SWEN90007 Enterprise System Project --- Part 1

Online Bookstore Management System

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System overview:

Online bookstore management system is an enterprise system integrated within books retailers' business system that supports and automates books retailers' online business process and manages enormous business data, including customers, books inventory, order and customer's preferences data. The online bookstore management system make sure that all these data well managed and consistent across different sub-retailers or function areas. In terms of management features, online bookstore management provides books inventory management, customer relationships management, order tracking and relevant features.

System features:

Feature: Inventory management

> Inventory management is one of the vital feature that provided by online bookstore management. It make sure that books and relevant products inventory data consistent across different sub-retailers and online store. In order to achieve inventory management, it is integrated with other system components like order tracking subsystem and accounting subsystem. Last but not least, this feature supports user from various sub-retailers or online stores get access to the inventory database currently.

User of the feature: bookstore warehouse manager

Use case scenario:

Use case 1. Create a new kind of book into inventory system.

Primary actors: Bookstore warehouse manager

Inventory system

Preconditions: System network connection is active

The system did not contain this kind of product before.

Basic flow of events:

1. Bookstore warehouse manager inputs his id and password.
2. Bookstore warehouse manager login is validated
3. Inventory system displays actions available on device unit. Manager selects add new product

4. Manager inputs the information of book.
5. System prompts information
6. Information sent to main system.
7. Main system checks whether the product is same with other products and update the online bookstore book list.
8. System prompts “adding successfully”

Alternative flows:

2a. Manager inputs wrong id or password and is not validated

2a1. System displays error message

4a. Manager inputs invalid information

4a1. System prompts manager to re-enter valid information

7a. Main system has a same product

7a1. Information sends to device and displays error message

7a2. Manager re-input and redirects to step 3

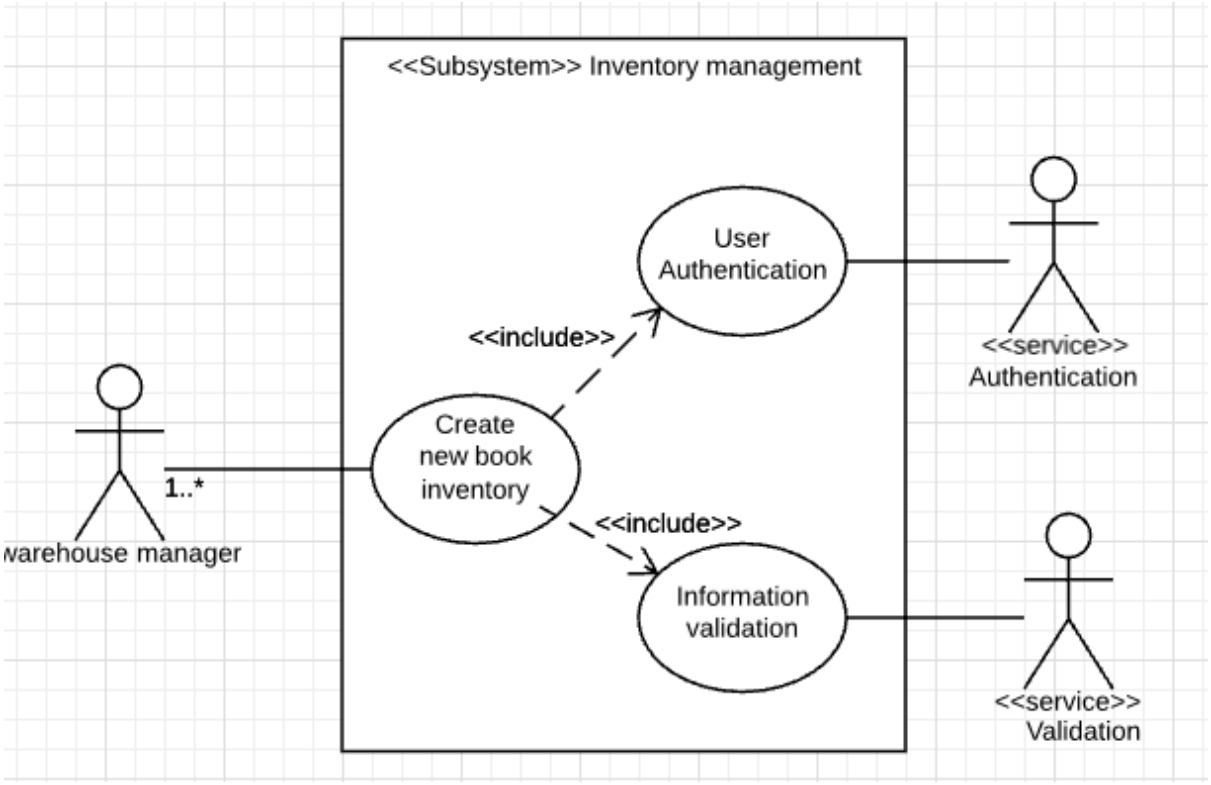

Figure 1 – Use case Create a new kind of book into inventory system

Use case 2. Update book inventory in inventory system.

Primary actors: Bookstore warehouse manager

Inventory system

Preconditions: System network connection is active

The system contains this certain kind of book.

Basic flow of events:

1. Bookstore warehouse manager inputs his id and password.
2. Bookstore warehouse manager login is validated
3. Inventory system displays actions available on device unit. Manager selects update existing book inventory
4. Manager input the information of book (ISBN, name, author) to search the corresponding book.
5. System prompts the search result.
6. Manager update the inventory and the updated information sent to main system.
7. Main system validate the inventory information and communicates with order sub system and business accounting system.
8. System prompts “updating successfully”

Alternative flows:

2a. Manager inputs wrong id or password and is not validated

2a1. System displays error message

4a. Manager inputs invalid information

4a1. System prompts manager to re-enter valid information

5a. System prompts zero search result

5a1. Manager re-input the search information

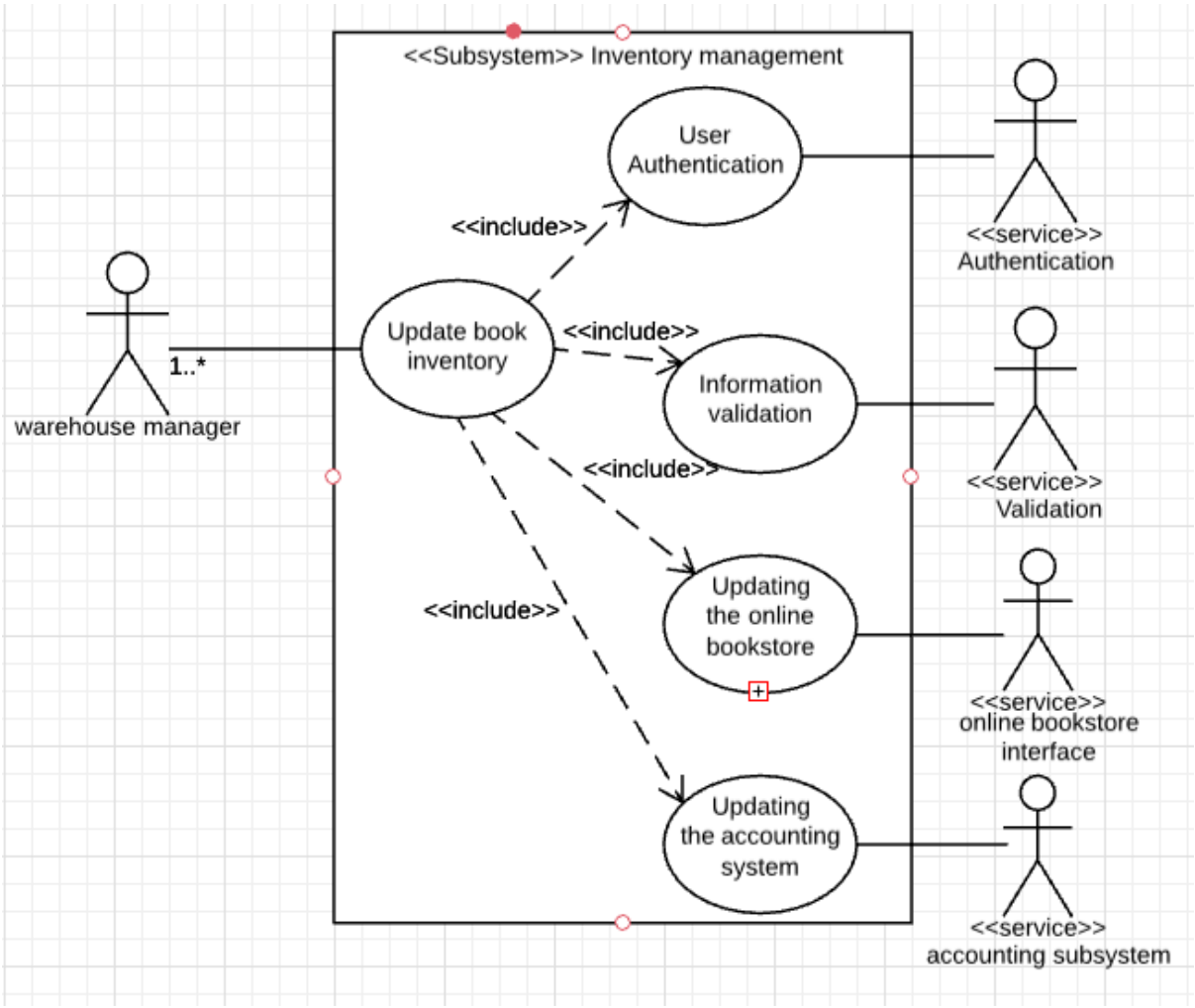

Figure 2 – Use case Update book inventory

Use case 3. Read a certain book inventory in inventory system.

Primary actors: Bookstore warehouse manager

Inventory system

Preconditions: System network connection is active

The system contains this certain kind of book.

Basic flow of events:

1. Bookstore warehouse manager inputs his id and password.
2. Bookstore warehouse manager login is validated
3. Inventory system displays actions available on device unit. Manager selects read existing book inventory record
4. Manager input the information of book (ISBN, name, author) to search the corresponding book.
5. System prompts the search result.

Alternative flows:

