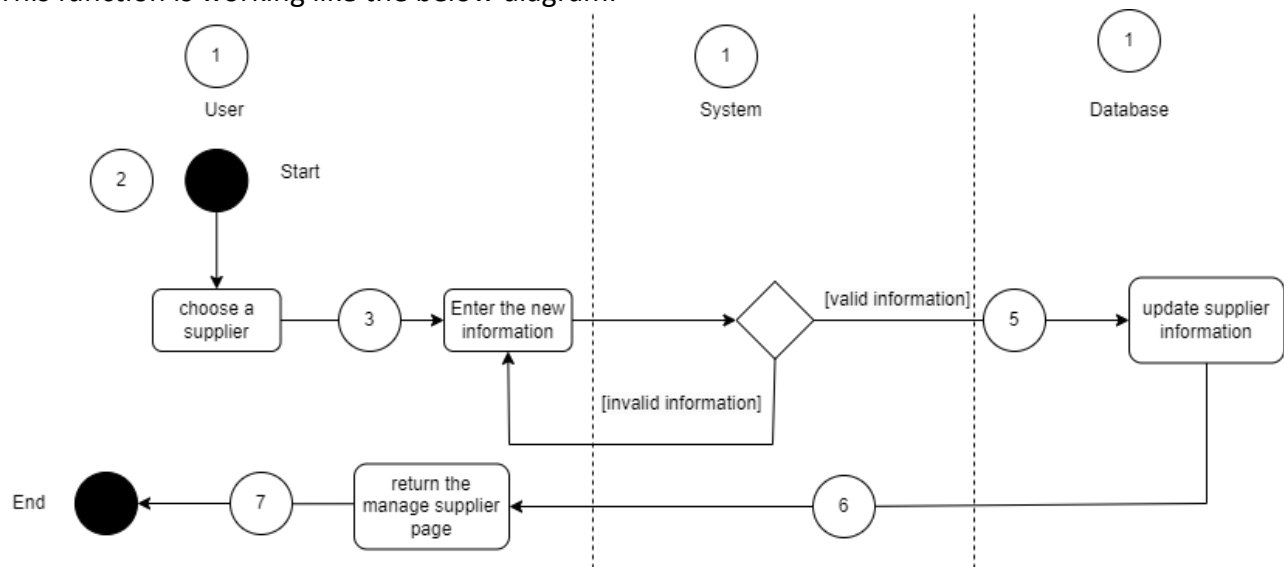


Figure 24. Activity of Edit supplier function

Table 20. UC-019 Add supplier

Use Case Name: Add supplier	ID: UC-019	Priority: Low	Author: Nhan
Actor: Shop owner			
Description: this case describes how shop owner add new supplier.			
Trigger: owner shop want to add a supplier			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. enter the new book's information			
2. submit			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the order shop add a new supplier into the system they need fill the create supplier form and submit then a line will be insert into the database. This function is working like the below diagram.

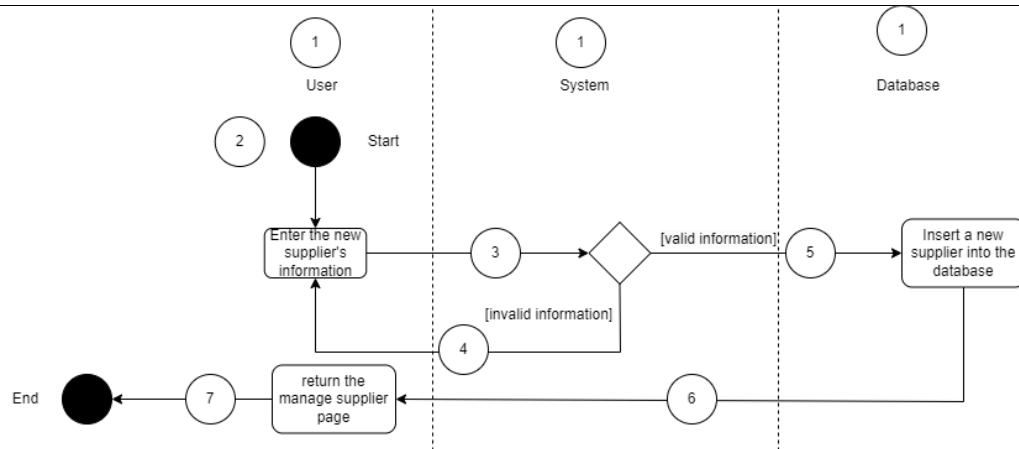


Figure 25. Activity of Add supplier function

Table 21. UC-20 Manage book

Use Case Name: Manage book	ID: UC-020	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes how Owner shop view book in the system			
Trigger: when the owner shop want to view all book in the system			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. click on book management			
2. access the book management page			
3. result will be display			
Alternative Flow:			
Post conditions:			
Exceptions:			

The manage book actually have the same ways to runs like manage supplier so I won't repeat that again. This function is working like the below diagram.

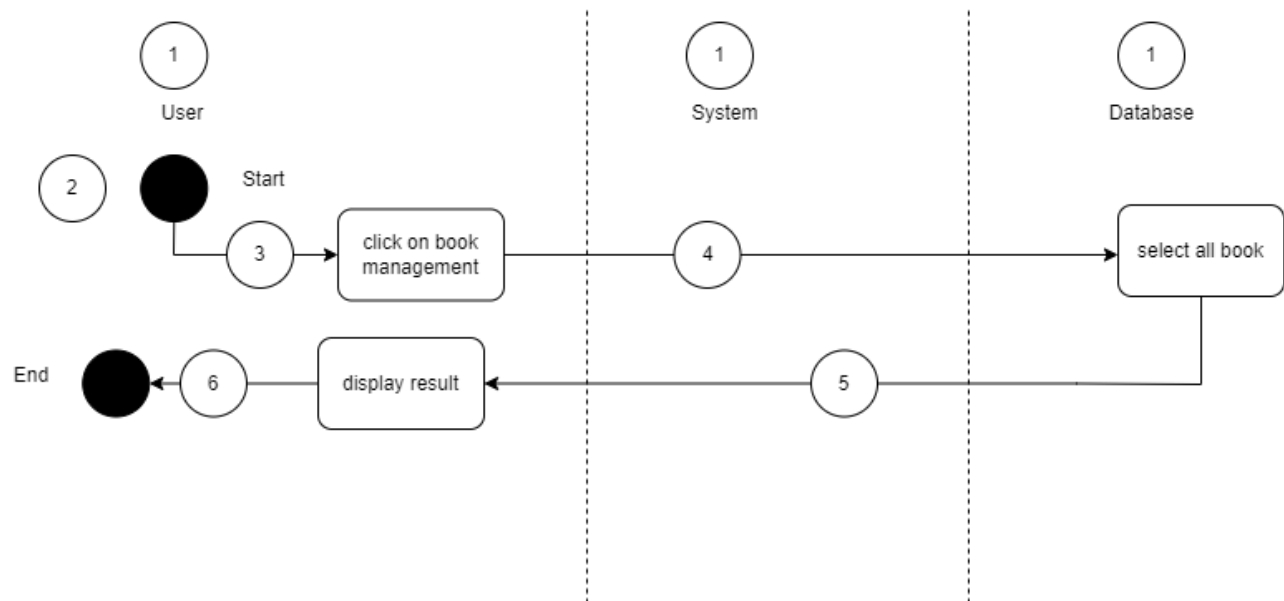


Figure 26. Activity of View Book function

Table 22. UC-021 Add book

Use Case Name: Add book	ID: UC-021	Priority: Low	Author: Nhan
Actor: Shop owner			
Description: this case describes how the shop owner add a book			
Trigger: shop owner want to add new book			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. Enter the new book's information			
2. Submit			
Alternative Flow:			
Post conditions:			
Exceptions:			

The add book actually have the same ways to runs like add supplier so I won't repeat that again. This function is working like the below diagram.

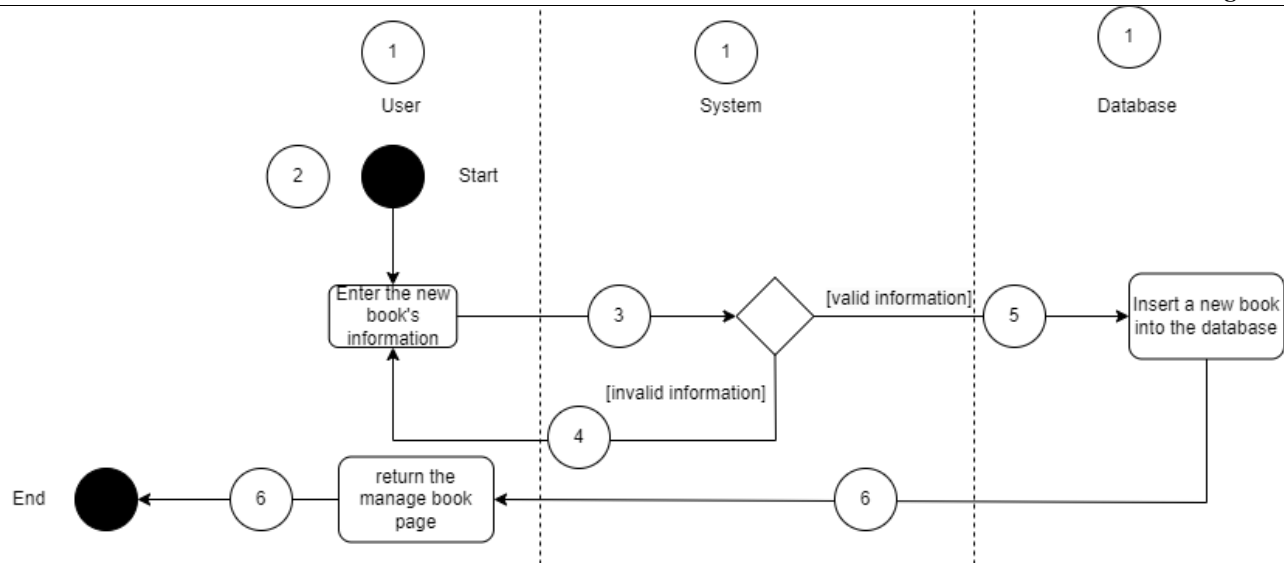


Figure 27. Activity of Add book function

Table 23. UC-022 Edit book

Use Case Name: Edit book	ID: UC-022	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes shop owner want to edit the book in the system			
Trigger: shop owner want to edit the book in the system			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. Choose the book want to edit			
2. Enter the new information for this book			
3. submit and return the view book page			
Alternative Flow:			
Post conditions:			
Exceptions:			
Ex1: book Id doesn't exist			
The message about this problem will be displayed			

The edit book actually have the same ways to runs like edit supplier so I won't repeat that again. This function is working like the below diagram.

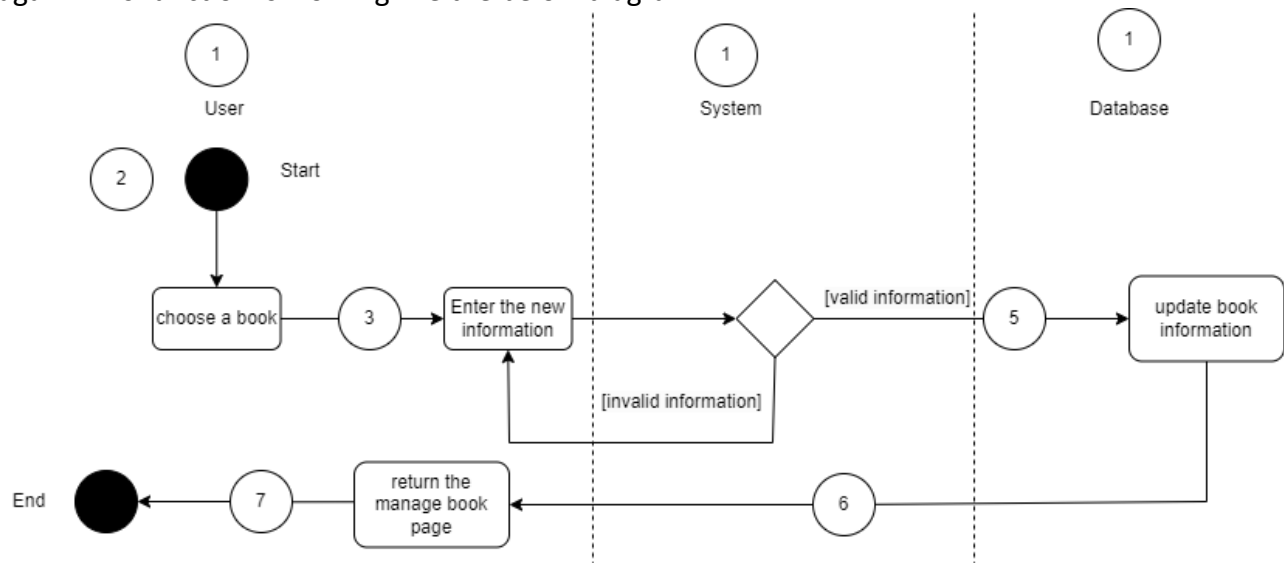


Figure 28. Activity of Edit book function

Table 24. UC-023 Delete book

Use Case Name: Delete book	ID: UC-023	Priority: Low	Author: Nhan
Actor: Shop owner			
Description: this case describes how shop owner delete a book			
Trigger: Shop owner want to delete a book			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. choose a book want to delete			
2. choose yes in confirm			
3. the book status be changed			
Alternative Flow: choose cancel in confirm			
2.1 the delete process be cancelled			
Post conditions:			
Exceptions:			
Ex1: book Id doesn't exist			
The message about this problem will be displayed			

The delete book actually have the same ways to runs like delete supplier so I won't repeat that again. This function is working like the below diagram.

