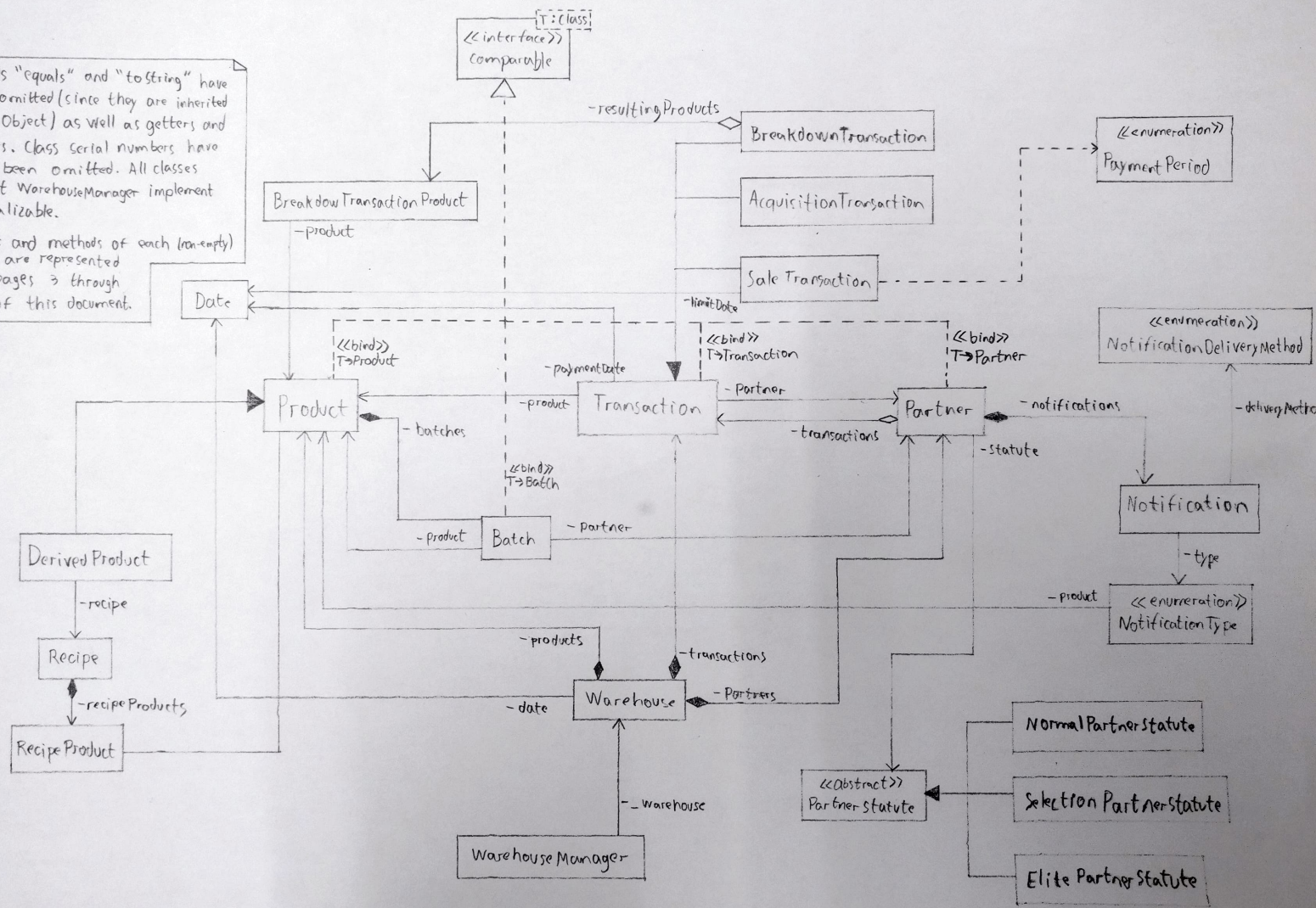


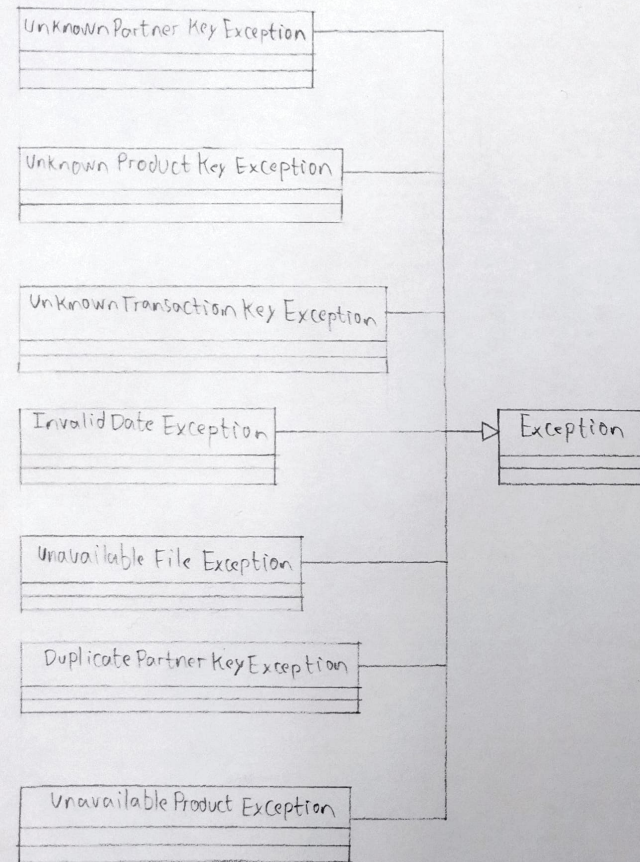
Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Diogo Correia - 157199211
 Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto. Rafael Silva e Oliveira - 157199311

Methods "equals" and "toString" have been omitted (since they are inherited from Object) as well as getters and setters. Class serial numbers have also been omitted. All classes except WarehouseManager implement Serializable.

Fields and methods of each (non-empty) class are represented on pages 3 through 6 of this document.



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Warehouse Manager

- filename: String

+ save(): void

+ saveAs(fileName: String): void

+ load(fileName: String): void

+ importFile(textFile: String): void

+ lookupPaymentsByPartner(partnerId: String): Transaction[]

+ lookupProductBatchesUnderGivenPrice(priceLimit: double): Batch[]

+ advanceDate(days: int): void

+ displayDate(): int

+ availableBalance(): double

+ accountingBalance(): double

+ registerPartner(id: String, name: String, address: String): void

+ getAllPartners(): Partner[]

+ getPartner(partnerId: String): Partner

+ getPartnerSalesOrBreakdowns(partnerId: String): Transaction[]

+ getPartnerAcquisitions(partnerId: String): Transaction[]

+ toggleProductNotifications(partnerId: String, productId: String): void

+ getAllProducts(): Product[]

+ getAllBatches(): Batch[]

+ getBatchesByPartner(partnerId: String): Batch[]

+ getBatchesByProduct(productId: String): Batch[]

+ receivePayment(transactionId: String): void

+ registerAcquisitionTransaction(partnerId: String, productId: String, price: double, quantity: int): void

+ createSimpleProduct(productId: String): void

+ createDerivedProduct(productId: String, aggravatingFactor: double, recipeProducts: String[], recipeQuantities: int[]): void

