CSCI 4050/6050 | CRN: 35625 Software Engineering

Book E-Commerce SystemDeliverable 2: Use Cases

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Team #7

Team Members

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Case ID	1.0		
Use Case Name	Account Registration		
Created by (name-date)	Jared Cheek (9/18/18)		
Last updated by (name-date)	Jared Cheek (9/18/18)		
Scenario	User wants to register to gain access as a customer, vendor, or administrator.		
Triggering Event	User has become an employee, wants to sell books, is a frequent buyer and wants to store payment info, or to have promo code options.		
Brief Description	User wants to register for an account. Users who wish to be an administrator will have a separate login page to provide more information for employment. All other users will provide basic information about themselves. All non-administrators will have the option to post books or buy books along with promo code options.		
Actors	User		
Stakeholders	User Owner		
Preconditions	User has intentions to either buy or sell books, look to receive promo codes, or oversee as an employer.		
Postconditions	After registration and depending on registration status, user can now post books to sell, browse for books to buy, input payment information, and receive promo codes via email. In addition, employees will have administration access to add/delete/update member/book/order information.		
Flow of activities	User	System	
	1.0 User provides information regarding their level of useness. E.g. customer, vendor, or administrator	1.1 System allocates space in the proper field for either the customer, vendor, or administrator 1.2 System redirects page to the users account settings page	

		of their newly created user profile
Exception Conditions	All text fields must be filled in order to have the information necessary to register.	
Special Requirements	Customer/vendor info: Name, DoB, email. Administrator info: Name, DoB, email, SSN, address.	

Case ID	2.0		
Use Case Name	User Login		
Created by (name-date)	Daniel Lazurka (9/18/18)		
Last updated by (name-date)	Daniel Lazurka (9/18/18)		
Scenario	User wants to login to system.		
Triggering Event	User enters their username and password.		
Brief Description	The User will have a login page displayed to them to enter their username and password. If a username and password is entered, the system should check to make sure the credentials match the user Database and that the user already registered.		
Actors	Customer Admin Vendor Owner		
Stakeholders	Customer Administrator Vendor Owner		
Preconditions	Users must be registered. Users must not already be logged in to an account. Users must enter a valid username and password.		
Postconditions	The system displays the appropriate home page for the type of user: Customer, Admin, Vendor, Owner.		
Flow of activities	User	System	

	1.0 User enters username and password.	1.0 system checks the username and password against the user Database. 1.1 If the user is valid, the system checks what type of user it is and displays the appropriate home page.
Exception Conditions	1.0 If user leaves the username a the system will ask the user to fil 1.0 If user enters the credentials system displays a message saying If the user is already logged into a let the user login into another ac	not associated to an account, the g the credentials didn't match.
Special Requirements	None.	

Case ID	2.1		
Use Case Name	User Log Out		
Created by (name-date)	Daniel Lazurka (9/18/18)		
Last updated by (name-date)	Daniel Lazurka (9/18/18)		
Scenario	User wants to log out of system.		
Triggering Event	User presses the logout button.		
Brief Description	The user is done using the system so the logout button is pressed		
Actors	Customer Vendor Owner Administrator		
Stakeholders	Customer Administrator Vendor Owner		
Preconditions	The Logout button is pressed.		
Postconditions	The system logs the user out and login page is displayed.		
Flow of activities	User	System	
	1.0 User presses the Logout Button.	1.0 System checks if user is logged in. 1.1 If user is logged in, the system logs out the user and displays the Login Page.	

Exception Conditions	If Logout button isn't pressed, the system will not log out user. If user is not logged in, the system will not let user logout.
Special Requirements	Button must be visible to user that is logged in.

Case ID	3.0		
Use Case Name	Book Search		
Created by (name-date)	Kyle, James, Jared, Daniel (9/16/18)		
Last updated by (name-date)	Kyle, James, Jared, Daniel (9/16/18)		
Scenario	User enters criteria to search for a book.		
Triggering Event	User wants to search for a book.		
Brief Description	User wants to search for a book by some criteria. Enters criteria into a search bar and is shown results sorted by relevance.		
Actors	User		
Stakeholders	User Owner Vendor		
Preconditions	User has valid search criteria.		
Postconditions	User is shown books relevant to their search.		
Flow of activities	User	System	
	1.0 - User enters search criteria.	1.1 - System searches database for books matching criteria.1.2 - System displays books in order of relevance.	
Exception Conditions	1.1 - If fields are left empty, prompt user to provide information. 1.2 - If no results match criteria, show "no results found".		

Special Requirements	None.

