Name: Karthik Handady
Project: Library Checkout system

Requirements:

UR-005 The admin can remove media.
UR-006 The customer can search for media.
UR-009 The customer can add media to their shopping cart.
UR-010 The customer can checkout media in their shopping cart.

Use Case Documents:

Use Case ID:	UR-005
Use Case Name:	Media Removal
Description:	Administrator can remove media from database.

Actors:	Administrator		
Pre-conditions:	Administrator is logged into the system.		
Post-conditions:	Corresponding media count in database is decremented or media entry is completely removed.		
Frequency of Use:	Occasionally by administrators when media is damaged or worn out		
Flow of Events:		**Actor Action**	**System Response**
	1	Click on remove media in startup menu.	Displays search page for media.
	2	Enter media name or ISBN/ISSN in search.	List of media with corresponding name or ISBN are displayed.
	3	Click on media that was being searched.	Access to the media page stating its properties.
	4	Decrement media count to new value.	Changes database value of media count or removes entry from database.
Variations:	4. Completely remove media from database.		
Exceptions:	4. New count value is invalid (ex. negative). 4. Media is currently checked out by a customer.		
Developer Notes:			

Use Case ID:	UR-006
Use Case Name:	Media Search
Description:	Users can search through the database for media.

Actors:	Customers		
Pre-conditions:	Customers have already created an account.		
Post-conditions:	Customers are presented with a page displaying the media's properties and the ability to add it to the shopping cart.		
Frequency of Use:	Used frequently by users.		
Flow of Events:		**Actor Action**	**System Response**
	1	Log in to system.	Display startup page.
	2	Click on search in entry menu.	Displays search page for media.
	3	Enter the Media name and click search button.	List media names that correspond to the search.
	4	Click on media that you were searching for.	Displays the media page stating its properties.
Variations:	3. Use Dropdown menu to search by category for a specific media.		
Exceptions:	3. No media corresponding to the name searched.		
Developer Notes:			

Use Case ID:	UR-009
Use Case Name:	Add media to shopping cart.
Description:	The customer can add media that they want to check out to the shopping cart so they can checkout multiple items at once.

Actors:	Customers		
Pre-conditions:	Customers have an account and are logged in to system.		
Post-conditions:	Customers have an order they can hold on to or proceed to checkout.		
Frequency of Use:	Frequently: Every time customer wants to check-out books.		
Flow of Events:		**Actor Action**	**System Response**
	1	Click on search in start menu.	Displays search page for media.
	2	Enter a media name and click search.	List of tasks displayed that are tagged to this standard.
	3	Click on media name.	Displays media information page.
	4	Click on add to shopping cart.	Adds media to customer order and decrements media count.
Variations:			
Exceptions:	4. Media count is zero (is not available).		
Developer Notes:			