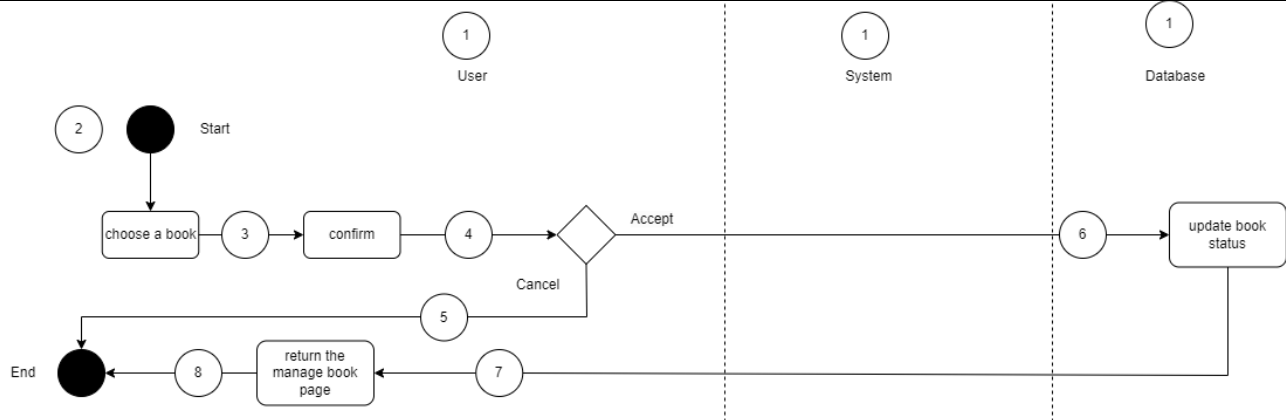


Figure 29. Activity of Delete book function

Table 25. UC-024 Manage request

Use Case Name: View request	ID: UC-024	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes how owner shop view the answer of all their request from admin			
Trigger: Shop owner want to view their request			
Type: External			
Preconditions: must login by owner shop account			
Normal Couese:			
1. click on request			
2. The result will be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the owner shop want to view status of their request they need click on the request to move to the request management page to view it. This function is working like the below diagram.

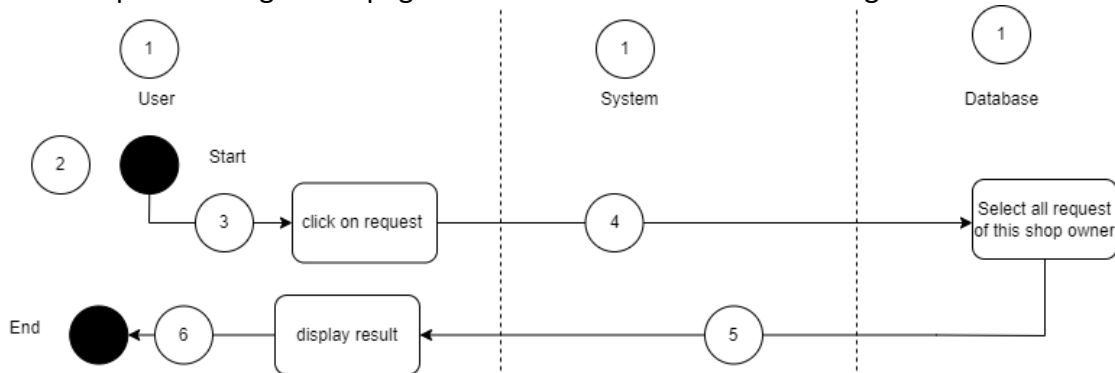
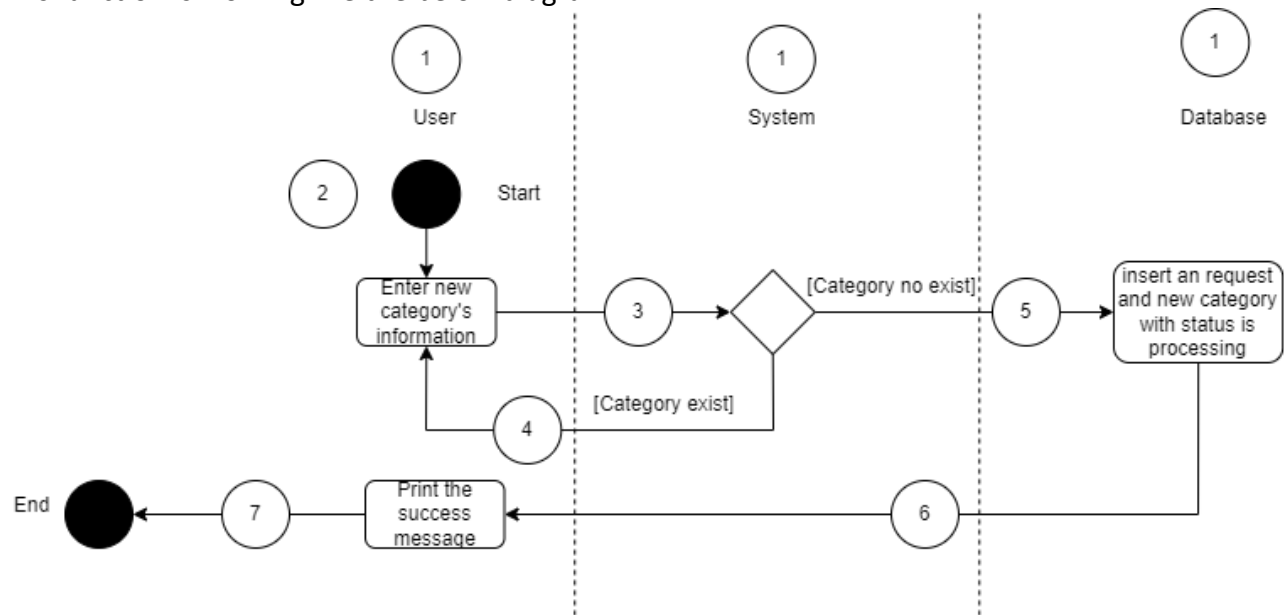


Figure 30. Activity of view request status function

Table 26. UC-025 Request add new category

Use Case Name: Request add new category	ID: UC-025	Priority: Low	Author: Nhan
Actor: Shop owner			
Description: this case describes how shop owner make a request from admin to add new category.			
Trigger: shop owner want to add a new category			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. Enter the new category's information			
2. insert an request and new category with status is processing			
3. print the success message			
Alternative Flow:			
Post conditions:			
Exceptions:			
Ex1: category already exist			
The message about this problem will be displayed			

When the shop owner want to add a new category they will enter the information about the new category and it will become a request for admin and they have to wait to admin accept this request. This function is working like the below diagram.

**Figure 31. Activity of Request add new category function****Table 27. UC-026 View all customer order**

Use Case Name: View all customer order	ID: UC-026	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes how shop owner view all customer order			
Trigger: shop owner want to view all customer order			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			

1. click on the order management
2. The result be displayed
Alternative Flow:
Post conditions:
Exceptions:

When the owner shop want to view all customer order in the system they need login by shop owner account and click on order management all information about customer order will be displayed. This function is working like the below diagram.

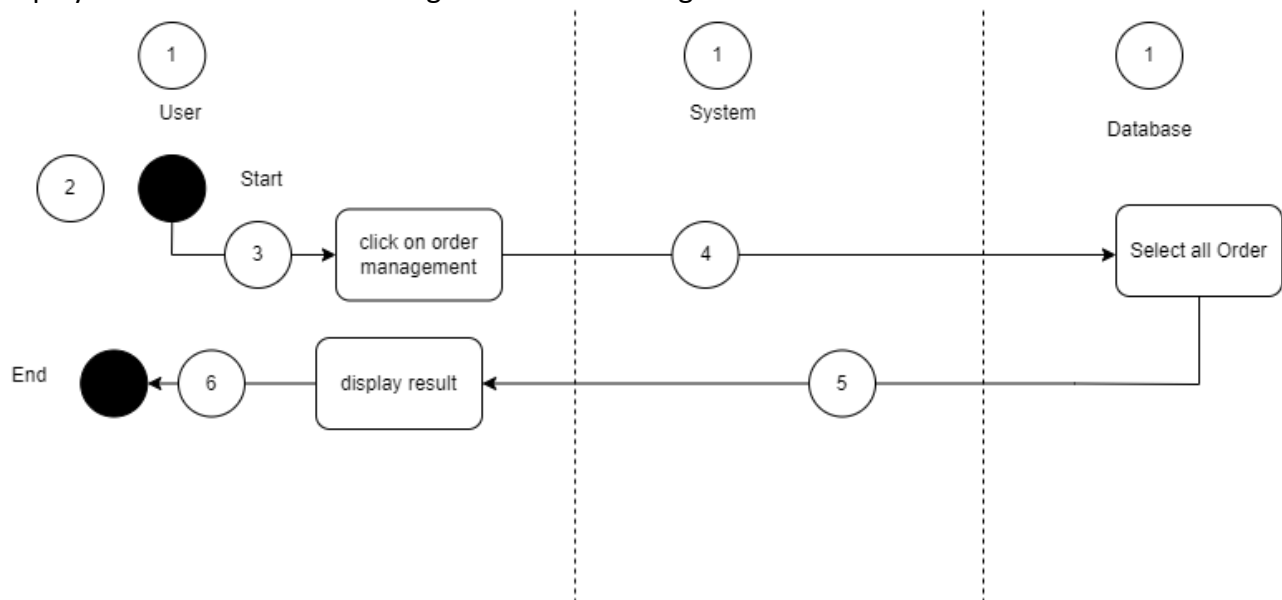


Figure 32. Activity of View all customer order function

Table 28. UC-026A View order detail

Use Case Name: View order detail	ID: UC-026A	Priority: Low	Author: Nhan
Actor: Shop owner			
Description: this case describes how shop owner view order detail of an order			
Trigger: shop owner want view order detail of an order			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. choose an order			
2. The order detail of this order will be display be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

When the shop owner want to view the detail of an order they need choose an order and the information of order detail will be displayed. In addition, the customer also have the case view order detail (UC-014A) but this case have no the differences with the UC-026A so I choose talk the UC-026A instead of UC-014A. This function is working like the below diagram.

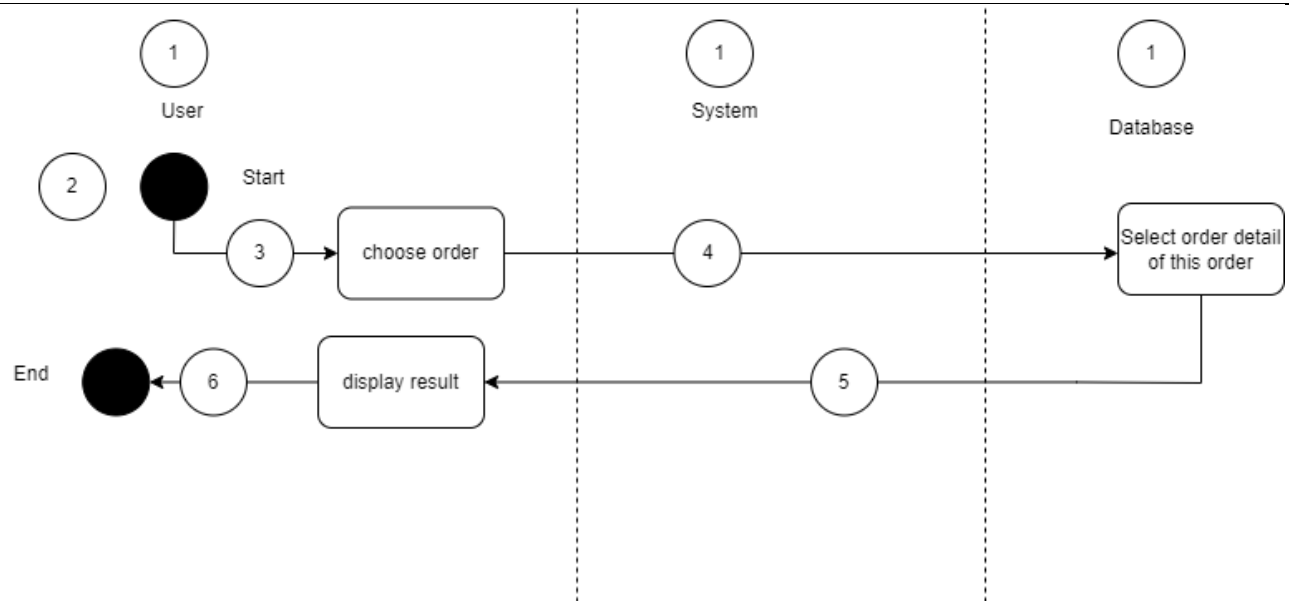


Figure 33. Activity of View all customer order detail function

Table 29. UC-027 Manage category

Use Case Name: Manage category	ID: UC-027	Priority: Low	
Actor: Shop owner			
Description: this case describes how shop owner view all category in system			
Trigger: shop owner want view all category in system			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. click on the category management			
2. The result be displayed			
Alternative Flow:			
Post conditions:			
Exceptions:			

The manage category actually have the same ways to runs like manage supplier so I won't repeat that again. This function is working like the below diagram.