Case ID	4.0		
Use Case Name	Shopping Cart		
Created by (name-date)	Daniel Lazurka (9/18/18)		
Last updated by (name-date)	Daniel Lazurka (9/18/18)		
Scenario	User wants to put a book into the shopping cart.		
Triggering Event	User clicks shopping cart button on book page.		
Brief Description	The user has an option to put books into a shopping cart for purchase later.		
Actors	Customer		
Stakeholders	Customer Vendor Owner Administrator		
Preconditions	Book must be in stock.		
Postconditions	The book is added to the user's shopping cart. The quantity of that book is decreased by one.		
Flow of activities	User	System	
	1.0 The user clicks on the shopping cart button.	1.1 system adds the book to the shopping cart of user. 1.2 The quantity of that book is decreased by one.	
Exception Conditions	1.1 If the Shopping cart button is not pressed, the book will not be sent to shopping cart of user.		

Special Conditions	None.

Case ID	5.0		
Use Case Name	Reserving Books		
Created by (name-date)	James Kwon (9/22/18)		
Last updated by (name-date)	James Kwon (9/22/18)		
Scenario	User wants to reserve books without having to purchase.		
Triggering Event	User adds books to their cart to reserve for a certain period of time.		
Brief Description	If the user wishes not to purchase a book immediately, they may reserve it by placing it in their cart. Reservation time is limited and eventually will be removed from their cart.		
Actors	Customer		
Stakeholders	Customer Vender Owner		
Preconditions	User adds a book to the shopping cart.		
Postconditions	Book is added to the shopping cart. Stock of book is decreased by 1. Timer set for book reservation.		
Flow of activities	User	System	
	1.0 User adds a book to the shopping cart.	1.1 System recognizes book being added to cart and decreases quantity of stock by 1.	
		1.2 System immediately sets a time limit on book either a countdown or a future time until the book is removed from	

		cart and quantity is increased by 1.
Exception Conditions	1.2 If the user proceeds to checkout, timer is paused. 1.2 If user cancels checkout, remove books from the cart automatically. Prompt user to re-reserve books.	
Special Requirements	None.	

Case ID	6.0	
Use Case Name	Customer Book Purchase	
Created by (name-date)	Kyle Williams (9/22/18)	
Last updated by (name-date)	Kyle Williams (9/22/18)	
Scenario	User wants to purchase a book.	
Triggering Event	User presses the "Checkout" button.	
Brief Description	The user chooses to check out and is redirected to the payment information page. Here logged in users can choose to use previously entered payment information. Alternatively, logged in users and guests can add new payment information (shipping address, billing address, payment type/method). Users can enter valid promotional codes to receive discounts.	
Actors	Customer	
Stakeholders	Customer Vendor Owner	
Preconditions	User has at least 1 book in their shopping cart.	
Postconditions	User is charged for their purchase. A shipment is scheduled to the shipping address. Confirmation email is sent. User's purchase history is updated.	
Flow of activities	User	System
	1.0 User adds a book to the shopping cart.	1.1 System adds a book to the cart.

	2.0 User presses the checkout button.	2.1 System redirects the user to the checkout page.
	3.0 User selects their payment and shipping information.	
	4.0 (Optional) User enters a valid promotional code	4.1 System checks the promotional code against the database of valid codes.
		4.2 System applies the discount to the checkout price.
	5.0 User confirms purchase.	5.1 System verifies that shipping address and payment information are valid.
		5.2 System charges the user for their purchase.
		5.3 System schedules a delivery to the shipping address.
		5.4 Confirmation email is sent.
Exception Conditions	4.1 If the promotional code is not valid, the user is shown an erro message and asked to re-enter the code.	
	5.1 If the payment method or sh user is shown an error message page.	ipping address are invalid the and is redirected to the checkout
Special Requirements	None.	

Case ID	7.0		
Use Case Name	Payment Information		
Created by (name-date)	Daniel Lazurka (9/18/18)		
Last updated by (name-date)	Daniel Lazurka (9/18/18) James Kwon (9/23/18)		
Scenario	User wishes to complete a book	purchase.	
Triggering Event	User proceeds to "Payment" page from the shopping cart.		
Brief Description	User wishes to purchase a book. From the shopping cart page, user selects to purchase, in which they are redirected to the "Payment" page where they can provide payment information.		
Actors	Customer		
Stakeholders	Customer Administrators Vendor Owner		
Preconditions	The shopping cart must have at least one item and the user has requested to complete purchase.		
Postconditions	The purchase page is displayed with a form to enter payment information.		
Flow of activities	User	System	
	1.0 User clicks on the buy button.	1.1 The system displays the payment form.	
	2.0 User enters payment information then confirms purchase.	2.1 System validates payment information.	

