CheckOut

-m_runningTotal : double = 0
-m_booksToSell : string[]
-m_currPayment : Payment
-m_currShipment : Shipment

+addBookToSale(in bookISBN : string)
+addBookToSale(in bookISBN-13 : string)
+enterPaymentInfo(in runningTotal : double) : Payment
+enterShippingInfo() : Shipment
+validatePayment(in m_currPayment : enterPaymentInfo) : bool
+updateStoreInventory(in booksToRemove : string[])
+printReceipt(in books : string[], in currentPayment : Payment, in currentShipment : Shipment)
+finishCheckOut()

Shipment

-m_shipToName
-m_shipToAddress
-m_shipType : int

+enterShipToName()
+enterShipToAddress()
+saveShipmentInfo(in shipToName : string, in shipToAddress : string)
+getShipToName()
+getShipToAddress()
+getShipType()
+enterShipType()
+finishEnterShipmentInfo(in doneWithShipment : bool)

Payment

-m_paymentType : int = -1
-m_paymentAmount : double = runningTotal
-m_billToName : string
-m_billToAddress : string
-m_creditCardName : string
-m_creditCardAddress : string

+enterPaymentType()
+getPaymentType() : int
+updatePaymentAmount(in paymentAmount : double)
+enterBillToName()
+enterBillToAddress()
+getBillToName()
+getBillToAddress()
+savePaymentInfo(in paymentType : double, in paymentAmount : double, in billToName : string, in billToAddress : string)
+finishEnterPaymentInfo(in doneWithPayment : bool)

CheckOut

-m_runningTotal : double = 0
-m_booksToSell : Book[]
-m_currPayment : Payment
-m_currShipment : Shipment

+addBookToSale(in bookISBN : string)
+addBookToSale(in bookISBN-13 : string)
-enterPaymentInfo(in runningTotal : double) : Payment
-enterShippingInfo() : Shipment
+validatePayment(in m_currPayment : enterPaymentInfo) : bool
-updateStoreInventory(in booksToRemove : Book[])
-printReceipt(in books : string[], in currentPayment : Payment, in currentShipment : Shipment)
+finishCheckOut()

Shipment

-m_shipToName
-m_shipToAddress
-m_shipType : int

-enterShipToName()
-enterShipToAddress()
-saveShipmentInfo(in *this : Shipment)
+getShipToName()
+getShipToAddress()
+getShipType()
-enterShipType()
-finishEnterShipmentInfo(in doneWithShipment : bool)

Payment

-m_paymentType : int = -1
-m_paymentAmount : double = runningTotal
-m_billToName : string
-m_billToAddress : string
-m_creditCardName : string
-m_creditCardAddress : string

-enterPaymentType()
+getPaymentType() : int
-updatePaymentAmount(in paymentAmount : double)
-enterBillToName()
-enterBillToAddress()
+getBillToName()
+getBillToAddress()
-savePaymentInfo(in *this : Payment)
-finishEnterPaymentInfo(in doneWithPayment : bool)

Search

+searchByGenre(in genre : string) : Book[]
+searchByAuthor(in authorName : string) : Book[]
+searchByISBN(in ISBN : string) : Book[]
+searchByISBN-13(in ISBN-13 : string) : Book[]
+searchByTitle(in Title : string) : Book[]
+searchByDate(in Date : string) : Book[]
+searchByFormat(in Format : int) : Book[]
+searchByEdition(in Edition : float) : Book[]

Book

-m_Title : string
-m_Author : string
-m_ISBN : string
-m_ISBN-13 : string
-m_Genre : string
-m_DatePublished : string
-m_Format : int
-m_Edition : float

-setTitle()
-setAuthor()
-setISBN()
-setISBN-13()
-setGenre()
-setDatePublished()
-setFormat()
-setEdition()
+getTitle() : string
+getAuthor() : string
+getISBN() : string
+getISBN-13() : string
+getGenre() : string
+getDatePublished() : string
+getFormat() : int
+getEdition() : float

CheckOut

-m_runningTotal : double = 0
-m_booksToSell : Book[]
-m_currPayment : Payment
-m_currShipment : Shipment

+addBookToSale(in bookISBN : Book)
-updateRunningTotal()
-enterPaymentInfo(in runningTotal : double) : Payment
-enterShippingInfo() : Shipment
+validatePayment(in m_currPayment : Payment) : bool
-updateStoreInventory(in booksToRemove : Book[])
-printReceipt(in booksSold : Book[], in currentPayment : Payment, in currentShipment : Shipment)
+finishCheckOut()

Shipment

-m_shipToName
-m_shipToAddress
-m_shipType : int

-enterShipToName()
-enterShipToAddress()
-saveShipmentInfo(in *this : Shipment)
+getShipToName()
+getShipToAddress()
+getShipType()
-enterShipType()
-finishEnterShipmentInfo(in doneWithShipment : bool)

Payment

-m_paymentType : int = -1
-m_paymentAmount : double = runningTotal
-m_billToName : string
-m_billToAddress : string
-m_creditCardName : string
-m_creditCardAddress : string

