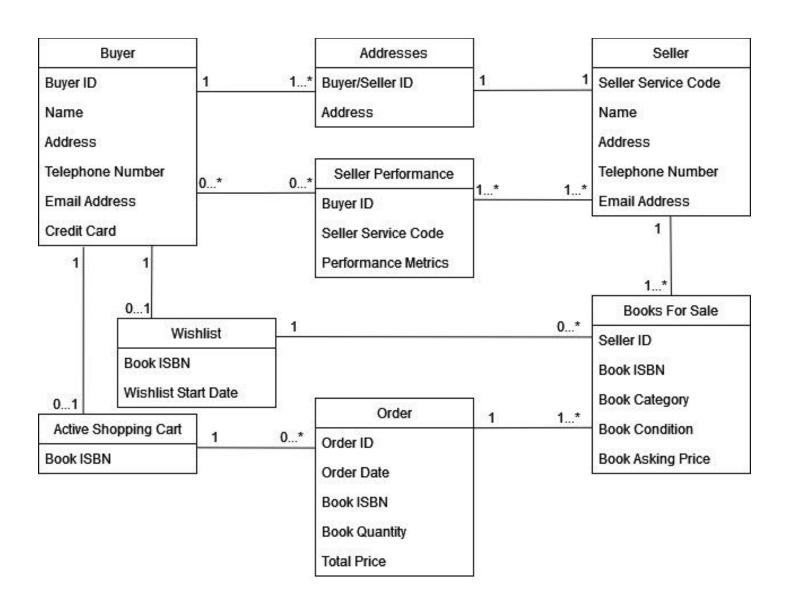
Individual Assignment #2 Christopher Koepke CS 3560.01 March 11, 2022

DOMAIN MODEL CLASS DIAGRAM



USE CASE DIAGRAM

Use Case	Description	Actors/Users
Create Buyer Account	When an individual browses the site for books and decides to buy	Buyer
	one they would need to create a buyer's account. The account will	
	use their name, physical address(es), telephone number(s), email	
	address, and credit card information.	
Create Seller Account	When an individual wants to sell a book on this site, they would	Seller
	need to create a seller's account. They would have to provide a	
	name, physical address, telephone number, and email address.	
Look up Books	An individual that decides to browse the site for books will use the	Buyer, System
	site's search engine to look up books by ISBN, category, price,	
	and condition. The search can consist of one or more conditions	
	described.	
Create Order	When a buyer decides to purchase an X number of books, an order	System
	is created. The order contains the order ID, order date, book ISBN,	
	book quantity, total price.	
Order Notification	When an order is finalized, the system sends an email notification	System, Seller
	to the seller. The system also updates the status of a book as sold	
	on the site. The seller must notify the buyer of the sale within 48	
	hours of receiving the order notification email from the system.	
Order Shipment	The shipping status must be updated by the seller within 24 hours	Seller, Buyer,
	of sending the buyer an acknowledgment of the order from the	System
	order notification use case. Once the system is updated, it	
	maintains the order in a shipped status.	
Mail Check	After 30 days of an order's shipping status being updated, the	System, Seller
	seller will receive a check for the purchase amount of any book(s)	
	bought by buyer(s), minus the company's costs.	
Seller Performance	The buyer may decide to enter information relevant to a Seller's	Buyer, Seller,
	performance. Their shipped order will include a Seller ID that	System
	would then be used on the site to rate the Seller if they so choose.	
	The system will notify the seller of any performance review(s)	
	submitted using their seller ID. The seller may log into their	
	account to view all submitted reviews.	

FULLY DEVELOPED USE CASE DESCRIPTION

Use Case Name	Create Seller Account			
Scenario Scenario	Create a Seller's account for online book	cales		
Triggering Event				
Brief Description	New customer wants to setup an account to sell book(s) on this online marketplace. An individual can create a customer account by requesting a new account setup using			
Brief Description	their name, physical address, telephone number, and email address.			
Actors	Seller			
Related Use Cases	Beller	Schol		
Stakeholders	Accounting, Marketing			
Preconditions	Seller account subsystem must be available.			
	Verification of provided information must be performed.			
Postconditions	Seller account must be created and saved.			
	Address must be created and saved.			
	Address and account must be related to the seller.			
Flow of Activities	Actor	System		
	1. A book seller must indicate a desire	1.1 System redirects potential seller to new		
	to sell their book(s) on our online	user account setup page.		
	marketplace.	1.2 System prompts for name, address,		
		telephone number, and email address.		
	2. New seller must enter their name,			
	physical address, telephone number,	2.1 System creates new Seller's account.		
	and email address; new seller will	2.2 System requests verification of given		
	than submit the information for	name and address to a third-party		
	review.	system.		
		3.1 Upon name and address verification,		
		system associates the Sellers account		
		with the given information.		
		3.2 System returns an account created page		
		to the seller.		
		3.3 System sends out an email notification		
		of the created account to the given email		
		address.		
		4.1 System will redirect to the home page of		
		the marketplace after an X amount of		
		time of no input from new seller.		
T				
Exception	2.1 Missing information.			
Conditions	3.1 Name and address verification failed.			

Use Case Name	Record a Book Order				
Scenario	An order is placed for any book(s) that is/are	An order is placed for any book(s) that is/are for sale on the online marketplace.			
Triggering Event	A buyer has completed a purchase for the book(s) that they requested.				
Brief Description	A buyer has selected a number of books for p	A buyer has selected a number of books for purchase, completed the online purchasing			
	order, and paid with a credit card that matches what is in the system.				
Actors	Buyer				
Related Use					
Cases					
Stakeholders	Marketing, Accounting, Seller				
Preconditions	Buyer adds desired book(s) to their online shopping cart.				
	Credit/Debit system must be active.				
Postconditions	Required funds must requested for withdraw from Buyer's bank.				
	Received requested funds from pertinent bank.				
	System notifies Buyer of successful payment				
	System records the book(s) order.				
		Seller(s) are notified about the payment for the requested book(s).			
	System sends email verification of the order to the Buyer.				
	System records any rejections by the Buyer.				
El C A -4::4:	System submits refunds to Buyer's bank upo				
Flow of Activities	Actor	System			
		1.1 System will update the Buyer's online			
	be added to their online shopping cart.	shopping cart to reflect the Buyer's desired books.			
	2 Once finished browsing a Puyar will	desired books.			
	2. Once finished browsing, a Buyer will complete their order using their saved	2.1 System will create the order.			
	-	2.1 System will create the order.2.2 System will prompt Buyer to verify			
	credit/debit card.	credit/debit card on record.			
	3. A Buyer will inspect their order upon	2.3 System will send payment request to			
	delivery.	pertinent bank.			
		2.4 Once payment request is approved,			
	4. If a buyer feels that their purchase was	system will notify Buyer of			
	not as advertised, they will request a	successful order.			
	rejection and receive a return label to				
	have the book(s) returned to the seller.	4.1 System will email the Buyer a			
		shipping return label upon request for			
	5. Buyer will receive a refund deposited	each individual book that was			
	into their bank account after X number	rejected.			
	of days by the marketplace.	4.2 System will notify Seller(s) of			
		requested book rejections.			
		5.1 System will post refund(s) to the			
		Buyer's bank account after X number			
77		of days.			
Exception	1.1 Buyer leaves the marketplace web page before completing order.				
Conditions					
	2.1 Buyer fails to correctly verify credit/debit card on record. 2.2 Third party banking system not responding to requests for payment.				
	2.2 Third-party banking system not responding to requests for payment.				