Exception Conditions	1.1 If the user does not have an account, request for email as well.2.1 If the information is invalid, prompt user to fix necessary fields.
Special Requirements	None.

Case ID	8.0		
Use Case Name	Payment Confirmation		
Created by (name-date)	Daniel Lazurka (9/18/18)		
Last updated by (name-date)	Daniel Lazurka (9/18/18)		
Scenario	After a purchase is made, a confirmation will be displayed and sent to the customer via email. The end of the day report will also be updated to include the sale information.		
Triggering Event	User makes a valid purchase.		
Brief Description	The customer is redirected to a confirmation page and is sent a confirmation email regarding their purchase. The End of Day Sales Report is updated accordingly.		
Actors	Customer		
Stakeholders	Customer Owner Admin Vendor		
Preconditions	A valid purchase is made.		
Postconditions	The customer is redirected to a confirmation page with the details of the purchase. An email with the same information is also sent to the user with more detailed information regarding the purchase. The End of Day Sales report is updated accordingly.		
Flow of activities	User	System	
	1.0 User successfully completes a purchase.	1.1 System redirects user to confirmation page with brief details on the purchase. 1.2 System creates a confirmation email and sends it to the user's email.	

	1.3 System updates End of Day Sales report.
Exception Conditions	 1.1 System will not redirect if user does not create a successful purchase. 1.2 The user MUST provide an email for the confirmation email if they do not own an account on the system. Otherwise system will not complete purchase.
Special Requirements	None.

Case ID	9.0		
Use Case Name	Profile Modification		
Created by (name-date)	James Kwon (9/19/18)		
Last updated by (name-date)	James Kwon (9/19/18)	James Kwon (9/19/18)	
Scenario	User wants to edit profile information on his/her registered account.		
Triggering Event	User is logged into their account, visits their profile, and clicks "Edit".		
Brief Description	A user will have already registered an account with the system and provided required information on creation. User will be logged into their account. After login, user will have access to view their profile, from which they can request to edit their information by selecting the "Edit" option available. If changes are made, user is prompted to save before closing.		
Actors	User		
Stakeholders	User Owner		
Preconditions	User has an account. User is logged into their account. User is viewing their profile. User requests to edit profile.		
Postconditions	User finishes modifying their information. User is prompted and accepts changes made to their profile upon exit.		
Flow of activities	User	System	
	1.0 User logs in.	1.1 System searches database for matching login information and either accepts or rejects login request.	

	2.0 User visits their profile.	2.1 System will pull information of the user account from the system and display it in a simple manner for the user.
	3.0 User will select "Edit" option available on profile page.	3.1 System will redirect website to a page with modifiable boxes for personal information on user's profile.
	4.0 User enters information and saves changes.	4.1 System will read the new information that the user has input and modify entries in database so that new information will be viewable on user's profile page.
Exception Conditions	4.1: User will be prompted with a "Are you sure you want to change your information?" upon either leaving the page or pressing the confirm changes button.	
Special Requirements	User must have changed some information from the original for the prompt box to appear, otherwise the page will redirect without asking to save changes.	

Case ID	10.0	
Use Case Name	Update Book Information (Vendor Only)	
Created by (name-date)	Jacob Maraffi (9/19/18)	
Last updated by (name-date)	Jacob Maraffi (9/19/18)	
Scenario	Vendor wants to update information about a product, it's availability, and/or it's details.	
Triggering Event	Vendor logs into his/her registered account, accesses the product database and attempts to edit the corresponding information.	
Brief Description	A Vendor has a registered account with additional information provided to become an employee of the e-commerce website. The vendor has added a product to the product database and added information about this product. (Number in Stock, Price, Name, Description, etc.) After logging into their vendor account, the vendor has accessed the product database and has clicked "Edit Info". Changes made to any product information is immediately updated on the website.	
Actors	Vendor	
Stakeholders	Customer Vendor Owner	
Preconditions	Vendor has an account. Vendor is logged into his/her account. Vendor has added a product to the website. Vendor is attempting to edit the information about the product.	
Postconditions	Vendor is finished modifying the information about a product. Vendor is prompted and accepted changes made to the information about the target product.	
	User	System

Flow of activities	1.0 Vendor logs in.	1.1 System searches database for matching login information and either accepts or rejects login request.
	2.0 Vendor accesses the product database.	2.1 System will pull product information for the vendor's products from the system and display it in a simple manner for the vendor.
	3.0 Vendor updates product information and saves it.	3.1 System will update product information and send it to the website to be displayed.
Exception Conditions	None.	
Special Requirements	Customer/vendor info: Name, DoB, email Product Info: Number in Stock, Price, Name, Description	

