

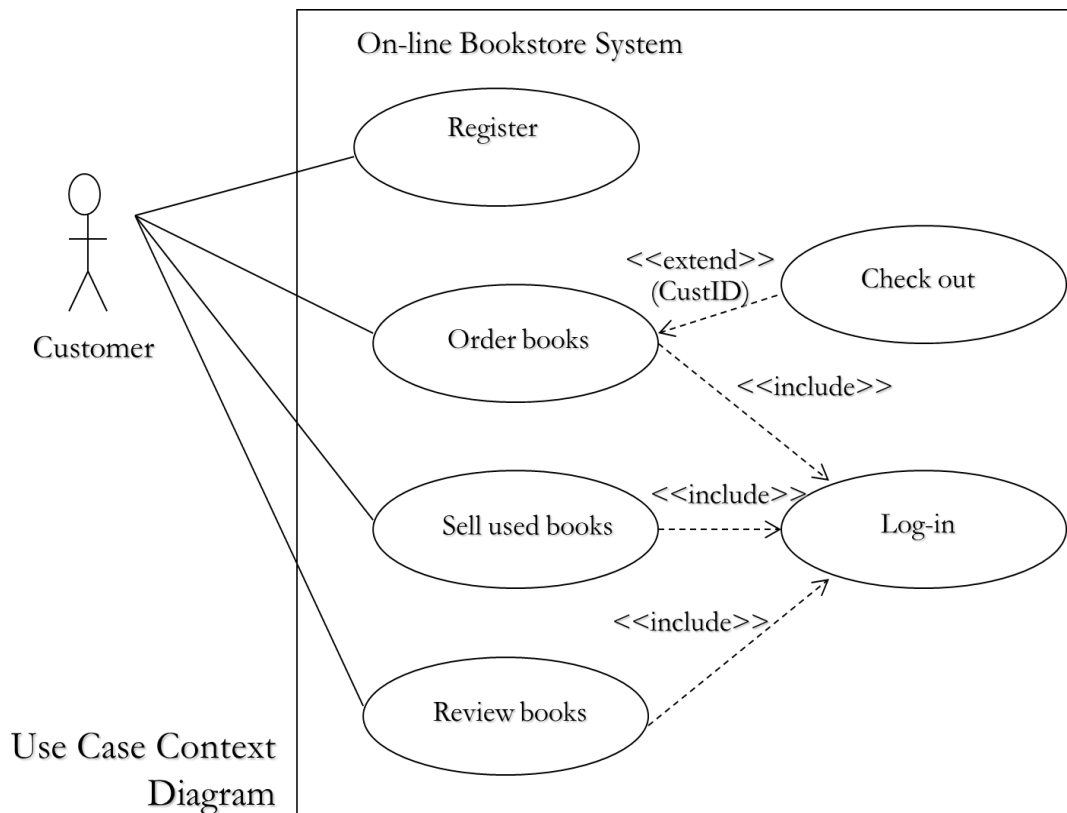
Use Case Context Diagram

Example: Requirements for Case Study (On-Line Bookstore):

- In an on-line Bookstore system, user needs to log-in first before he/she could order and purchase any desired books. Describe the use case for the log-in process of the on-line Bookstore system.
- The steps involved: -
 - Identify the actor : CUSTOMER
 - Identify the use case for the actor (CUSTOMER):
 - REGISTER
 - LOG-IN
 - ORDER BOOKS
 - CHECK OUT
 - REVIEW BOOKS
 - SELL USED BOOKS
 - For each use case, determine include and extend relationships, if any
 - A Customer must log-in first before he/she can order books, check out, review books or sell used books: **include relationship.**

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- A Customer can proceed to check out after he/she has ordered books: **extend relationship**.



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<u>Use Case</u>	<u>Description</u>
Register	<p>A new CUSTOMER needs to first register into the system before performing any transaction.</p> <p>Actor/s: CUSTOMER</p> <p>Pre-condition: An unregistered CUSTOMER.</p> <p>Main flow of events:</p> <ol style="list-style-type: none">1. The CUSTOMER clicks the REGISTER button on the Home Page.2. The system displays the Register Page.3. The CUSTOMER enters all of the required information.4. The CUSTOMER clicks the SEND button.5. The system checks that all of the required information were entered. If yes, the system update the CUSTOMER's record in the CUSTOMER and ACCOUNT tables in the database. System displays OK message. <p>Post-condition:</p> <p>The new CUSTOMER has registered. The ACCOUNT and CUSTOMER tables are updated.</p>
Log-in	<p>A CUSTOMER needs to log-in before performing any transaction</p> <p>Actor/s: CUSTOMER</p> <p>Pre-condition: A registered user.</p> <p>Main flow of events:</p> <ol style="list-style-type: none">1. The CUSTOMER clicks the Log-in button on the Home Page.