-enterPaymentType()
+getPaymentType() : int
-updatePaymentAmount(in paymentAmount : double)
-enterBillToName()
-enterBillToAddress()
+getBillToName()
+getBillToAddress()
-savePaymentInfo(in *this : Payment)
-finishEnterPaymentInfo(in doneWithPayment : bool)

Search

+searchByGenre(in genre : string) : Book[]
+searchByAuthor(in authorName : string) : Book[]
+searchByISBN(in ISBN : string) : Book[]
+searchByISBN-13(in ISBN-13 : string) : Book[]
+searchByTitle(in Title : string) : Book[]
+searchByDate(in Date : string) : Book[]
+searchByFormat(in Format : int) : Book[]
+searchByEdition(in Edition : float) : Book[]

Book

-m_Title : string
-m_Author : string
-m_ISBN : string
-m_ISBN-13 : string
-m_Genre : string
-m_DatePublished : string
-m_Format : int
-m_Edition : float
-m_Reviews : BookReview[]
-m_Rating : float

-setTitle()
-setAuthor()
-setISBN()
-setISBN-13()
-setGenre()
-setDatePublished()
-setFormat()
-setEdition()
+getTitle() : string
+getAuthor() : string
+getISBN() : string
+getISBN-13() : string
+getGenre() : string
+getDatePublished() : string
+getFormat() : int
+getEdition() : float
+addReview(in reviewToAdd : BookReview)
+addRating(in ratingToAdd : float)

StoreInventory

-m_Inventory : Book[]

-addBooks(in booksToAdd : Book[])
-removeBooks(in booksToRemove : Book[])

WishList

-m_booksOnList : Book[]

+addBookToList(in toAdd : uint) : Book
+removeBookFromList(in toRemove : uint) : Book

BookReview

-m_Review : string
-m_ReviewAuthor : string

-setReviewText(in ReviewText : string)
-setReviewAuthor(in ReviewAuthor : string)
+getReviewText() : string
+getReviewAuthor() : string

PreOrderList

-m_booksOnList : Book[]

+addBookToList(in toAdd : uint) : Book
+removeBookFromList(in toRemove : uint) : Book

ShoppingCart

-m_Books : Book[]

+addToCart(in booksToAdd : Book[])
+removeFromCart(in booksToRemove : Book[])
+beginCheckOut(in booksToSell : Book[])
-checkCartValidity(in *this : ShoppingCart) : bool

Payment

-m_paymentType : int = -1
-m_paymentAmount : double = runningTotal
-m_billToName : string
-m_billToAddress : string
-m_creditCardName : string
-m_creditCardAddress : string

-enterPaymentType()
+getPaymentType() : int
-updatePaymentAmount(in paymentAmount : double)
-enterBillToName()
-enterBillToAddress()
+getBillToName()
+getBillToAddress()
-savePaymentInfo(in *this : Payment)
-finishEnterPaymentInfo(in doneWithPayment : bool)

Shipment

-m_shipToName
-m_shipToAddress
-m_shipType : int

-enterShipToName()
-enterShipToAddress()
-saveShipmentInfo(in *this : Shipment)
+getShipToName()
+getShipToAddress()
+getShipType()
-enterShipType()
-finishEnterShipmentInfo(in doneWithShipment : bool)

StoreInventory

-m_Inventory : Book[]

-addBooks(in booksToAdd : Book[])
-removeBooks(in booksToRemove : Book[])

Book

-m_Title : string
-m_Author : string
-m_ISBN : string
-m_ISBN-13 : string
-m_Genre : string
-m_DatePublished : string
-m_Format : int
-m_Edition : float
-m_Reviews : BookReview[]
-m_Rating : float

-setTitle()
-setAuthor()
-setISBN()
-setISBN-13()
-setGenre()
-setDatePublished()
-setFormat()
-setEdition()
+getTitle() : string
+getAuthor() : string
+getISBN() : string
+getISBN-13() : string
+getGenre() : string
+getDatePublished() : string
+getFormat() : int
+getEdition() : float
+addReview(in reviewToAdd : BookReview)
+addRating(in ratingToAdd : float)

CheckOut

-m_runningTotal : double = 0
-m_booksToSell : Book[]
-m_currPayment : Payment
-m_currShipment : Shipment

+addBookToSale(in bookToAdd : Book)
-updateRunningTotal()
-enterPaymentInfo() : Payment
-enterShippingInfo() : Shipment
+validatePayment(in m_currPayment : Payment) : bool
-updateStoreInventory(in booksToRemove : Book[])
-printReceipt(in booksSold : Book[], in currentPayment : Payment, in currentShipment : Shipment)
+finishCheckOut()

Search

+searchByGenre(in genre : string) : Book[]
+searchByAuthor(in authorName : string) : Book[]
+searchByISBN(in ISBN : string) : Book[]
+searchByISBN-13(in ISBN-13 : string) : Book[]
+searchByTitle(in Title : string) : Book[]
+searchByDate(in Date : string) : Book[]
+searchByFormat(in Format : int) : Book[]
+searchByEdition(in Edition : float) : Book[]
+addToWishList(in booksToAdd : Book[])
+addToPreOrderList(in booksToAdd : Book[])