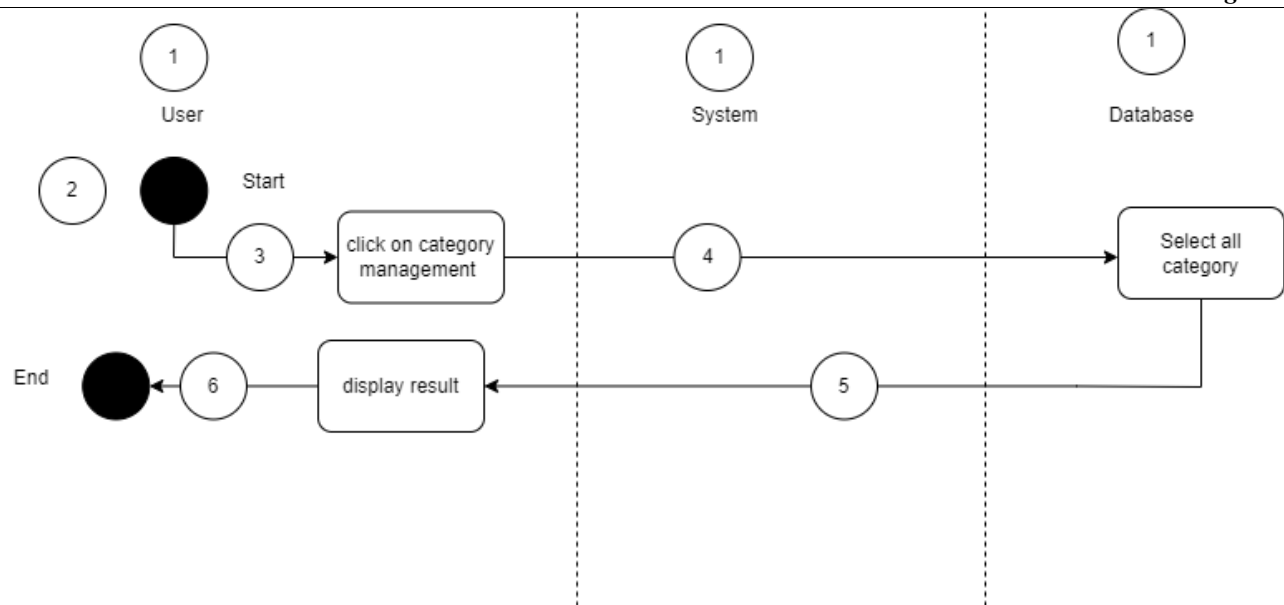


Figure 34. Activity of View all category function

Table 30. UC-028 Delete category

Use Case Name: Delete category	ID: UC-028	Priority: Medium	Author: Khang
Actor: Shop owner			
Description: this case describes how shop owner delete a category			
Trigger: owner shop want to delete a category			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse:			
1. choose a category want to delete			
2. choose yes in confirm			
3. the category status be changed			
Alternative Flow: choose cancel in confirm			
2.1 the delete process be cancelled			
Post conditions:			
Exceptions: Ex1: category Id doesn't exist			
The message about this problem will be displayed			

The delete category actually have the same ways to runs like delete supplier so I won't repeat that again. This function is working like the below diagram.

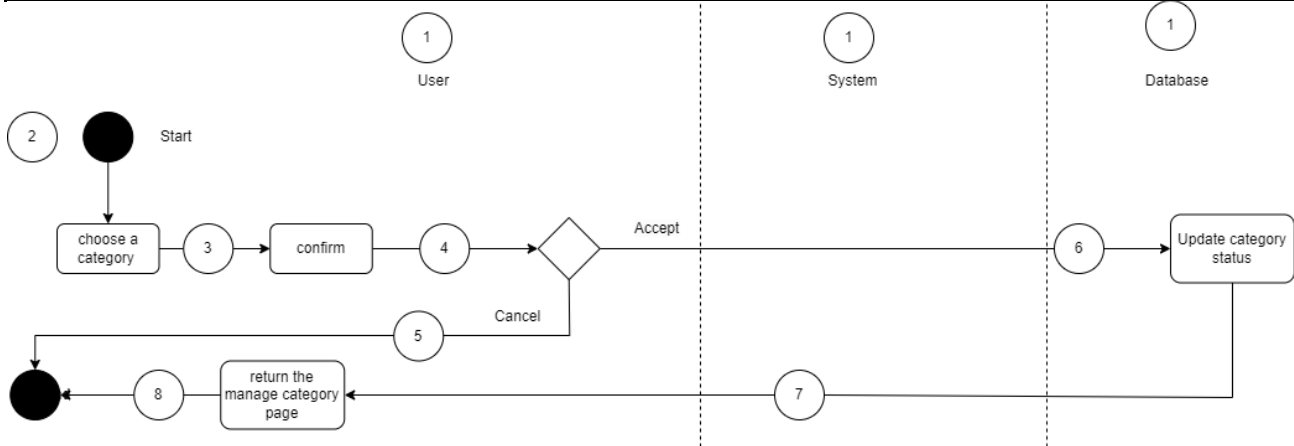


Figure 35. Activity of Delete category function

Table 31. UC-029 Edit category

Use Case Name: Edit category	ID: UC-029	Priority: Low	Author: Khang
Actor: Shop owner			
Description: this case describes how shop owner edit a category			
Trigger: shop owner want to edit a category			
Type: External			
Preconditions: must login by owner shop account			
Normal Couese:			
1. Choose the category want to edit			
2. Enter the new information for this category			
3. submit and return the view category page			
Alternative Flow:			
Post conditions:			
Exceptions: Ex1: category Id doesn't exist			
The message about this problem will be displayed			

The edit category actually have the same ways to runs like edit book so I won't repeat that again. This function is working like the below diagram.

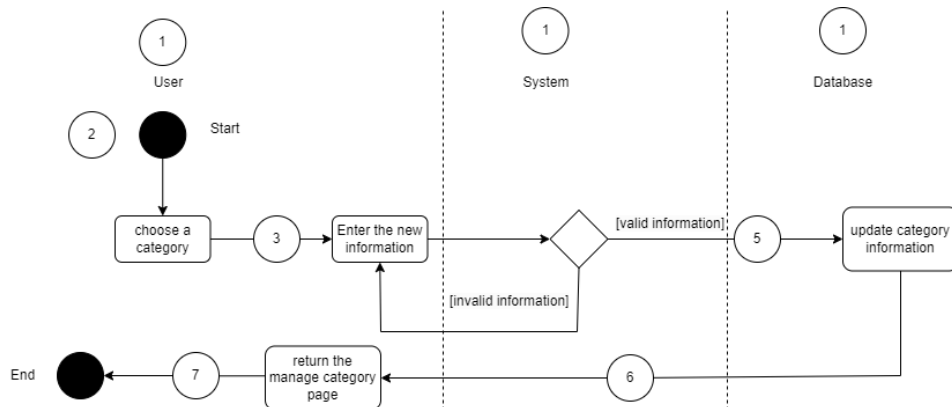
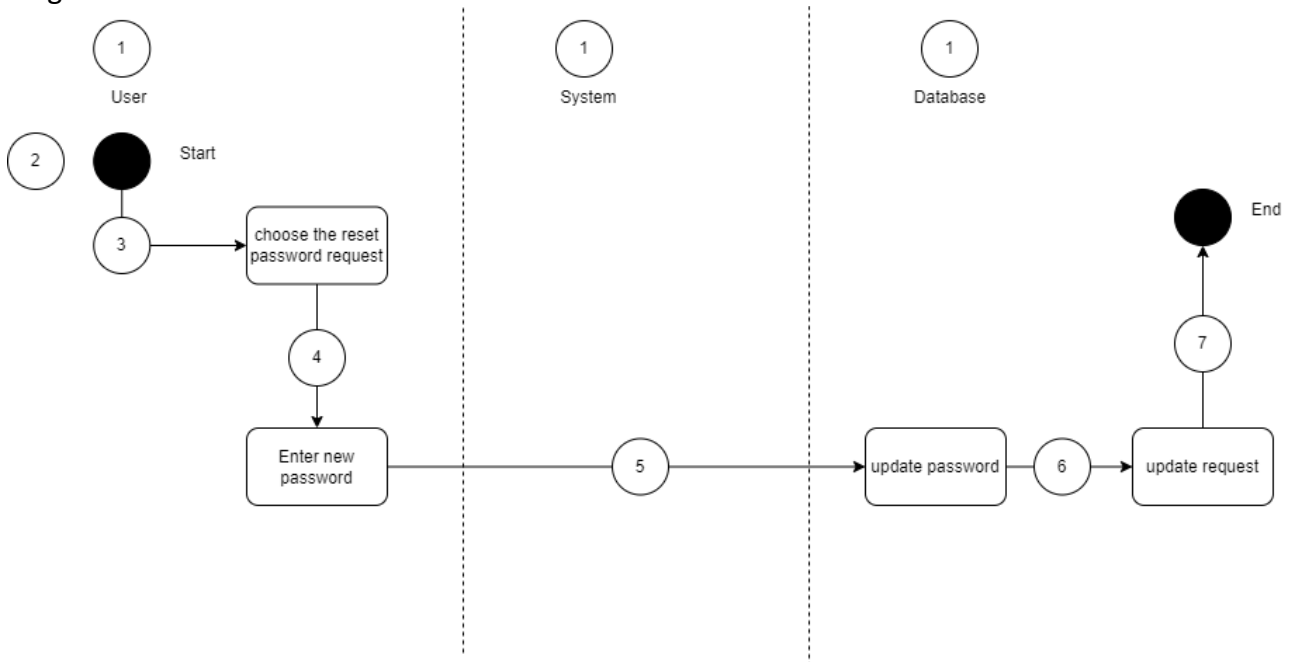


Figure 36. Activity of edit category function

Table 32. UC-030 reset password for users

Use Case Name: reset password for users	ID: UC-030	Priority: Low	Author: Khang
Actor: Admin			
Description: this case describes how admin reset password for users			
Trigger: Admin want to reset password for user who requested			
Type: External			
Preconditions: must login by admin account			
Normal Couse: 1. Enter the new password 2. update password 3. update request			
Alternative Flow:			
Post conditions:			
Exceptions:			

Anytime when a reset password be requested the admin can chose this request and enter the new password from their without their old password. This function is working like the below diagram.

**Figure 37. Activity of reset password for users function****Table 33. UC-031 View all Customer account**

Use Case Name: View all customer account	ID: UC-031	Priority: Low
Actor: Admin		
Description: this case describes how admin view all customer account in the system		
Trigger: Admin want to view all customer account in the system		
Type: External		
Preconditions: must login by admin account		
Normal Couse: 1. Click on user management. 2. the result will be display		

Alternative Flow:
Post conditions:
Exceptions:

When the admin want to view all customer account in this system. They need click on user management and all information of customer will be display. This function is working like the below diagram.

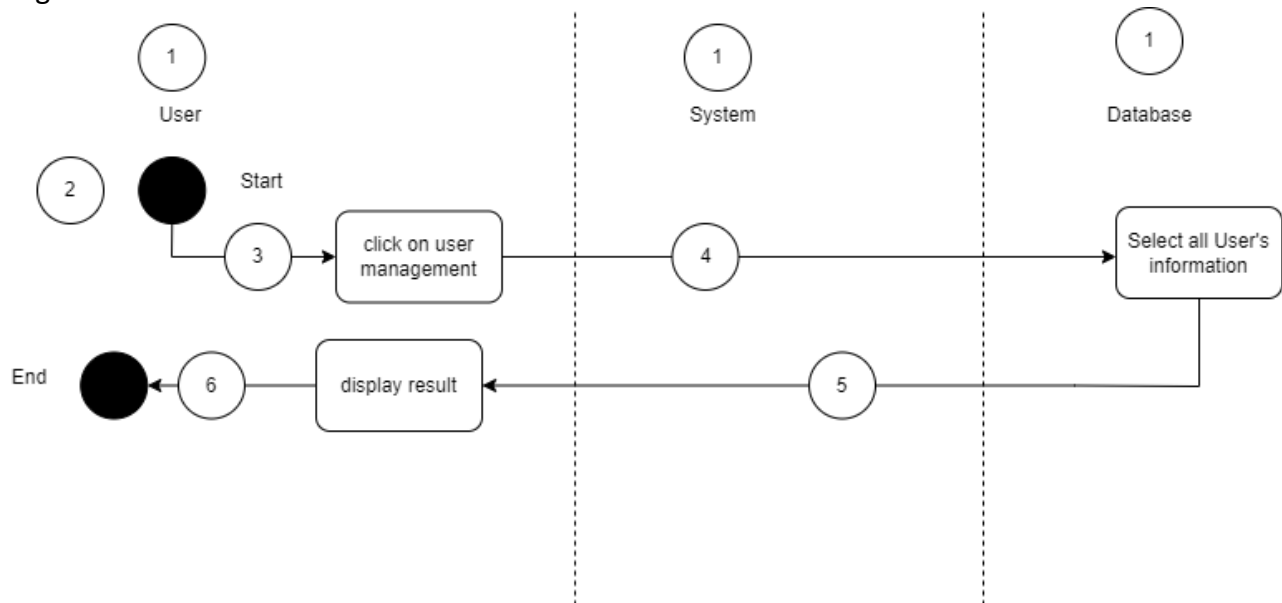


Figure 38. Activity of view all users function

Table 34. UC-032 New category approval

Use Case Name: New category approval	ID: UC-032	Priority: Low	Author: Khang
Actor: Admin			
Description: this case describes how admin approve new category			
Trigger: Admin want to approve new category			
Type: External			
Preconditions: must login by owner shop account			
Normal Couse: 1. choose a add new category request 2. accept 3. add new category 4. update request			
Alternative Flow: refuse 2.1 refuse 3.1 update request			
Post conditions:			
Exceptions: Ex1: category already exist The message about this problem will be displayed			

When admin want to approve new category admin have two option one is accept the new category of request then a new category will be update the category status. Another is refuse then this category be changes the status to let the shop owner that their request be refused. This function is working like the below diagram.

