Exercise: Tricky Book Store

4 types of Customer Subscription:

**Premium Account - 200USD/month**

* They can read any books in the old book collection - free of charge.
* In each month, they can buy 3 of the new books with 15% discount. From the 4th book onward in that month, they will need to pay the full price.

**Paid Account - 50USD/month.**

* They can read any books in the old book collection - with 5% charge of the book price.
* In each month, they can buy 3 of the new books with 5% discount. From the 4th book onward in that month, they will need to pay the full price.

**Category Addicted Account - 75USD/month.**

* They can ready any books in the old book collection with the selected book category - free of charge.
* In each month, they can buy 3 of the new books with the selected category with 15% discount. From the 4th book  of this category onward in that month, they will need to pay the full price.
* They will need to pay the full price for all the other book categories.

**Free Account - 0 USD/month**

* They will need to buy the books in the old book collection with 10% discount.
* They will need to pay full price for the new books.

*Note*:

* At a point of time, customer subscription can be more than 1 type of Account. Below is the order priority for the types of account that the rules should apply:

Premium -> Category Addicted -> Paid -> Free.

* In addition, customer can also buy more than 1 Category Addicted Account (e.g.: They will buy Category Addicted Account for Novels and History books)

**Requirement**:

* Given the current subscriptions of a customer and the books they purchase in that month, calculate the amount that customer will need to pay for that month.
* Add a console app to demonstrate Dependency Injection and how to consume IPayment. Following are the expected behavior of the Console app:

Diagram

Description automatically generated