

Use Cases:

Search for Books

The customer arrives at the system. The system gives the customer the ability to search for the type of book they wish to find. The customer is allowed to search via title, author, ISBN, ISBN-13, genre, year published, edition, or format. The customer may use any of these criteria in conjunction. The system will search all available books and give the customer a list of all the books that match their criteria that are in stock.

If the customer specifies no criteria with which to search, the system will present a list of all books in stock for the customer to browse through. If there are no books in stock that the customer is searching for, the system will tell the customer that there are no books of that nature in stock.

Order Books Online

A customer arrives at the checkout with items to purchase. The system records each item purchased. The system presents a running total of each item purchased so far. The customer enters payment information. This information is how the customer wants to pay, that is, by credit card, paypal, or money order. The system validates the payment information. The customer then enters shipping information. This information is how and where to the customer wants the items shipped. The system updates the store's inventory. The system gives the customer a receipt of purchase and the sale ends.

If the customer arrives with no items to purchase, the system tells the customer he or she has no items to purchase and sends the customer back to the list of books. If the customer's payment information is not validated properly, the system will ask the user to re-enter the information.

Select Books to Purchase

A customer has already searched for books. The customer selects which books they would like to purchase and the system records these books. The customer is then prompted to check out after they have selected which books they wish to buy.

If the customer selects no books to purchase, the system does not ask the customer to check out.

Keep Wish List

The customer has already searched for books. The customer is presented with the option to add any book on that list to their Wish List. The system then presents the customer with the option to see their wish list. If they choose to do so, the system will present their list to them. The Wish List contains the options to add a book to a pre-order list or to purchase a book directly. If the customer chooses to add a book to their pre-order list, the system navigates them to their pre-order list page. If the customer chooses to purchase a book directly, the system will act as if the customer has Selected Books to Purchase.

Rate and Review Books

A customer has already purchased a book. The system will then present the customer with the option to rate and/or review the book. If the customer chooses to do so, the system will navigate them to a place where they can write their thoughts about the book and give it a rating. The system records this information and then the process ends.

The class and sequence diagrams are shown below. Each iteration is started on a new. The final class diagram iteration is labeled as such. The final sequence diagrams are not labeled as such, because each sequence diagram shown only had one iteration.