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	<ol style="list-style-type: none">2. The system displays the Log-in Page.3. The CUSTOMER enters his/her user ID and password.4. The CUSTOMER clicks the OK button.5. The system validates the log-in information against the ACCOUNT table in the database.6. CUSTOMER is an authorised user; the system displays the Personal Home Page to the CUSTOMER <p>Post-condition: The CUSTOMER has been authorised to perform transactions.</p> <p>Post-condition: The CUSTOMER is not authorised to perform transactions.</p>
Order Books	<p>A CUSTOMER can order books to purchase.</p> <p>Actor/s: CUSTOMER</p> <p>Pre-condition: User have logged-in.</p> <p>Main flow of events:</p> <ol style="list-style-type: none">1. The CUSTOMER enters the keyword for a book and clicks the SEARCH button on the Personal Home Page.2. The system displays the matching books on the web Page.3. The CUSTOMER chooses the desired book and clicks the ADD TO SHOPPING CART button on the web page.4. The system adds the book into the CUSTOMER's Order table in the

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	<p>database.</p> <p>Post-condition:</p> <p>The ORDER table has been updated.</p>
Check Out	<p>A CUSTOMER can purchase the books in his/her Shopping Cart.</p> <p>Actor/s: CUSTOMER</p> <p>Pre-condition: The user have logged in and has at least one book in the Shopping Cart. Main flow of events:</p> <ol style="list-style-type: none">1. The CUSTOMER clicks the Check out button on the Web Page.2. The system displays the books in the ORDER table of the CUSTOMER on the web Page.3. The CUSTOMER checks the order list for any inconsistency. If nothing found, CUSTOMER clicks the PROCEED button.4. The system displays the Invoice page.5. The Customer enters the relevant credit card information and clicks the OK button.6. The system checks that the credit card is valid. Then, the system displays the Delivery Details page.7. The CUSTOMER chooses destination for delivery, along with delivery options. Then, he/she clicks the PROCEED button.8. The system will display the check-out information for confirmation.10. The CUSTOMER checks that all information is correct and then

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	<p>clicks the OK button.</p> <p>11. The system sends a confirmation via CUSTOMER's e-mail.</p> <p>Post-condition:</p> <p>The ORDER table has been updated.</p>
Sell used books	<p>A CUSTOMER can sell his/her used books.</p> <p>Actor/s: CUSTOMER</p> <p>Pre-condition: The user have logged-in..</p> <p>Main flow of events:</p> <ol style="list-style-type: none">1. The CUSTOMER clicks the Sell Used Books button on the Home Page.2. The system displays the Sell used books web page.3. The CUSTOMER enters the required information on the used books that he/she wants to sell.4. The CUSTOMER clicks the SEND button on the webpage.5. The system displays a confirmation page listing the information that the CUSTOMER has entered.6. The CUSTOMER checks that the information displayed are accurate. If yes, the CUSTOMER clicks the OK button on the web page.7. The system updates the USED BOOKS table in the database. <p>Post-condition:</p> <p>The Used Books table has been updated.</p>

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Review Books

A CUSTOMER can review books.

Actor/s: CUSTOMER

Pre-condition: User have logged-in..

Main flow of events:

1. The CUSTOMER enters the keyword to search for a book and then clicks the SEARCH button on the Personal Web Page.
2. The system displays the matching books on the web Page.
3. The CUSTOMER checks for the desired book and clicks on the chosen book icon.
4. The system displays the book's detail in the Book Detail web page.
5. The CUSTOMER clicks the REVIEW button on the web page.
6. The system displays the Review Book web page.
7. The CUSTOMER clicks on the desired star button and the click the OK button on the web page.
8. The system calculates the overall rating of the book and updates the Book table in the database.
9. The system displays the Book Detail web pages that have been updated.

Post-condition:

The BOOK and REVIEW tables are updated.