ShoppingCart

-m_Books : Book[]

+addToCart(in booksToAdd : Book[])
+removeFromCart(in booksToRemove : Book[])
+beginCheckOut(in booksToSell : Book[])
-checkCartValidity(in *this : ShoppingCart) : bool

WishList

-m_booksOnList : Book[]

+addBookToList(in toAdd : uint) : Book
+removeBookFromList(in toRemove : uint) : Book

PreOrderList

-m_booksOnList : Book[]

+addBookToList(in toAdd : uint) : Book
+removeBookFromList(in toRemove : uint) : Book
+buyBooks(in booksToBuy : Book[])

BookReview

-m_Review : string
-m_ReviewAuthor : string

-setReviewText(in ReviewText : string)
-setReviewAuthor(in ReviewAuthor : string)
+getReviewText() : string
+getReviewAuthor() : string

-End24
-End20
-End14
-End21
-End23
-End13
-End22
-End19
-End25
-End18
-End27
-End9
-End7
-End8
-End17
-End3
-End4
-End10
-End28
-End26

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Payment
- -m_paymentType : int = -1
- -m_paymentAmount : double = runningTotal
- -m_billToName : string
- -m_billToAddress : string
- -m_creditCardName : string
- -m_creditCardAddress : string
- -enterPaymentType()
- +getPaymentType() : int
- -updatePaymentAmount(in paymentAmount : double)
- -enterBillToName()
- -enterBillToAddress()
- +getBillToName()
- +getBillToAddress()
- -savePaymentInfo(in *this : Payment)
- -finishEnterPaymentInfo(in doneWithPayment : bool)

Shipment
- -m_shipToName
- -m_shipToAddress
- -m_shipType : int
- -enterShipToName()
- -enterShipToAddress()
- -saveShipmentInfo(in *this : Shipment)
- +getShipToName()
- +getShipToAddress()
- +getShipType()
- -enterShipType()
- -finishEnterShipmentInfo(in doneWithShipment : bool)

StoreInventory
- -m_Inventory : Book[]
- -addBooks(in booksToAdd : Book[])
- -removeBooks(in booksToRemove : Book[])

CheckOut
- -m_runningTotal : double = 0
- -m_booksToSell : Book[]
- -m_currPayment : Payment
- -m_currShipment : Shipment
- +addBookToSale(in bookToAdd : Book)
- -updateRunningTotal()
- -enterPaymentInfo() : Payment
- -enterShippingInfo() : Shipment
- +validatePayment(in m_currPayment : Payment) : bool
- -updateStoreInventory(in booksToRemove : Book[])
- -printReceipt(in booksSold : Book[], in currentPayment : Payment, in currentShipment : Shipment)
- +finishCheckOut()

Book
- -m_Title : string
- -m_Author : string
- -m_ISBN : string
- -m_ISBN-13 : string
- -m_Genre : string
- -m_DatePublished : string
- -m_Format : int
- -m_Edition : float
- -m_Reviews : BookReview[]
- -m_Rating : float
- -setTitle()
- -setAuthor()
- -setISBN()
- -setISBN-13()
- -setGenre()
- -setDatePublished()
- -setFormat()
- -setEdition()
- +getTitle() : string
- +getAuthor() : string
- +getISBN() : string
- +getISBN-13() : string
- +getGenre() : string
- +getDatePublished() : string
- +getFormat() : int
- +getEdition() : float
- +addReview(in reviewToAdd : BookReview)
- +addRating(in ratingToAdd : float)

Search
- +searchByGenre(in genre : string) : Book[]
- +searchByAuthor(in authorName : string) : Book[]
- +searchByISBN(in ISBN : string) : Book[]
- +searchByISBN-13(in ISBN-13 : string) : Book[]
- +searchByTitle(in Title : string) : Book[]
- +searchByDate(in Date : string) : Book[]
- +searchByFormat(in Format : int) : Book[]
- +searchByEdition(in Edition : float) : Book[]
- +addToWishList(in booksToAdd : Book[])
- +addToPreOrderList(in booksToAdd : Book[])

ShoppingCart
- -m_Books : Book[]
- +addToCart(in booksToAdd : Book[])
- +removeFromCart(in booksToRemove : Book[])
- +beginCheckOut(in booksToSell : Book[])
- -checkCartValidity(in *this : ShoppingCart) : bool

WishList
- -m_booksOnList : Book[]
- +addBookToList(in toAdd : uint) : Book
- +removeBookFromList(in toRemove : uint) : Book

PreOrderList
- -m_booksOnList : Book[]
- +addBookToList(in toAdd : uint) : Book
- +removeBookFromList(in toRemove : uint) : Book
- +buyBooks(in booksToBuy : Book[])

BookReview
- -m_Review : string
- -m_ReviewAuthor : string
- -setReviewText(in ReviewText : string)
- -setReviewAuthor(in ReviewAuthor : string)
- +getReviewText() : string
- +getReviewAuthor() : string