2a. Manager inputs wrong id or password and is not validated

2a1. System displays error message

4a. Manager inputs invalid information

4a1. System prompts manager to re-enter valid information

5a. System prompts zero search result

5a1. Manager re-input the search information

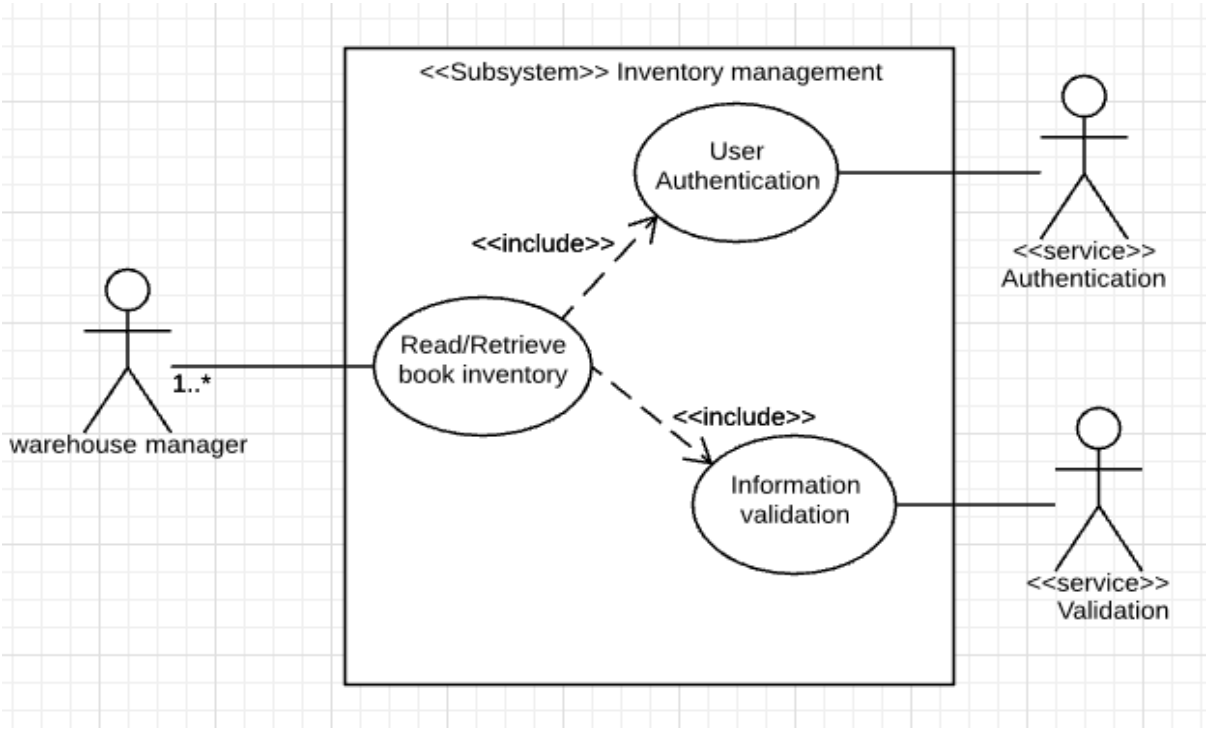

Figure 3 – Use case Read a certain book inventory in inventory system

Use case 4. Delete book inventory record from inventory system.

Primary actors: Bookstore warehouse manager

Inventory system

Preconditions: System network connection is active

The system contained this kind of product before.

Basic flow of events:

1. Bookstore warehouse manager inputs his id and password.
2. Bookstore warehouse manager login is validated
3. Inventory system displays actions available on device unit. Manager selects delete product
4. Manager input the information of book (ISBN, name, author) to search the corresponding book.
5. Information sent to main system
6. System prompts the search result.
7. Manager select the corresponding item and choose “delete”
8. The instruction sent to main system
9. System prompts “deleting successfully”

Alternative flows:

2a. Manager inputs wrong id or password and is not validated

2a1. System displays error message

4a. Manager inputs invalid name

4a1. System prompts manager to re-enter valid information

6a. System prompts zero search result

6a1. Manager re-input the search information

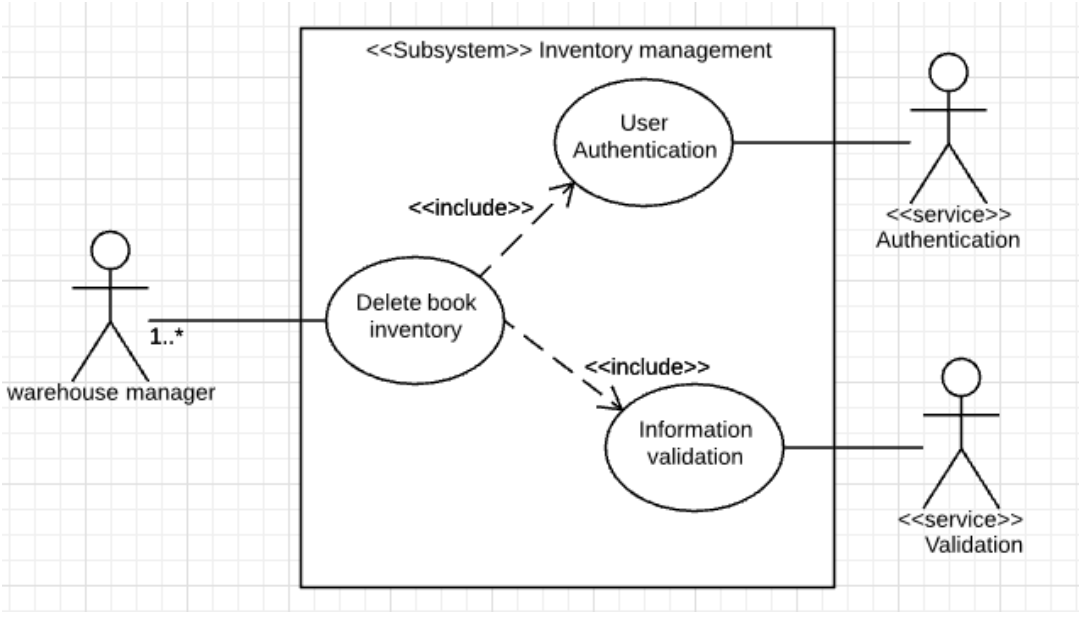

Figure 4 – Use case Delete a certain book inventory in inventory system

Alternative Feature: Customer relationship management

Customer relationship management is another feature that provided by online bookstore management. This feature allow to manage the business relationships enterprises has with their customers. To be more specific, customer relationship management is designed to help business sales staff by managing detailed information on customers' profiles, book purchase history, and customers' preferences, in order to provide more accurate promotion and books recommendation to customers and develop customers' loyalty.

User of the feature: bookstore sales staff