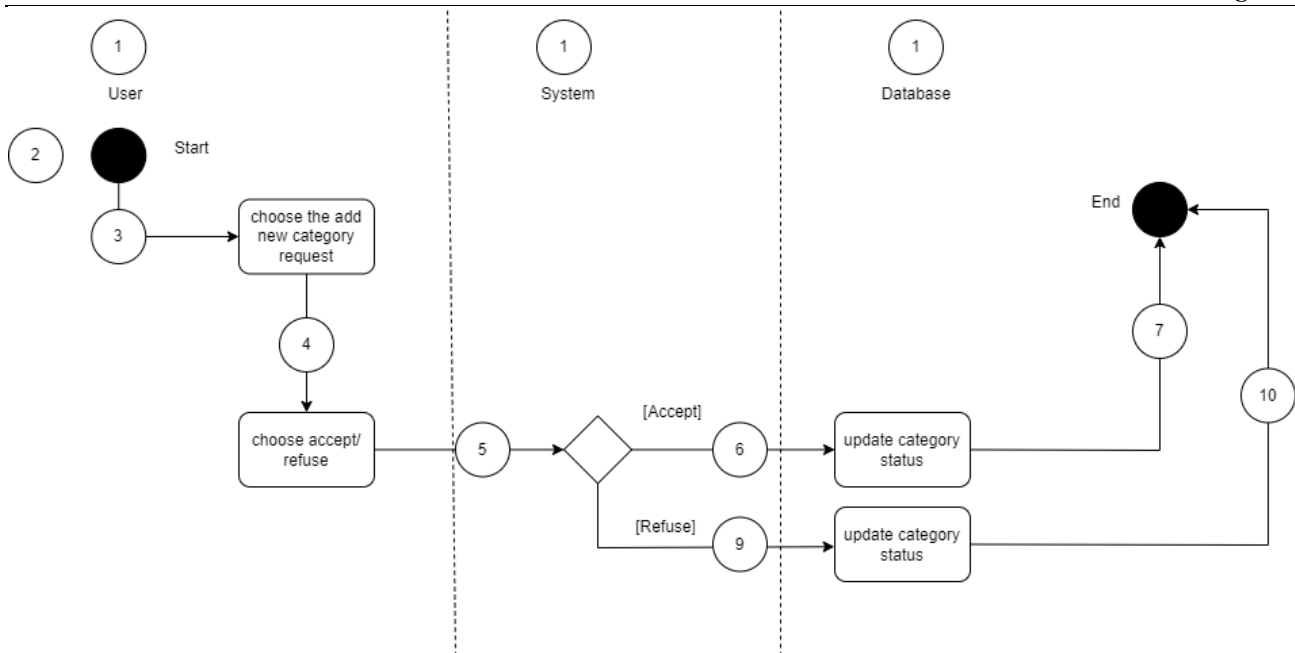


Figure 39. Activity of new category approval function

Table 35. UC-033 View all owner shop account

Use Case Name: View all owner shop account	ID: UC-033	Priority: Low	Author: Khang
Actor: Admin			
Description: this case describes how admin view all owner shop account in the system			
Trigger: Admin want to view all owner shop account in the system			
Type: External			
Preconditions: must login by admin account			
Normal Couse:			
1. Click on owner shop management.			
2. the result will be display			
Alternative Flow:			
Post conditions:			
Exceptions:			

The view all owner shop account actually have the same ways to runs like View all customer account so I won't repeat that again. This function is working like the below diagram.

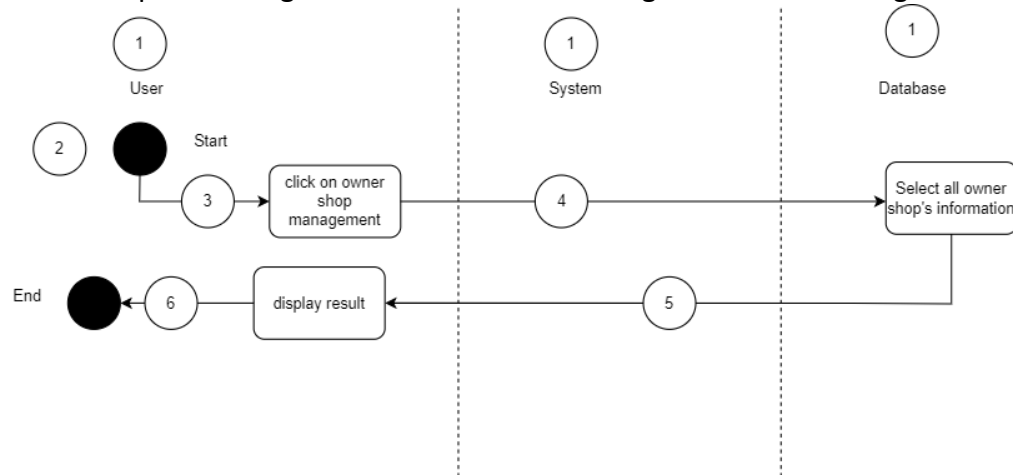


Figure 40. Activity of View all owner shop account function

3.3 Wireflow (P1)

Page mockup of customer:

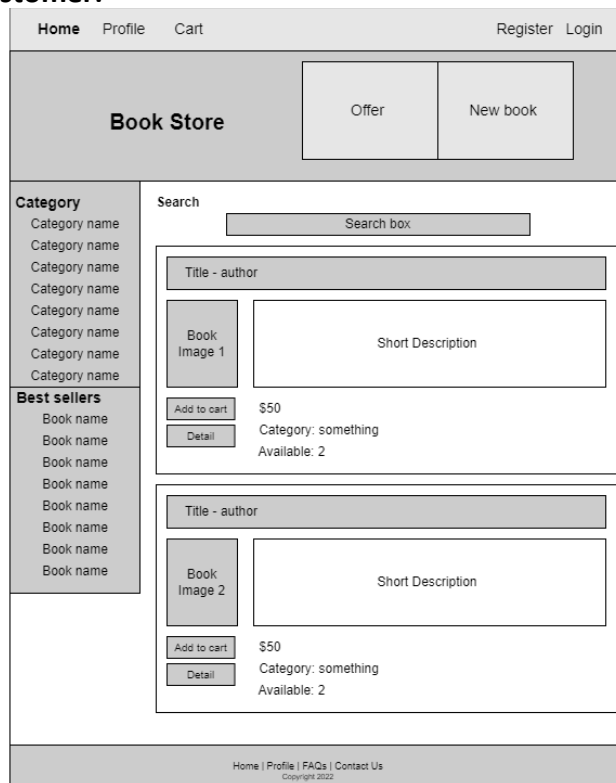


Figure 41. Homepage mockup

The home page of website of customer when they access to the website in this page they can view book of website they can move to the other page by click on profile cart detail...

Figure 42. Book detail mockup

The detail page will display all information of book they the customer was clicked.

Figure 43. Register page mockup

The register page allow user create a new account by fill all information that this form need and submit.

Email

Password

Log in now

reset password

Create account

Figure 44. Login page mockup

In the login page user can login into the website like a customer, admin or super admin this based on the user account.

Home Profile Cart Register Login						
History Payment						
#	Image	Name	Price	Quantity	Total price	Action
1	Book Image 1	name 1	\$2	- 1 +	\$2	remove
2	Book Image 2	name 2	\$2	- 1 +	\$2	remove
3	Book Image 3	name 3	\$2	- 1 +	\$2	remove
4	Book Image 4	name 4	\$2	- 1 +	\$2	remove
Home Profile FAQs Contact Us Copyright 2022						

Figure 45. Cart page Mockup

The cart use to display all book that the customer was selected in this page the customer can increase or decrease the quantity of book that they will buy they can click on payment to order all the book in their cart. In this page customer also view their history.



Figure 46. Profile page mockup

In the profile page use to display all information about the account of customer. Customer can changes their information and changes their password.

Page mockup of shop owner:

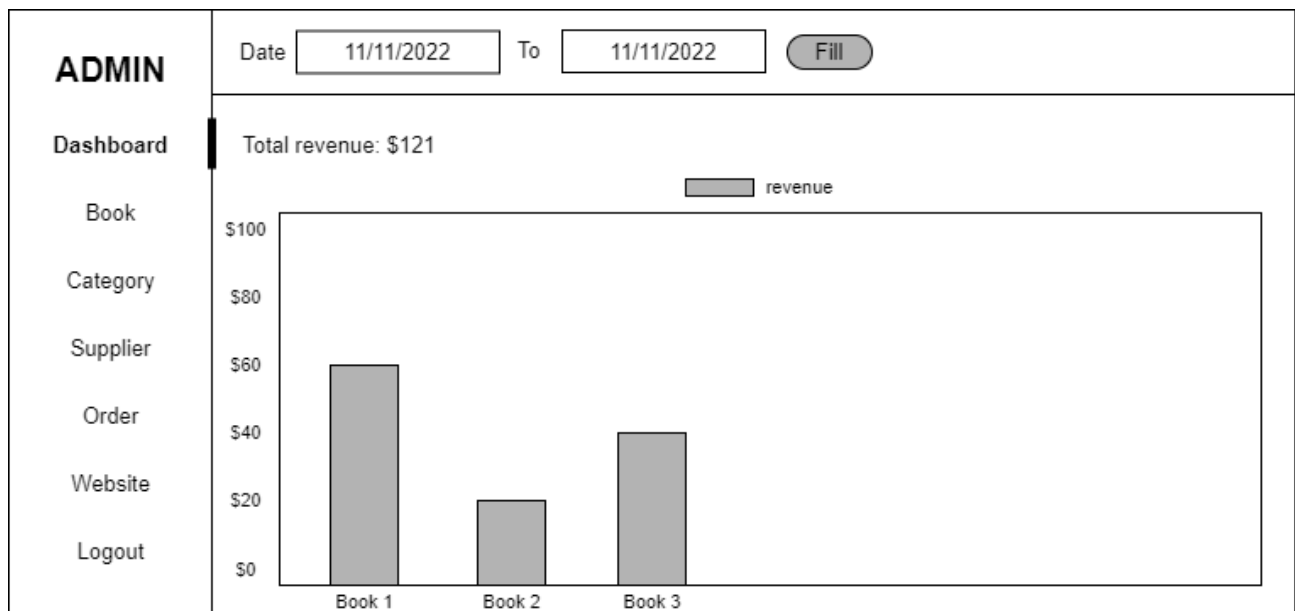


Figure 47. owner shop page mockup

In the owner shop page the owner shop can statistical the revenue of the store in a range time.

ADMIN	Dashboard	<input type="text"/> <input type="button" value="Search"/> <input type="button" value="New product"/>	
	Book	<div> <div>Book image 1</div> <div> Title: something Category: something Supplier: something Inventory: 1 </div> <div> Short description <input type="button" value="Update"/> <input type="button" value="Delete"/> </div> </div>	
	Category		
	Supplier		
Order	<div> <div>Book image 2</div> <div> Title: something Category: something Supplier: something Inventory: 1 </div> <div> Short description <input type="button" value="Update"/> <input type="button" value="Delete"/> </div> </div>		
Website			
Logout			

Figure 48. Book management page mockup

In the book management page the shop owner can add, edit or delete book in the website.

ADMIN		<input type="button" value="New category"/>
	Dashboard	
	Book	
	Category	
	Supplier	
	Order	
	Website	
	Logout	

#	Name	Action
1	category name 1	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	category name 2	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	category name 3	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
4	category name 4	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
5	category name 5	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
6	category name 6	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
7	category name 7	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Figure 49. Category management page mockup

In the category management page the shop owner can edit or delete category in the website if the owner shop want to add new category the owner have to make request for the admin to add a new category in the website.

ADMIN Dashboard Book Category Supplier Order Website Logout							
	#	Email	Phone	Address	Order date	Delivery date	Detail
	1	something@gmail.com	0123456789	Somewhere	11/11/2022	11/11/2022	View
	2	something@gmail.com	0123456789	Somewhere	11/11/2022	11/11/2022	View
	3	something@gmail.com	0123456789	Somewhere	11/11/2022	11/11/2022	View
	4	something@gmail.com	0123456789	Somewhere	11/11/2022	11/11/2022	View
	5	something@gmail.com	0123456789	Somewhere	11/11/2022	11/11/2022	View
	6	something@gmail.com	0123456789	Somewhere	Somewhere	Somewhere	View
	7	something@gmail.com	0123456789	Somewhere	Somewhere	Somewhere	View

Figure 50. Order management page mockup

In the order management page the shop owner can view all order of the customer in the website.

ADMIN Dashboard Book Category Supplier Order Website Logout	New Supplier			
	#	Name	Address	Action
	1	Supplier name 1	Somewhere	Edit Delete
	2	Supplier name 2	Somewhere	Edit Delete
	3	Supplier name 3	Somewhere	Edit Delete
	4	Supplier name 4	Somewhere	Edit Delete
	5	Supplier name 5	Somewhere	Edit Delete
	6	Supplier name 6	Somewhere	Edit Delete
	7	Supplier name 7	Somewhere	Edit Delete

Figure 51. Supplier management page mockup

In the customer management page the shop owner can add, edit or delete supplier in the website.

ADMIN Category Customer Owner Website Logout					
	#	Email	Phone	Address	Action
	1	something@gmail.com	0123456789	somewhere	reset password
	2	something@gmail.com	0123456789	somewhere	reset password
	3	something@gmail.com	0123456789	somewhere	reset password
	4	something@gmail.com	0123456789	somewhere	reset password
	5	something@gmail.com	0123456789	somewhere	reset password
	6	something@gmail.com	0123456789	somewhere	reset password
	7	something@gmail.com	0123456789	somewhere	reset password

Figure 52. View all customer page mockup

In the view all customer page admin can view all customer account in the website and the admin can reset the customer account.

