



Admin

System

Book Database

Checkout

Payment

The 'System' acts as a Controller here and delegates search, checkout, and payment activities and co-ordinates with the other classes.

The Bookstore Database has all the required information to perform all the needed operations/tasks to fulfill that responsibility. Bookstore Database uses Information Expert pattern in the Search process to fulfill the responsibilities and it also collaborates with other classes in some cases

authenticate

search for book

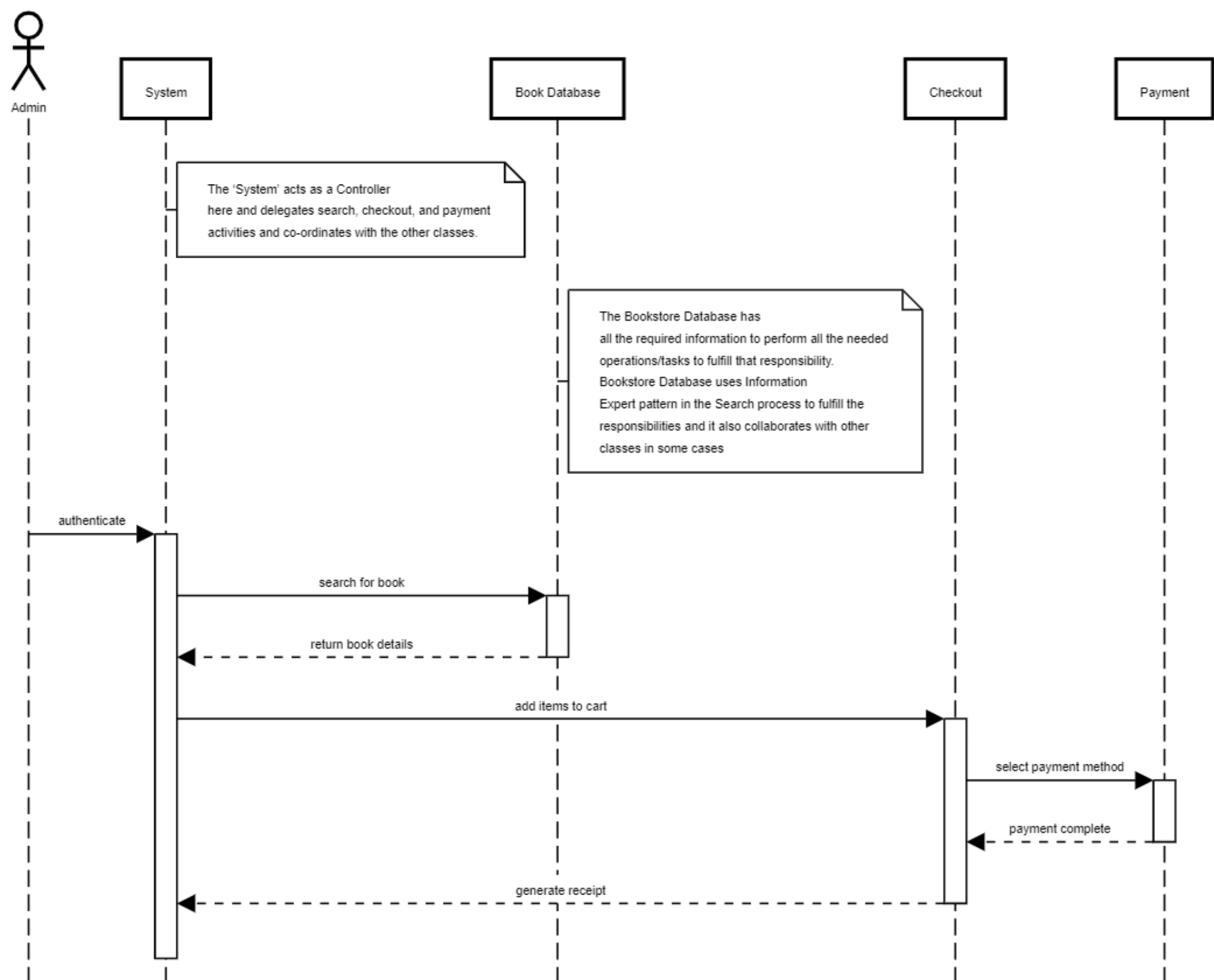
return book details

add items to cart

select payment method

payment complete

generate receipt

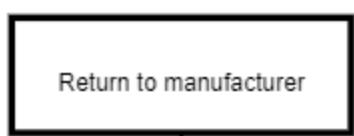




User



Return

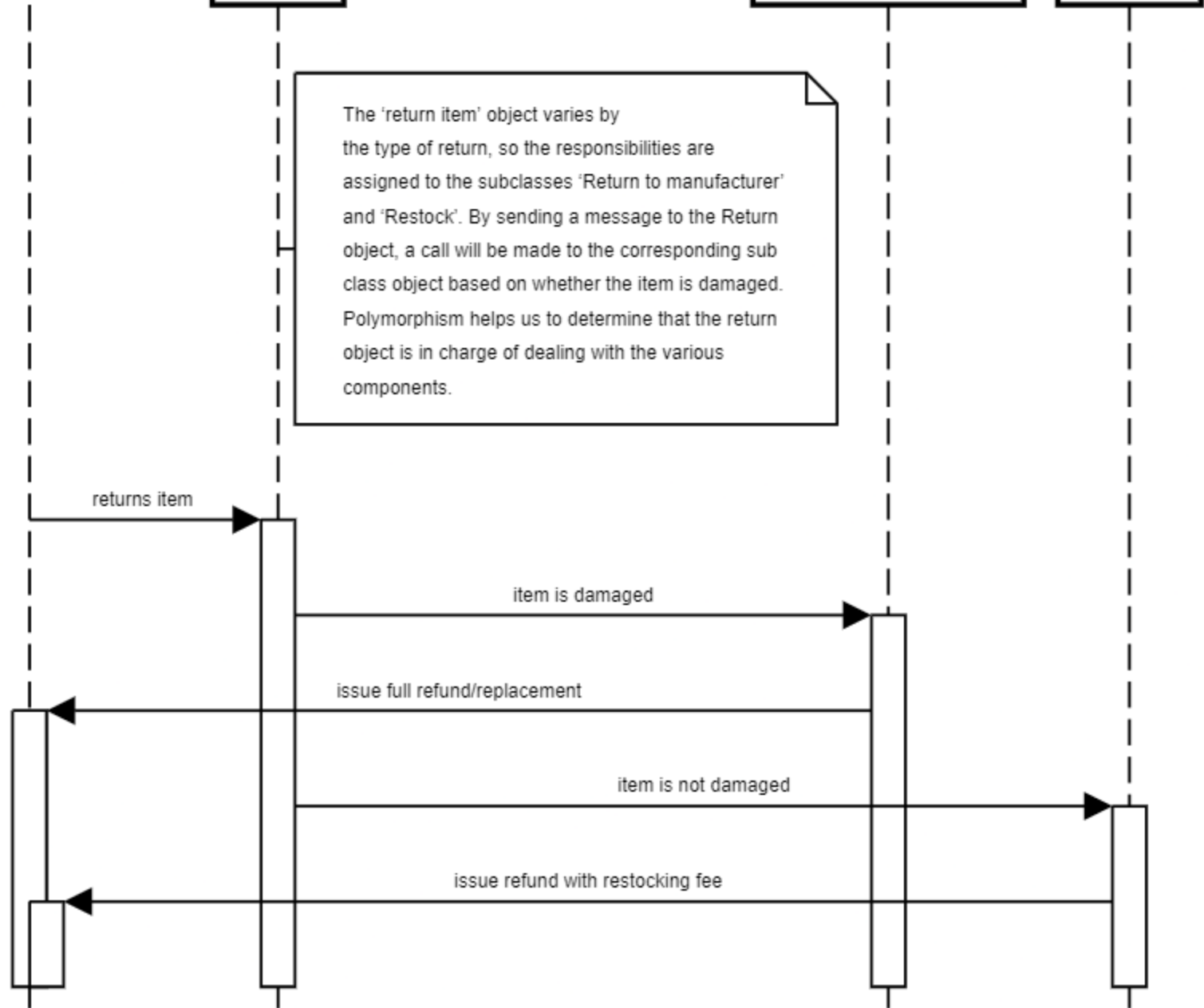


Return to manufacturer



Restock

The 'return item' object varies by the type of return, so the responsibilities are assigned to the subclasses 'Return to manufacturer' and 'Restock'. By sending a message to the Return object, a call will be made to the corresponding subclass object based on whether the item is damaged. Polymorphism helps us to determine that the return object is in charge of dealing with the various components.



Customer

Shopping Cart

Process Order

Order Summary

The container is 'Shopping Cart' and the 'Process Order' is contained object. The Shopping cart creates 'contained' objects. This depicts the Creator design pattern.

add item

customer details

payment details

display order details

confirm order

checkout