+ registerBreakdownTransaction(partnerId: String, productId: String, quantity: int): void

+ registerSaleTransaction(partnerId: String, deadline: int, productId: String, quantity: int): void

+ getTransaction(transactionId: String): Transaction

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| Warehouse |
|--|
| <ul style="list-style-type: none"> - availableBalance : double + lookupPaymentsByPartner(partnerId : String) : Transaction[] + lookupProductBatchesUnderGivenPrice(priceLimit : double) : Batch[] + advanceDate(days : int) : void + displayDate() : int + calculateAccountingBalance() : double + registerAcquisitionTransaction(partnerId : String, productId : String, price : double, quantity : int) : void + createSimpleProduct(productId : String) : void + createDerivedProduct(productId : String, aggravatingFactor : double, recipeProducts : String[], recipeQuantities : int[]) : void + registerBreakdownTransaction(partnerId : String, productId : String, quantity : int) : void + registerSaleTransaction(partnerId : String, deadline : int, productId : String, quantity : int) : void - getNextTransactionId() : int + getAllBatches() : Batch[] + getAllBatchesUnderGivenPrice(priceLimit : double) : Batch[] + registerPartner(id : String, name : String, address : String) : Partner + subscribeToAllProducts(partner : Partner) : void + getAllPartners() : Partner[] + getPartner(partnerId : String) : Partner + getPartnerSalesOrBreakdowns(partnerId : String) : Transaction[] + getPartnerAcquisitions(partnerId : String) : Transaction[] + toggleProductNotifications(partnerId : String, productId : String) : void + getAllProducts() : Product[] + getBatchesByPartnerKey(partnerId : String) : Batch[] + getBatchesByProductKey(productId : String) : Batch[] + receivePayment(transactionId : String) : void + getTransaction(transactionId : String) : Transaction |