ADMIN					
Category	#	Email	Phone	Address	Action
Customer Owner Website Logout	1	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	2	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	3	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	4	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	5	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	6	something@gmail.com	0123456789	somewhere	<button>reset password</button>
	7	something@gmail.com	0123456789	somewhere	<button>reset password</button>

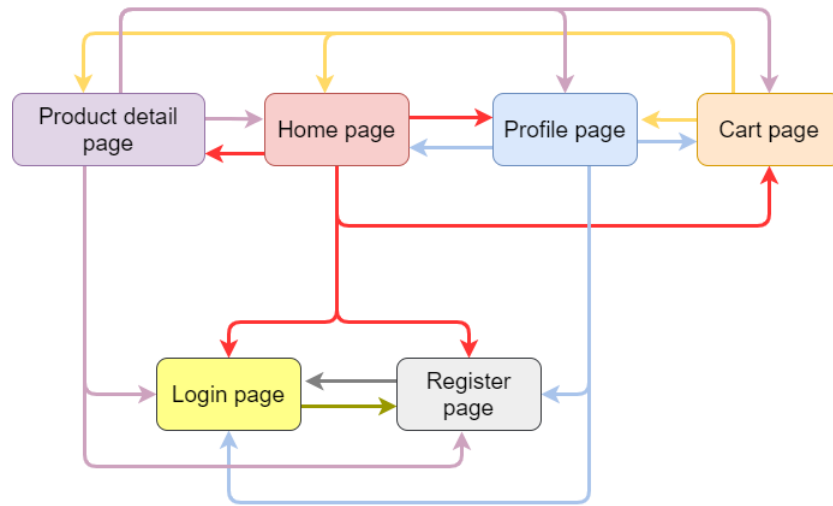
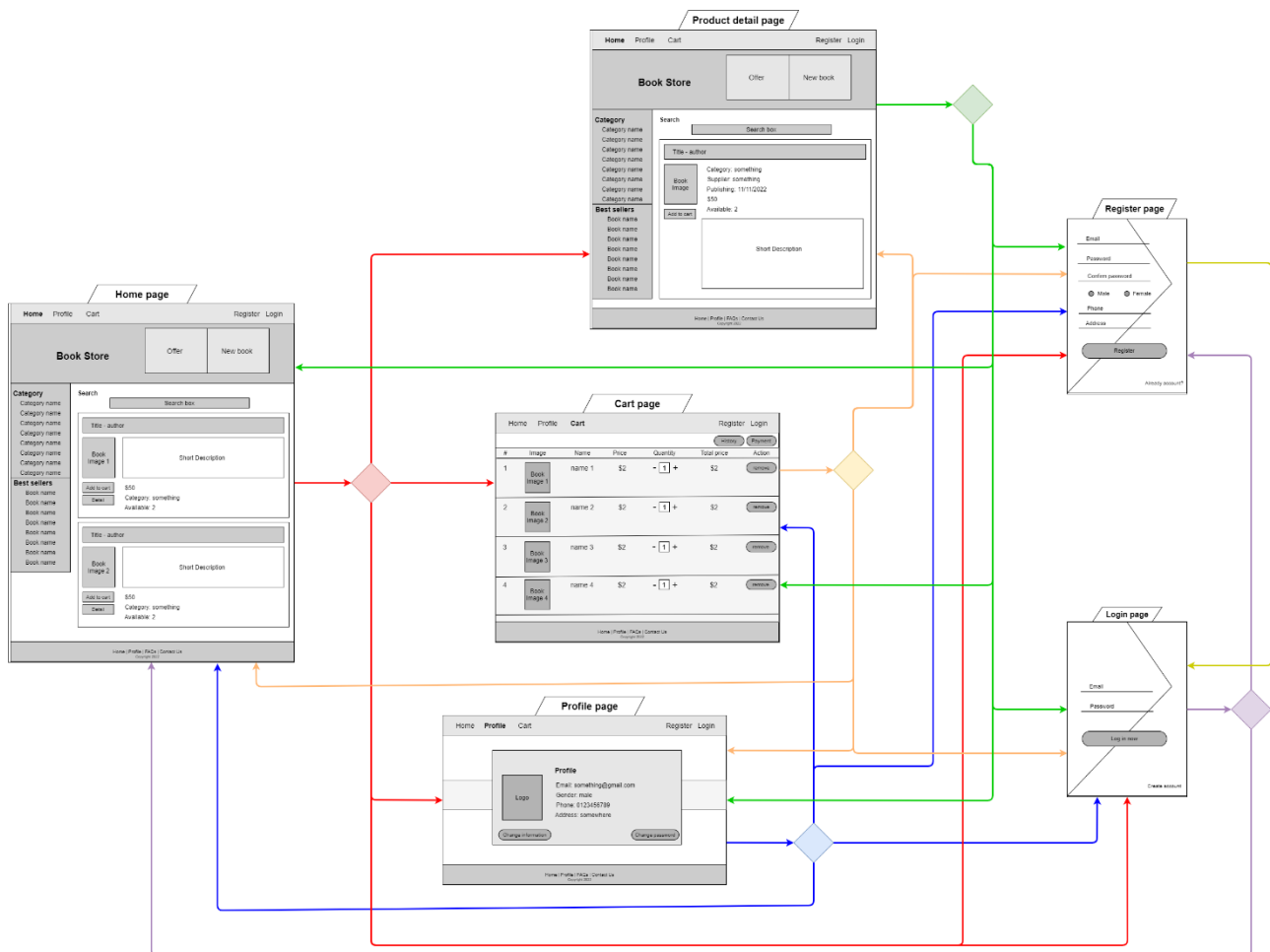
Figure 53. View all shop owner page mockup

In the view all shop owner page admin can view all shop owner account in the website and in the admin can reset the shop owner account.

ADMIN			
Category	#	Name	Action
Customer Owner Website Logout	1	category name 1	<button>Agree</button> <button>Refuse</button>
	2	category name 2	<button>Agree</button> <button>Refuse</button>
	3	category name 3	<button>Agree</button> <button>Refuse</button>
	4	category name 4	<button>Agree</button> <button>Refuse</button>
	5	category name 5	<button>Agree</button> <button>Refuse</button>
	6	category name 6	<button>Agree</button> <button>Refuse</button>
	7	category name 7	<button>Agree</button> <button>Refuse</button>

Figure 54. Category request page mockup

In this page the admin can agree or refuse the request add new category of owner shop.

Wireflow:**Customer:****Figure 55. Wireflow customer.****Figure 56. Wireflow customer prototype**

Shop owner:

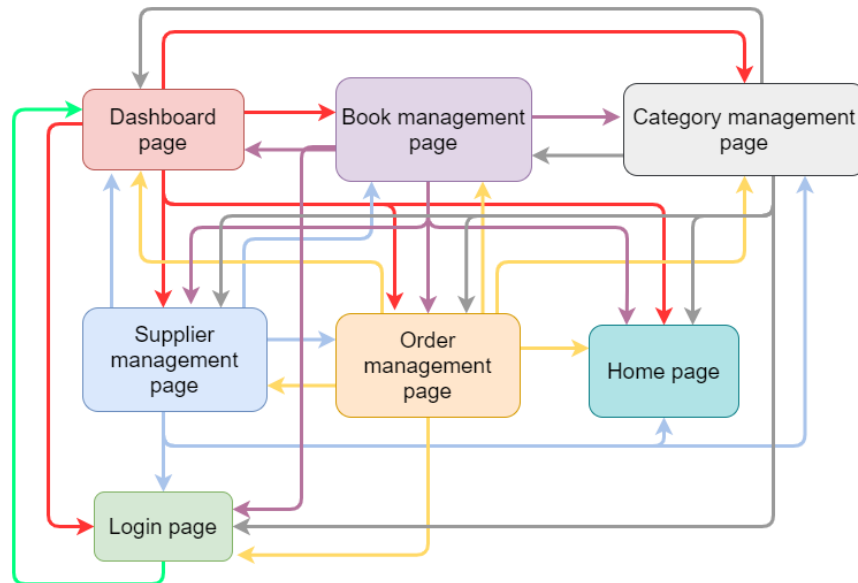


Figure 57. Wireflow shop owner

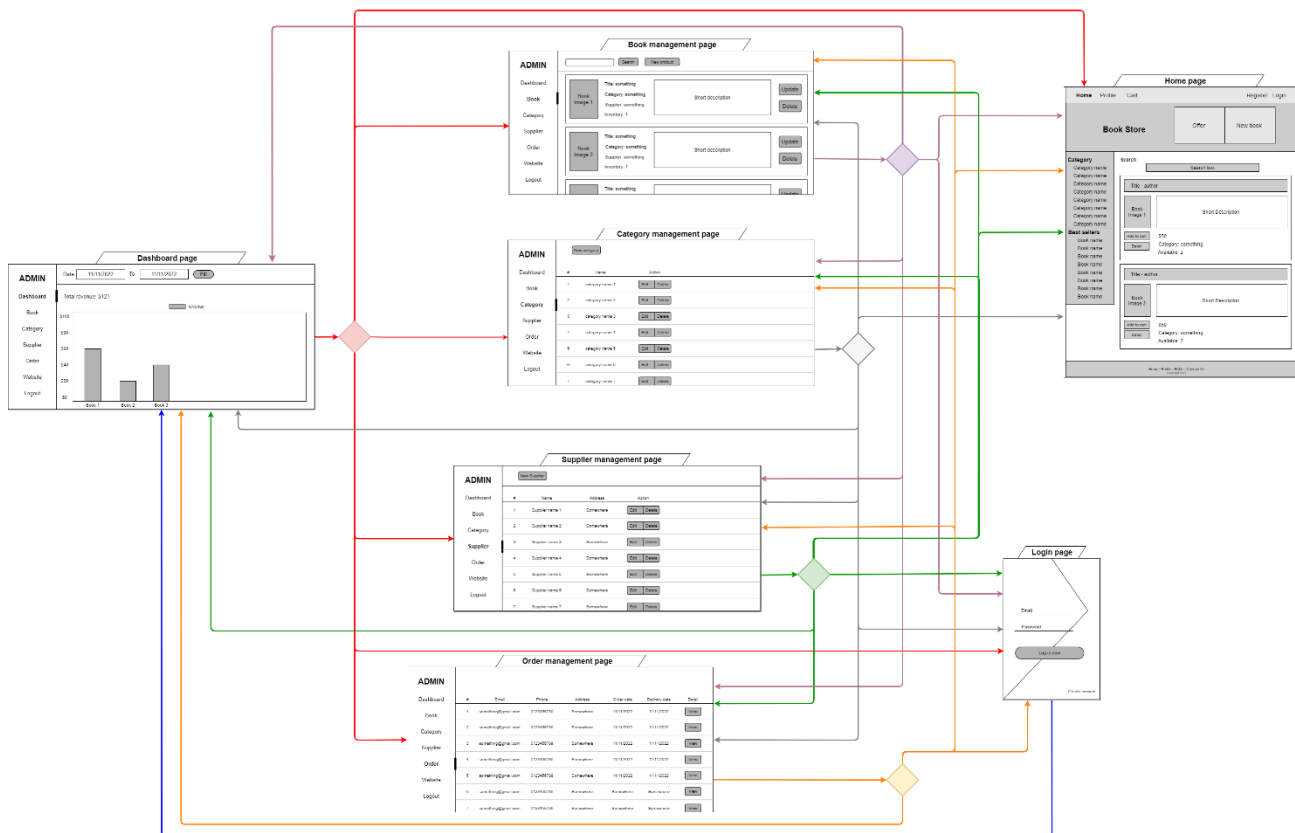
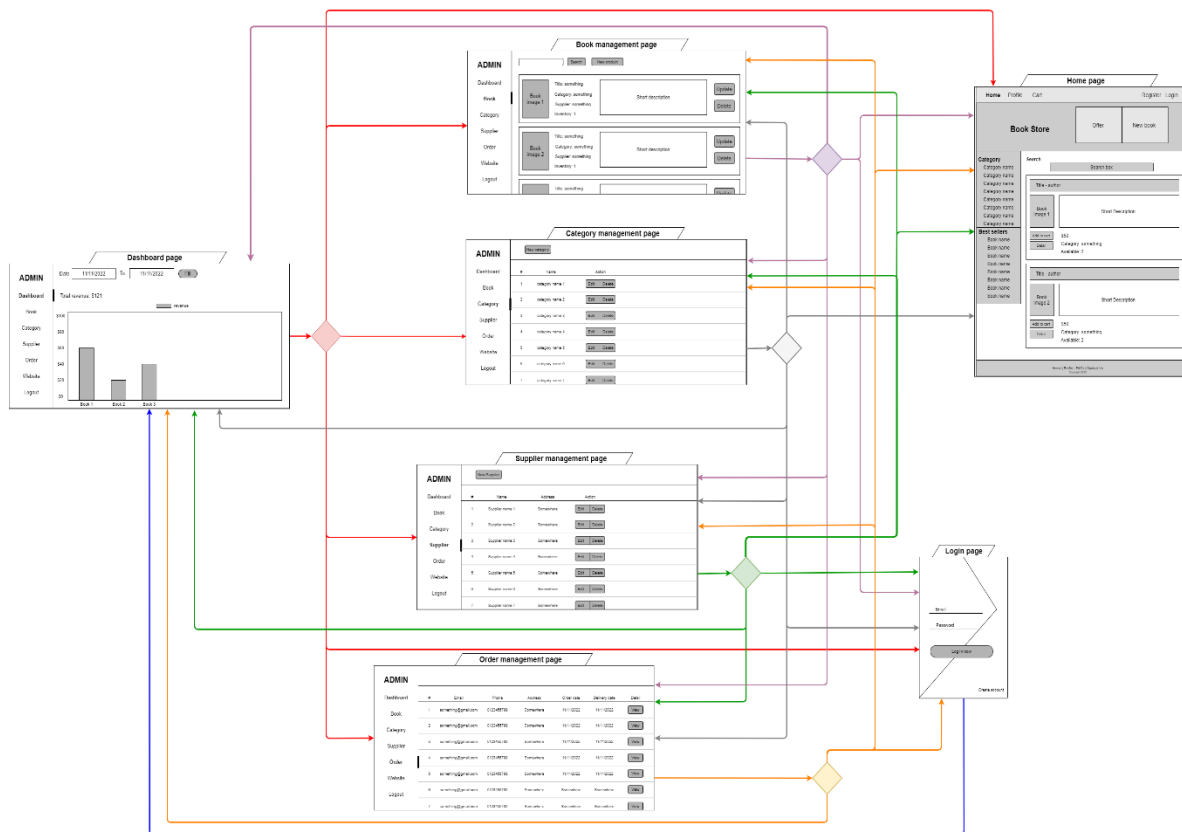