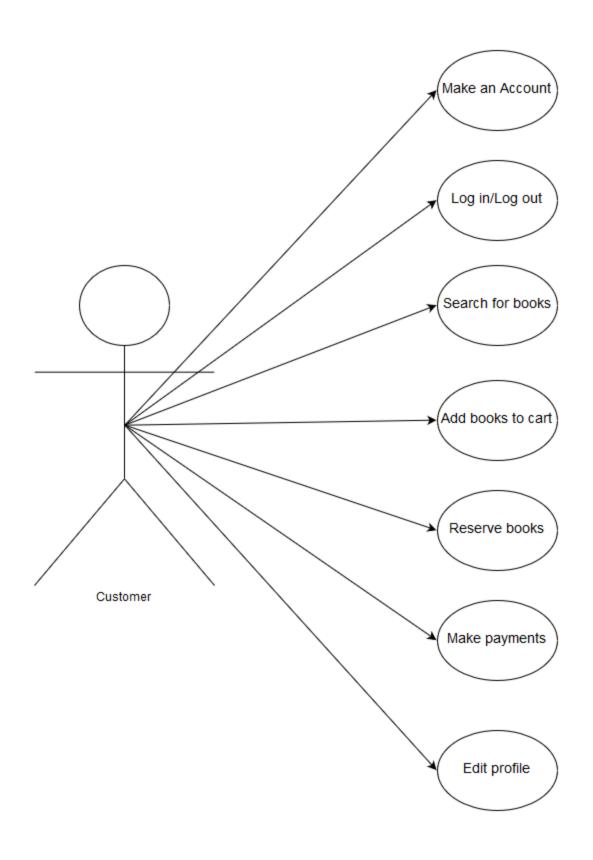
Case ID	11.0	
Use Case Name	Sales Information Request (Vendor Only)	
Created by (name-date)	Jacob Maraffi (9/19/18)	
Last updated by (name-date)	Jacob Maraffi (9/19/18)	
Scenario	Vendor wants to retrieve info regarding how his/her products are performing on the website.	
Triggering Event	Vendor logs into his/her registered account, accesses the product database and attempts to retrieve sales info. Retrieving the sales info is done through the "End of Day Sales Report".	
Brief Description	A Vendor has a registered account with additional information provided to become an employee of the e-commerce website. The vendor has added a product to the product database and added information about this product. (Number in Stock, Price, Name, Description, etc.) After logging into their vendor account, the vendor has accessed the reports section of the e-bookstore and clicks to receive the "End of Day Sales Report" that contains sales information regarding the vendor's products.	
Actors	Vendor	
Stakeholders	Vendor Owner	
Preconditions	Vendor has an account. Vendor is logged into his/her account. Vendor has added a product to the website. Vendor has accessed the report section of the website. Inside the report section the vendor has clicked on the "End of Day Sales Report".	
Postconditions	Vendor receives the "End of Day Sales report" that contains all sales information regarding his/her products.	
	User	System

Flow of activities	1.0 Vendor logs in.	1.1 System searches database for matching login information and either accepts or rejects login request.
	2.0 Vendor access the "reports" section of the e-bookstore.	2.1 System recognizes the user is a valid "Vendor" and allows them to access the reports section of the e-bookstore.
	3.0 "End of Day Sales Report" is delivered to the vendor.	3.1 System compiles a report containing all necessary sales info regarding the vendor's products
Exception Conditions	None.	
Special Requirements	Vendor must have active products on the e-bookstore in order for a sales report to be generated.	

Case ID	12.0		
Use Case Name	Promotional Codes (Admin Only)		
Created by (name-date)	Kyle Williams (9/22/18)		
Last updated by (name-date)	Kyle Williams (9/22/18)		
Scenario	Administrator wants to update promotional code information.		
Triggering Event	Administrator opens the promotional code list editing page.		
Brief Description	The administrator adds/removes/edits promotional code information in a table of promotional codes which can be entered by customers at check out to reduce the prices of purchases.		
Actors	Administrator		
Stakeholders	Administrator		
	Customer		
	Vendor		
	Owner		
Preconditions	User must be logged in as an administrator.		
Postconditions	Promotional code table is updated with valid information.		
Flow of activities	User	System	
	1.0 (Optional) Administrator adds/deletes a promotional code in the table.	1.1 System adds/removes a row in the table.	
	2.0 Administrator edits promotional code information.		

	3.0 Administrator presses the "apply changes" button.	3.1. System checks that all columns in all rows have valid data types. 3.2 System saves the table to a database where it can be checked later against user submitted promotional codes.
Exception Conditions	3.1 If the data entered in a field is not the valid data type, the administrator will be shown an error message and the changes will not be saved.	
Special Requirements	None.	

Customer Use Case Diagram



System