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| Transaction |
|-----------------------|
| - id: int |
| - value: double |
| - quantity: double |
| + baseValue(): double |

| SaleTransaction |
|--|
| - adjustedValue: double |
| - paid: boolean |
| + isPaid(): boolean |
| + pay(): double |
| + calculateCurrentPaymentPeriod(): PaymentPeriod |

| BreakdownTransaction |
|--------------------------|
| - paidValue: double |
| + paymentValue(): double |

| AcquisitionTransaction |
|------------------------|
| + unitPrice(): double |

| Date |
|--------------------------------|
| - days: int |
| + advanceDate(days: int): void |
| + currentDate(): int |
| + dateDiff(other: Date): int |

| Product |
|--|
| - id: String |
| + getQuantityInBatches(): int |
| + getTotalQuantity(): int |
| + getBatchesForAcquisition(quantity: int): Batches[] |
| + getCheapestPrice(): int |
| + subscribe(partner: Partner): void |
| + unsubscribe(partner: Partner): void |
| + toggleSubscription(partner: Partner): void |
| + isSubscribed(partner: Partner): boolean |

| <<enumeration>> PaymentPeriod |
|----------------------------------|
| P1 |
| P2 |
| P3 |
| P4 |

| BreakdownTransactionProduct |
|-----------------------------|
| - <<final>> quantity: int |
| - <<final>> price: double |

| Notification |
|------------------------|
| - productPrice: double |

| <<enumeration>> NotificationDeliveryMethod |
|---|
| APP |

| RecipeProduct |
|-----------------|
| - quantity: int |

| <<enumeration>> NotificationType |
|-------------------------------------|
| NEW |
| BARGAIN |

| Batch |
|-----------------|
| - quantity: int |
| - price: double |

| Recipe |
|-----------------------------|
| - aggravatingFactor: double |

| Derived Product |
|--|
| + getTotalQuantity(): int |
| + getBuildableQuantity(): int |
| + getPriceForBreakdown(): double |
| + buildFromRecipe(quantity: int): void |

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 Grupo 4

Partner

- id: String
 - name: String
 - address: String
 - points: int

+ addTransaction(transaction: Transaction): void
 + readNotifications(method: NotificationDeliveryMethod): Notification[]
 + sendNotification(notification: Notification): void
 + getBidSales(): SaleTransaction[]
 + getSalesOrBreakdowns(): Transaction[]
 + getAcquisitions(): AcquisitionTransaction[]

Normal Partner State

+ applyStatuteRewards(transaction: SaleTransaction): void
 + applySanctions(transaction: SaleTransaction, points: int): int
 + getLowerState(): PartnerState
 + getUpperState(): PartnerState
 + shouldPromote(): boolean

<<abstract>>

Partner State

- name: String

+ <<abstract>> applyStatuteRewards(transaction: SaleTransaction): void
 + <<abstract>> applySanctions(transaction: SaleTransaction, points: int): int
 + <<abstract>> getLowerState(): PartnerState
 + <<abstract>> getUpperState(): PartnerState
 + <<abstract>> shouldPromote(): boolean

Selection Partner State

+ applyStatuteRewards(transaction: SaleTransaction): void
 + applySanctions(transaction: SaleTransaction, points: int): int
 + getLowerState(): PartnerState
 + getUpperState(): PartnerState
 + shouldPromote(): boolean

Elite Partner State

+ applyStatuteRewards(transaction: SaleTransaction): void
 + applySanctions(transaction: SaleTransaction, points: int): int
 + getLowerState(): PartnerState
 + getUpperState(): PartnerState
 + shouldPromote(): boolean