Figure 58. Wireflow shop owner prototype

Admin:**Figure 59. Wireflow admin prototype**

4 Technical Design (M1)

4.1 Entity Relationship Diagram (ERD)

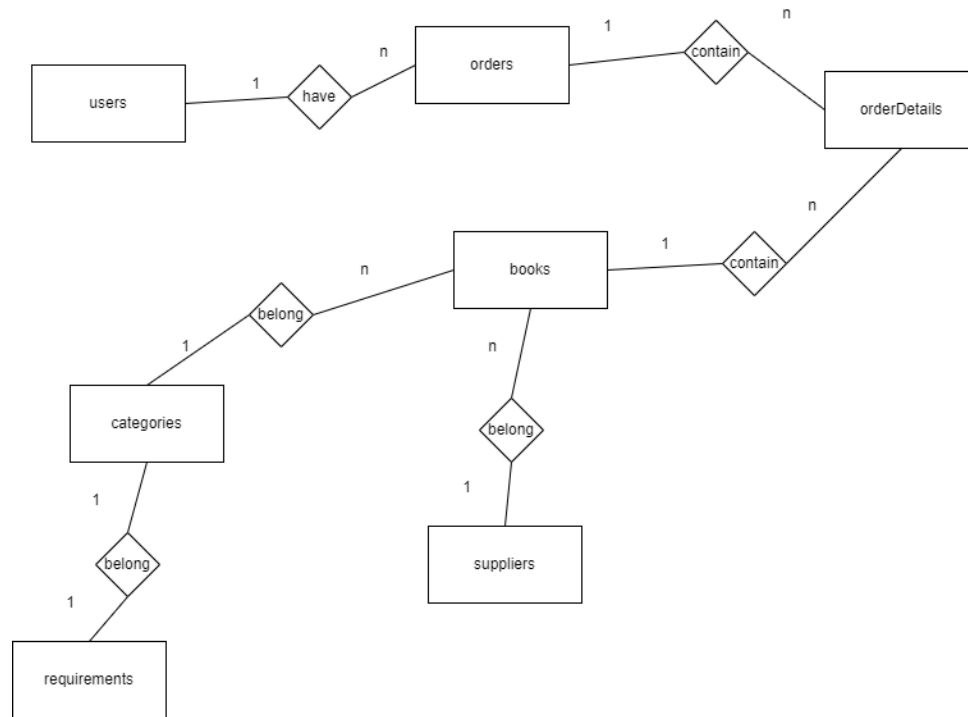


Figure 60. ERD

4.2 Class Diagram

Classes handle login:

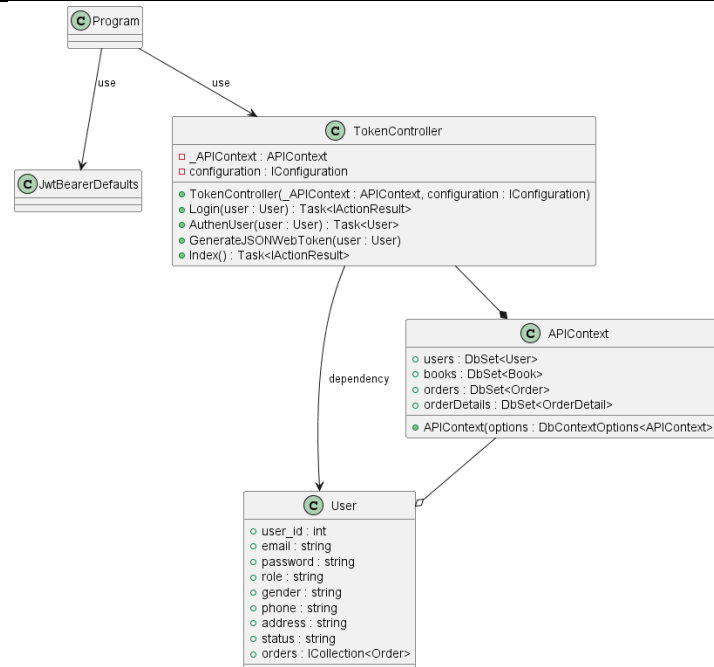


Figure 61. Classes handle login
Classes handle book management

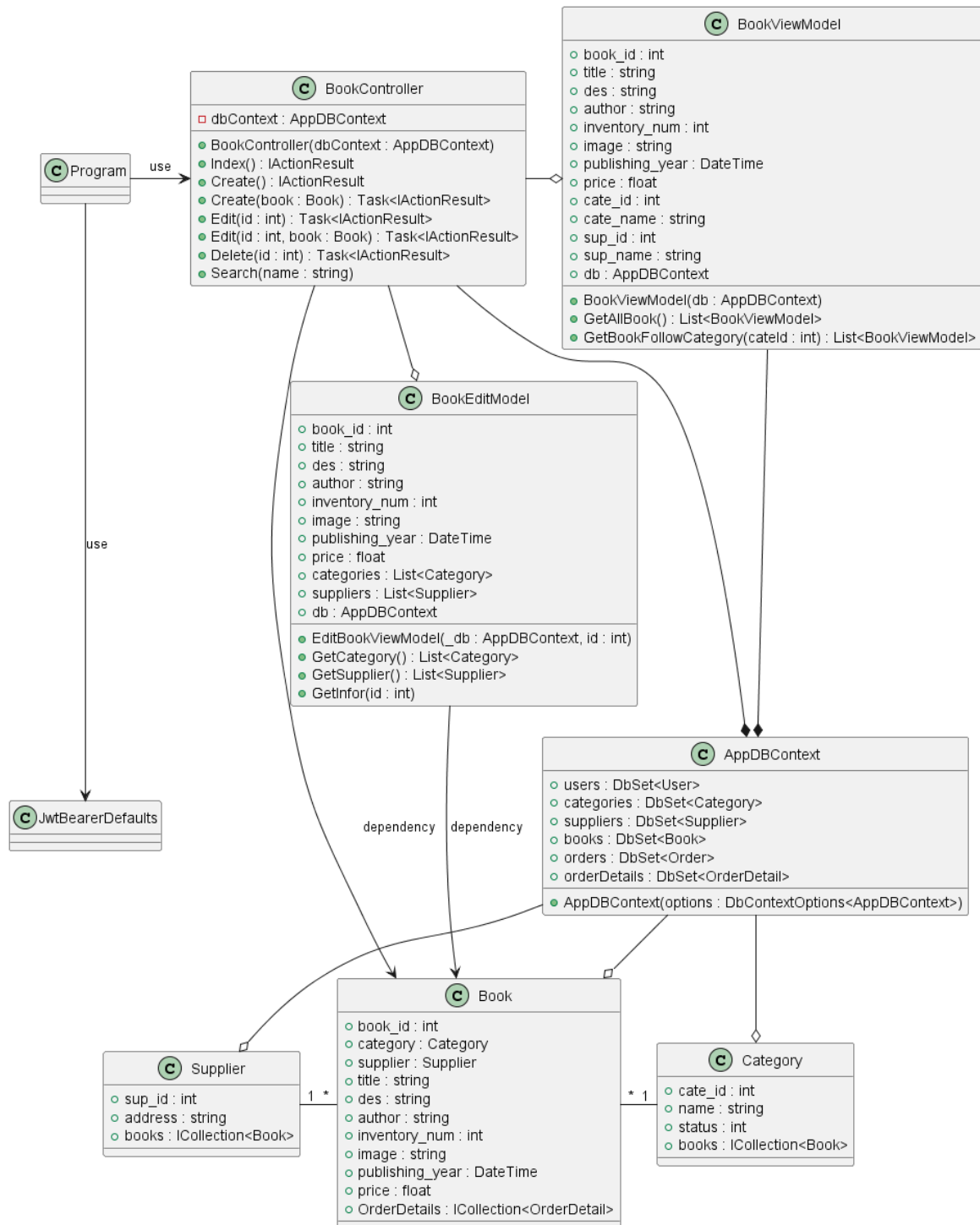


Figure 62. Classes handle book management

Classes handle cart management

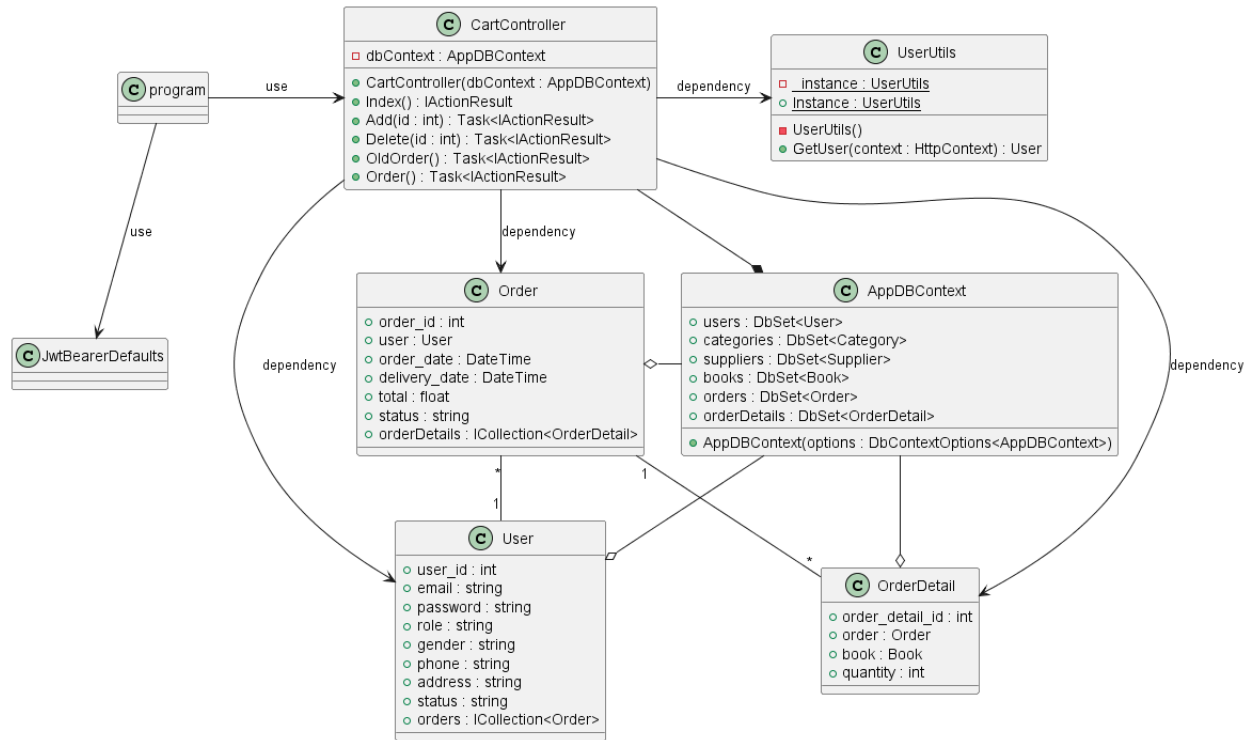


Figure 63. Classes handle cart management

Classes handle category management:

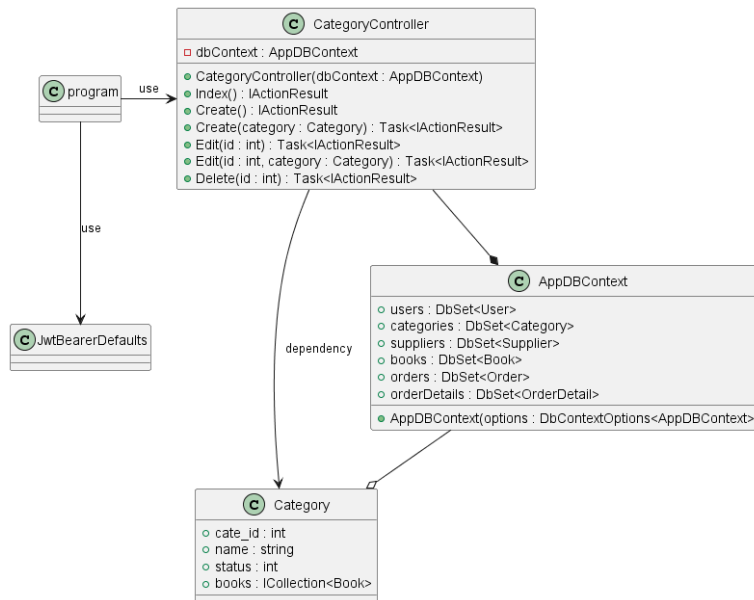


Figure 64. Classes handle category management

Classes handle home page

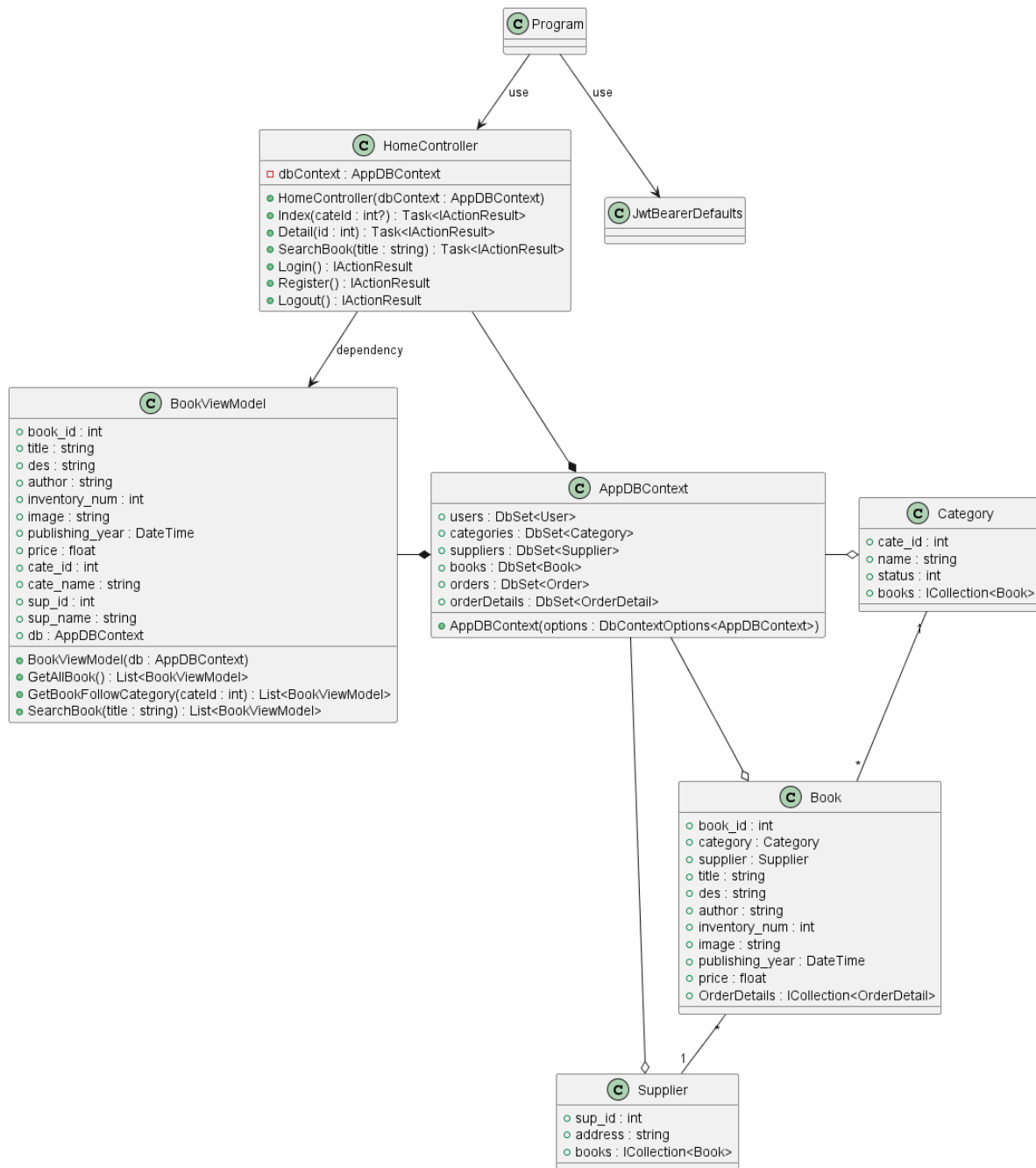


Figure 65. Classes handle home page
Classes handle order management

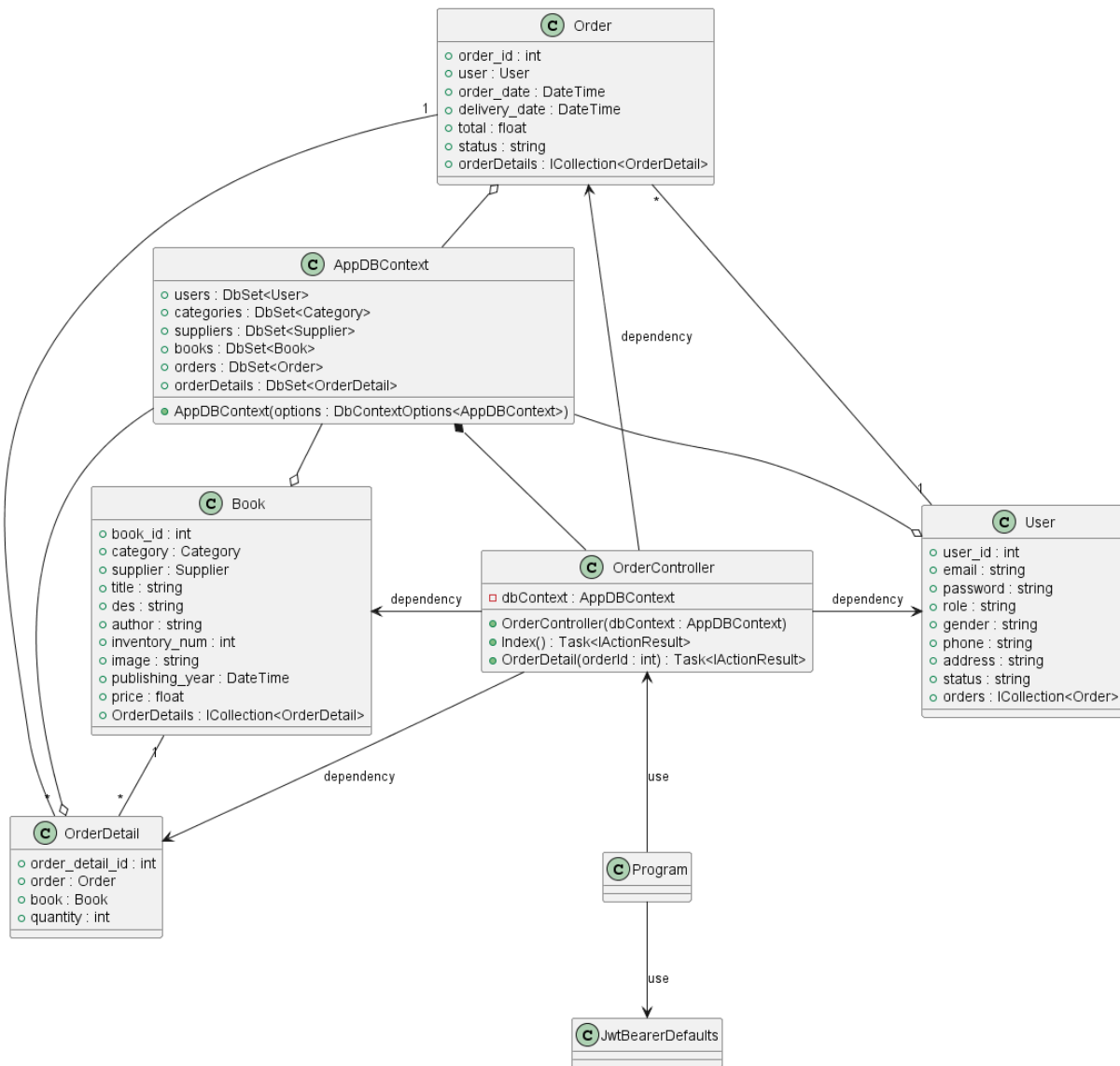


Figure 66. Classes handle order management
Classes handle profile management

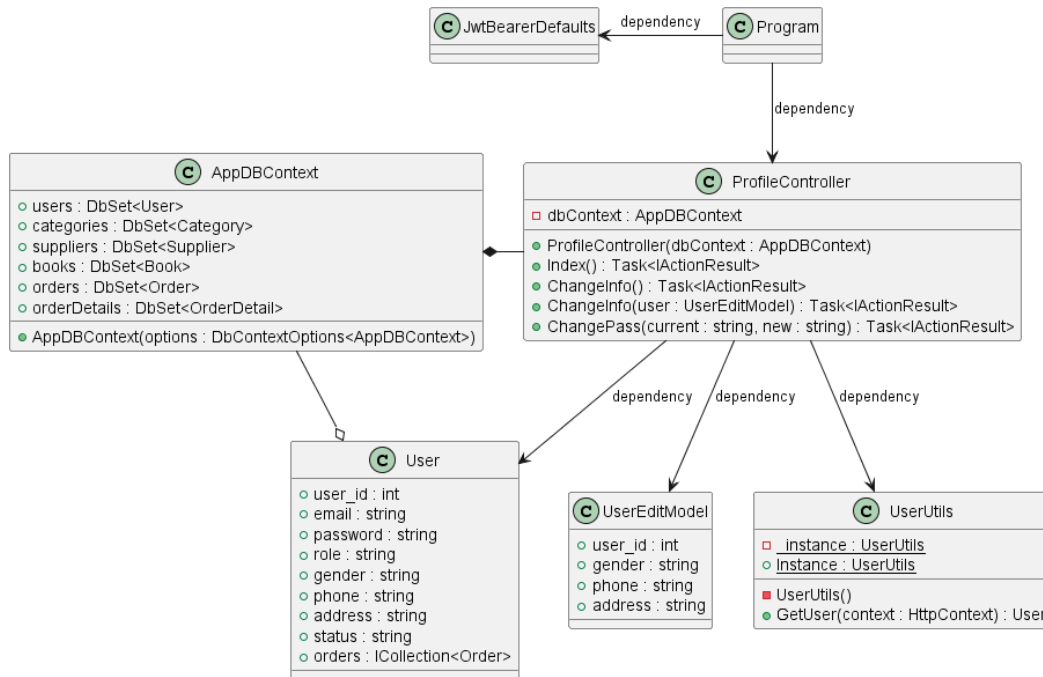


Figure 67. Classes handle profile management
Classes handle Admin management

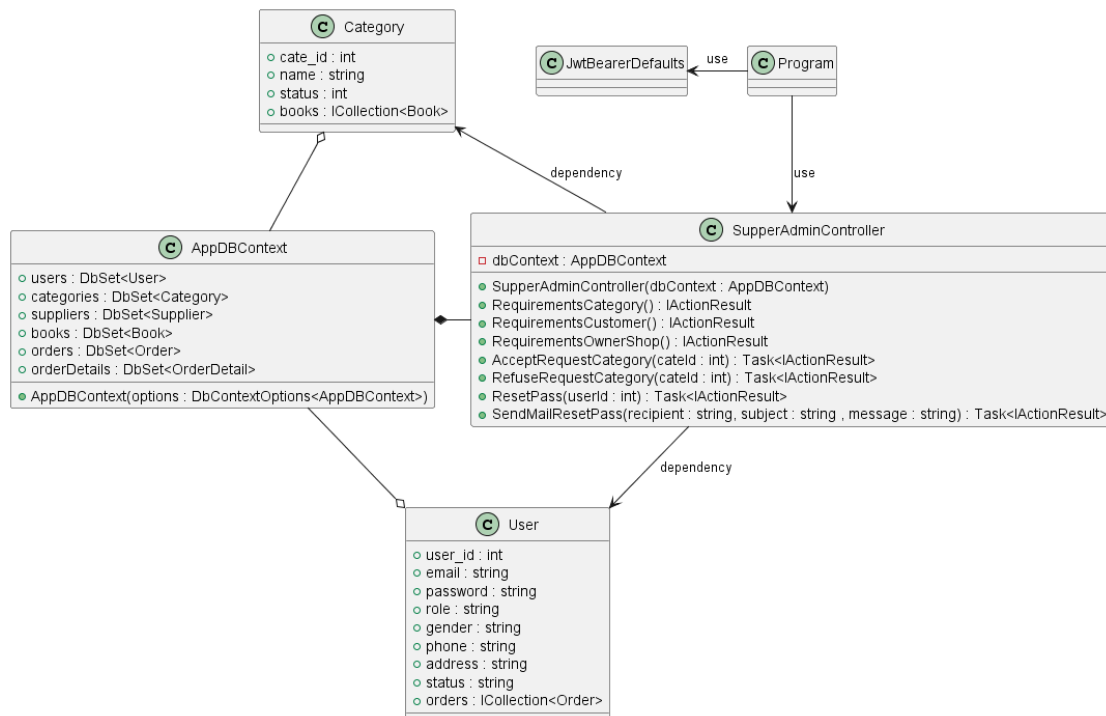
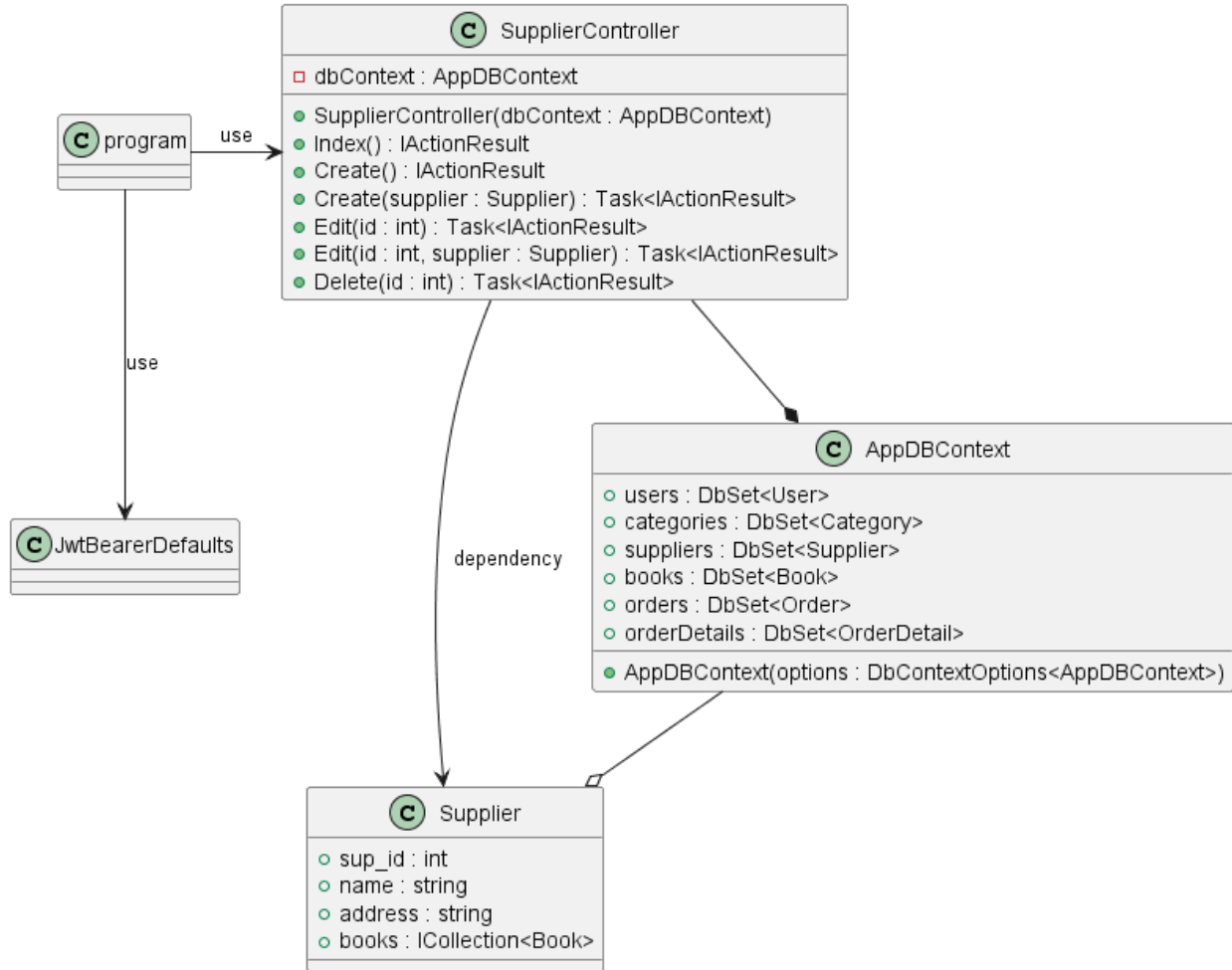
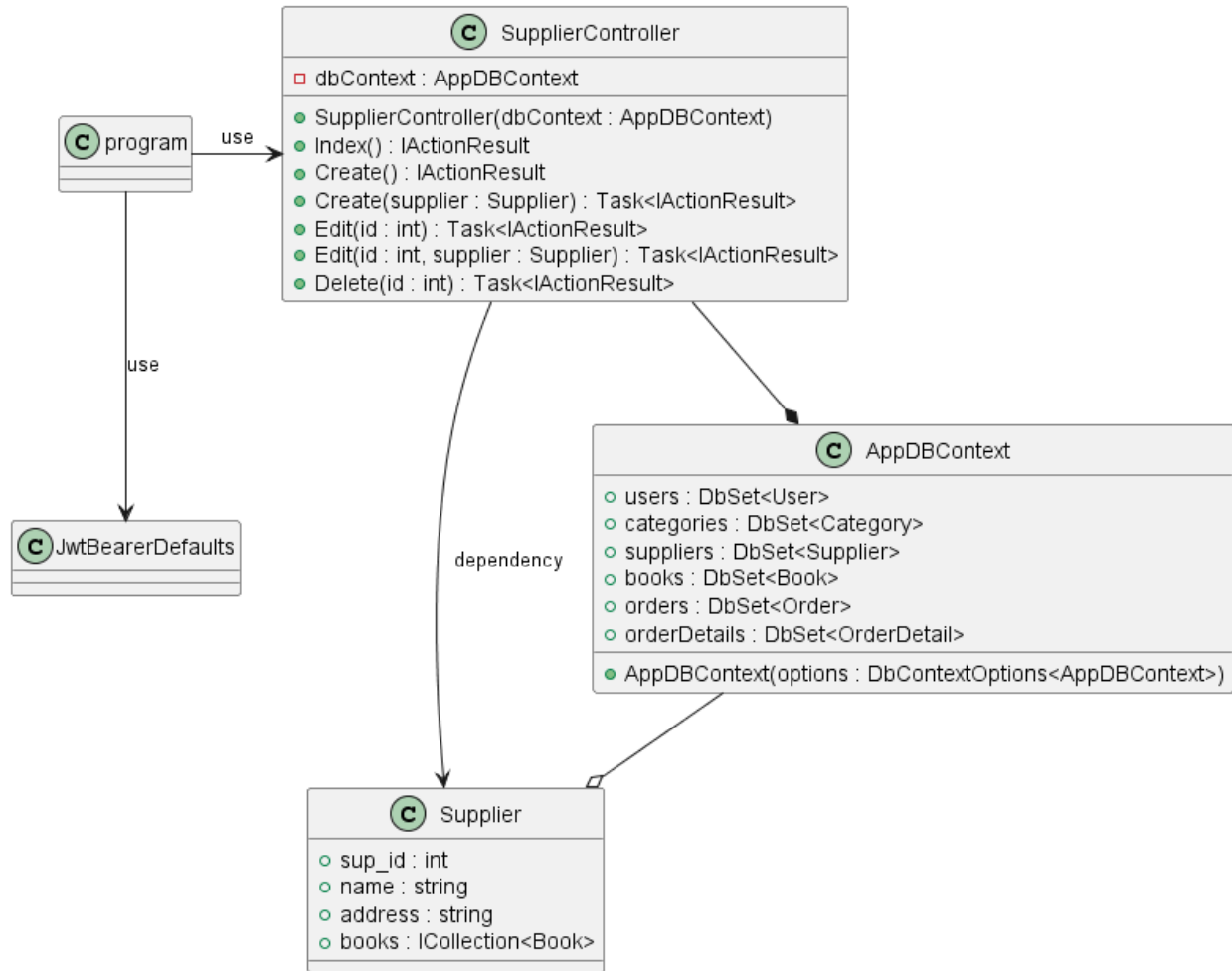