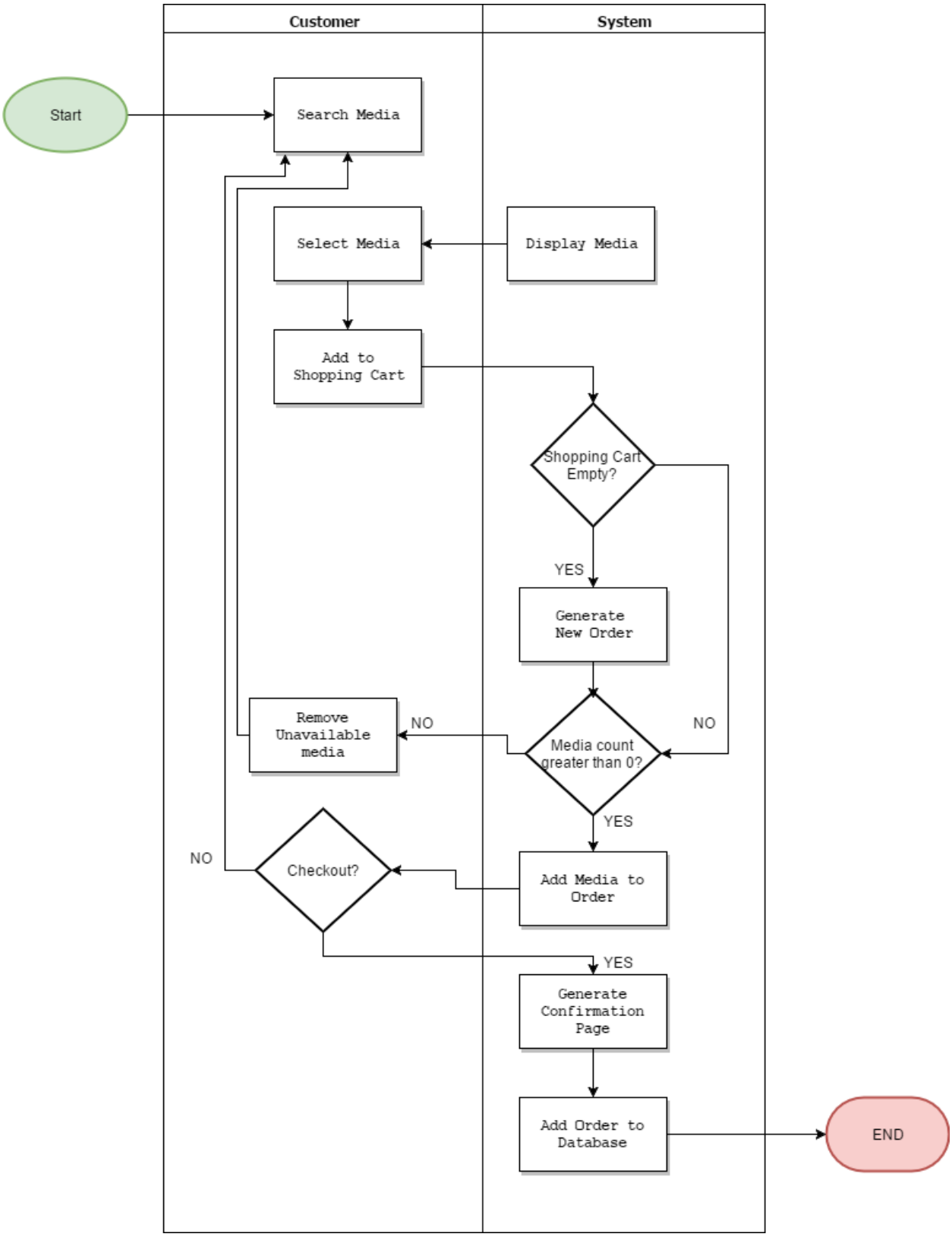
Use Case ID:	UR-010

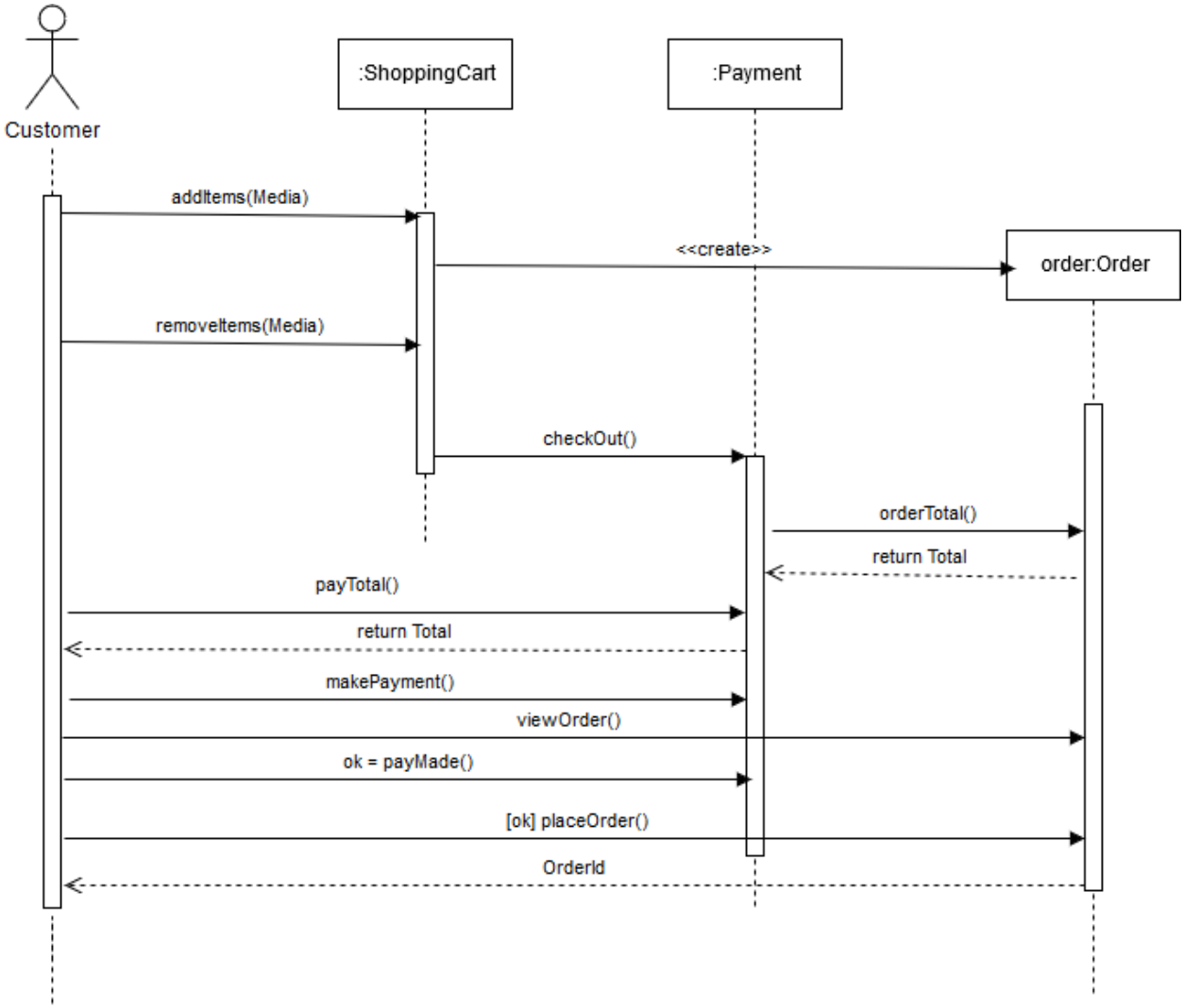
Use Case Name:	Checkout Media
Description:	Customers can checkout media that is currently in their shopping cart.

Actors:	Customers		
Pre-conditions:	Customers have an account and are logged in to the system. Customers have items in the shopping cart.		
Post-conditions:	Customers will have checked out media and database keeps record of the order.		
Frequency of Use:	Frequently: every time customers want to order media		
Flow of Events:		**Actor Action**	**System Response**
	1	Click on search in start menu.	
	2	Enter a media name and click search.	List of corresponding media displayed.
	3	Click on media name.	Display media information page.
	4	Click on add to shopping cart.	Adds media to customer order and decrements media count.
	5	Click on checkout button.	Take user to confirmation page.
	6	Click on accept button.	Complete order and return confirmation of completion.
Variations:			
Exceptions:	5. Shopping cart is empty. 6. Order is unable to be completed due to some change in the system.		
Developer Notes:			

Activity Diagram:

Use Case: Checkout Media (UR-010)


Customer
System
Start
Search Media
Select Media
Display Media
Add to Shopping Cart
Shopping Cart Empty?
YES
Generate New Order
Media count greater than 0?
NO
NO
Remove Unavailable media
YES
Add Media to Order
Checkout?
NO
YES
Generate Confirmation Page
Add Order to Database
END

Sequence Diagram:

Use Case: Checkout Media (UR-10)