Factory – Store takes in a book name as a string when attempting to add to cart and goes to the books to get books if they are available

Filter – User will add filters to a search, client will iterate over applied filters to reduce search results

Dynamic linkage – Store will accept new books from the book producer and add them to the available purchasable titles, when books stock is updated, it will tell the store to notify subscribers that more is available

Observer – Clients can subscribe to out of stock titles as well as upcoming titles and be notified when they are available

Read/Write Lock – Book will have a read/write lock which prevents the producer from updating stock while clients are loading, and prevent clients from loading while the stock is being updated

Façade – Store will act as a façade for the client to interact with the system