Figure 68. Classes handle Admin management

Classes handle supplier management**Figure 69. Classes handle supplier management**

Classes handle dashboard management**Figure 70. Classes handle dashboard management****Classes handle API for statistic**

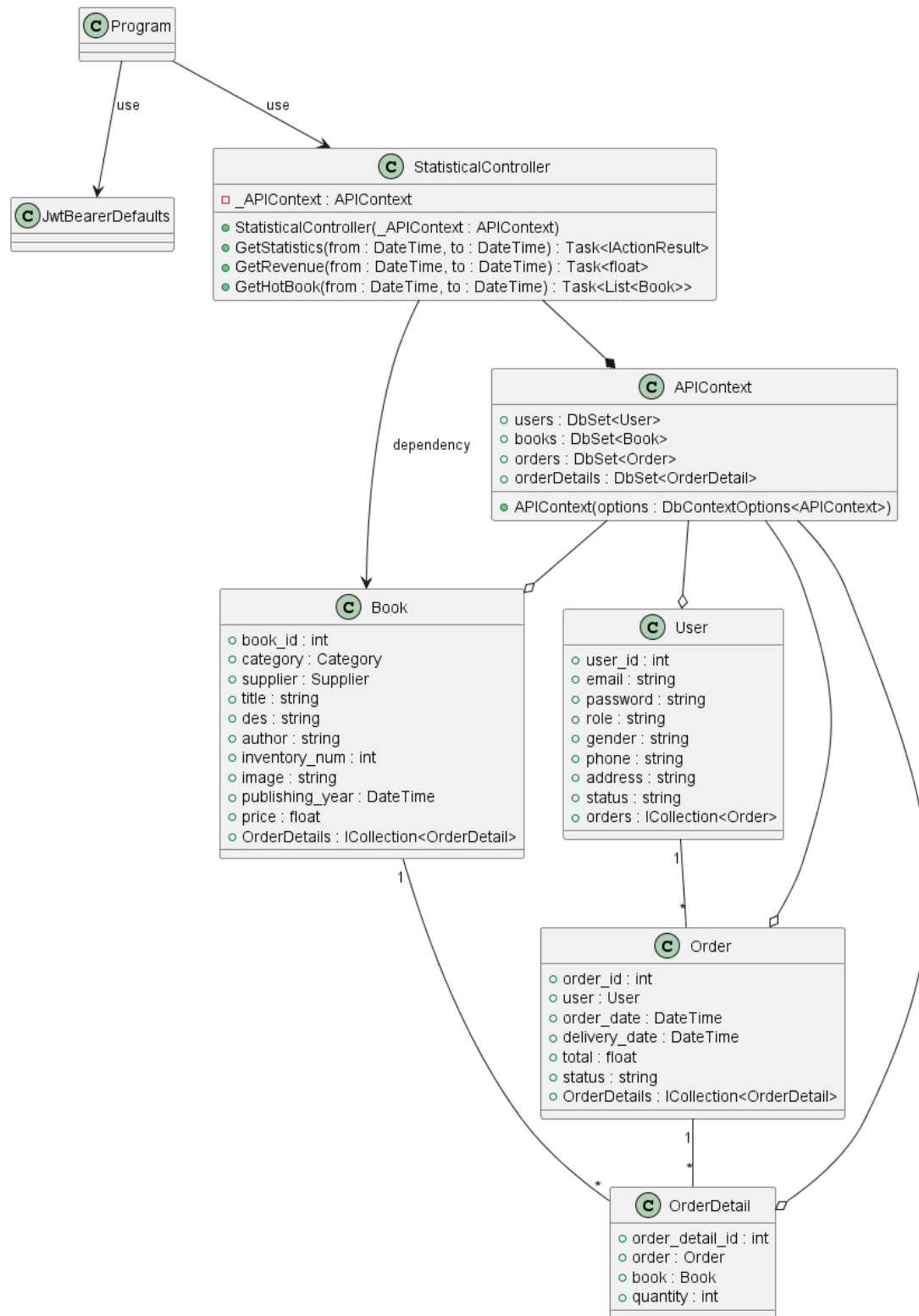


Figure 71. Classes handle API for statistic

4.3 Gantt Chart

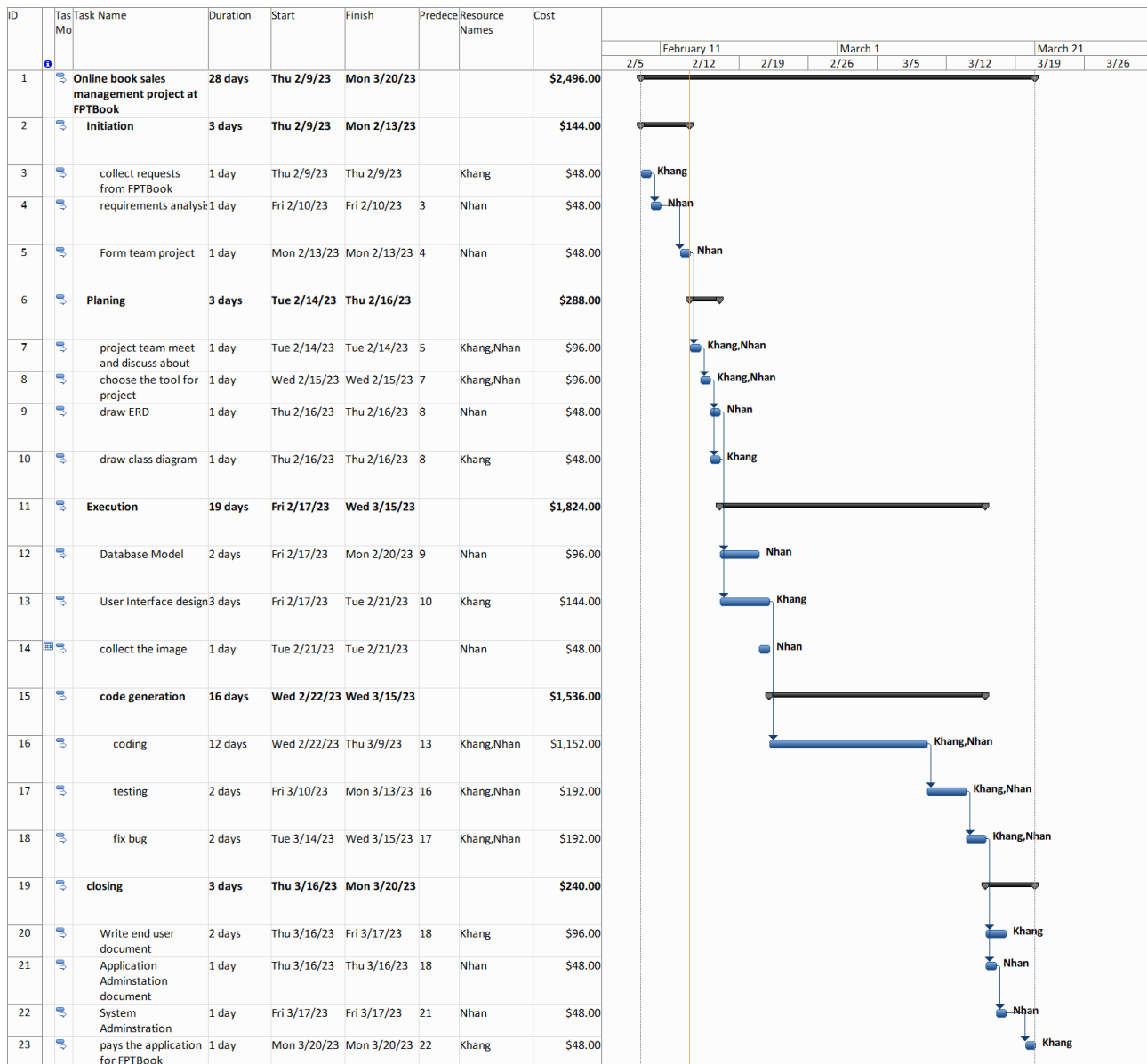


Figure 72. Gantt chart

5 Risk Assessment (P2)

5.1 Risk Assessment

NAME					OBJECTIVE					
Huynh Thanh Nhan					Application Development					
REF / ID	PRE - MITIGATION				DEPARTM ENT / LOCATION	MITIGATIONS / WARNINGS / REMEDIES	POST - MITIGATION			
	RISK	RISK SEVERITY	RISK LIKELIHO OD	RISK LEVEL			RISK SEVERITY	RISK LIKELIHO OD	RISK LEVEL	ACCEPTAB LE TO PROCEED?
1	Member leave the project	TOLERABLE	POSSIBLE	MEDIUM	Team member	Divide the project into many small modules to makes the member who leave project can't leak or have a big impact on the project	ACCEPTABLE	POSSIBLE	LOW	Yes
2	Member delete all project's source	intolerable	POSSIBLE	EXTREME	Team member	restrict access to the entire project's source code, only allowing members to access the part they are entrusted with, and make backups once a day	ACCEPTABLE	POSSIBLE	LOW	Yes
3	Member falls sick	ACCEPTABLE	POSSIBLE	LOW	Team member	Set some contingency plans when one or many member falls sick	ACCEPTABLE	POSSIBLE	LOW	Yes

4	Natural disaster	INTOLERA BLE	POSSIBLE	EXTREM E	Natural	make backups once a day and keep hardware devices in safe places	UNDESIR ABLE	POSSIBL E	EXTRE ME	Yes
5	violate legal matters	INTOLERA BLE	POSSIBLE	EXTRE ME	Governme nt, Project Manager,	Hire the lawyer to discuss about legal issues related to this project and make adjustments	TOLERABL E	IMPROB ABLE	MEDIU M	Yes