

Requirements

Prepare the use case document for the Online Bookstore system.

1. Use the attached template. Remove all comments and guidelines from the template and customize for the Online Bookstore System.
 - 1.1 Include a list of use cases. (Section 1 in the template) You may complete this table gradually while describing the use cases.
 - 1.2 Your document should include a detailed description for these major use cases, and any use cases related to them:
 - 1) Create Account
 - 2) Login
 - 3) Checkout

This requires you to copy and complete the use case description table (page 2 on the template) for all the use cases that you will describe. Note that the number of use cases will be more than 5. For example, the use case create account will invoke the use case **Send Verification Email** and you may decompose into (include) the use cases **Enter Personal Infor**, **Enter Payment Info**, and **Enter Address Info**. If the included/extending use case is directly manipulated by an actor, add a use case description for the included or extending use case.

You may fill a row in the use case description table with none. For example, if the use case has no alternative flow, fill the alternative flow entry with none.

Your use case description should specify all details. For example, specify fields to be entered for data entry use cases and which field are required. You also need to add a possible alternative flow, or the exceptions when applicable (e.g. what happened if the user did not enter a required field or the field value is invalid).

You may use conditions in the normal flow. For example, in the manage books use case: if admin chooses add book, the system will display the new book form, ...If admin chooses to edit existing book, system asks the user to enter book title or author, system displays existing book information,.... However, use case decomposition is preferred over this style of description if the use case description will be long (more than one page).

Avoid design and implementation details unless you are referencing a screen or a UI screen mockup.

Example:

Normal flow: 1- The user enters the fields in the customer form and clicks save See Figure 1.

2- The system validates and saves the customer information

The image shows a web-based 'Customer Form' for the 'RMO SYSTEM' (with a logo that says 'HOLD ON TO YOUR OUTFITTERS'). The form has a light blue background. It contains several input fields: 'Customer ID' with the value '1', 'Customer Name' with 'William Henry', 'Mobile Phone' with '(567) 987-2334', 'Home Phone' with '(879) 378-3465', and 'Email Address' with 'WilliamHenry@myemailserver.com'. At the bottom of the form are two buttons: 'Save' and 'Cancel'. Below the form, there are four small navigation icons: a left arrow, a right arrow, a magnifying glass, and a square icon.

Figure1: Customer registration Form for the **RMO System**

2. In the last page of your document, draw the use case diagram for the bookstore system. Include all actors. The diagram should be complete and clear.

If your diagram ends up being unclear or does not fit on a single page, while being readable, draw two diagrams, one for the users' portal (the website) and another for the admin portal.

2.1 Use a modeling tool to draw the diagrams; general tools and drawing are not accepted (e.g MS Word or PowerPoint). *See the group project module on the content page on eLC [for suggested free tools to download.](#)*

2.2 Your diagram should be consistent with the use case descriptions, showing all valid **includes** and **extends** relationships between use cases.

2.3 Show any possible generalization relationship between actors.

2.4 Your use case diagram should convey the following: -

- All users can browse and search for books. Sometimes, they add a book from the search results to the cart.
- Users may or may not view the book details before adding a book to the cart.
- Only logged-in users can check out. If the user is not logged in, the system displays options to log in or to cancel.
- Users can manage their shopping cart. Manage Shopping should be clarified with a **sub-diagram**. This shows possible options to modify the item's quantity or to delete an item from the cart.
- To check out, the user enters or confirms their shipping address, enters or confirms the payment card, and submits the order after viewing the order confirmation page. Upon confirmation, the system stores the order, update the quantity on hand, and sends a confirmation email to the user's email address. Represent the checkout as a general use case, then ***draw a sub-diagram for the use case CheckOut to decompose it into use cases.***
- Represent the admin functionalities in an abstract way (i.e., as composite use cases). Draw sub-diagrams for each of the composite admin use cases; these composite use cases are: -
 - a. Manage books
 - b. Manage promotions
 - c. Manage users.

3. Team leaders should submit the use case document in **pdf** format to the assignment folder on eLC by midnight. The document name should start with your Team#. Example, Team 1_Deliverable2.pdf

Example: decomposing the use case check in Passenger.

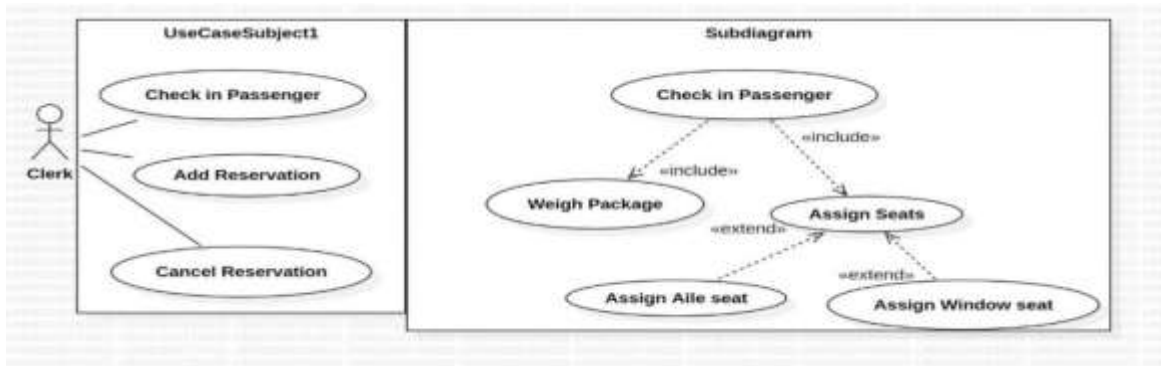


Figure 1: Providing details for the use case check in passenger

Please report any ambiguities by sending clarification request(s) to the instructor on [Piazza](#) or ask the instructor during classes or office hours.