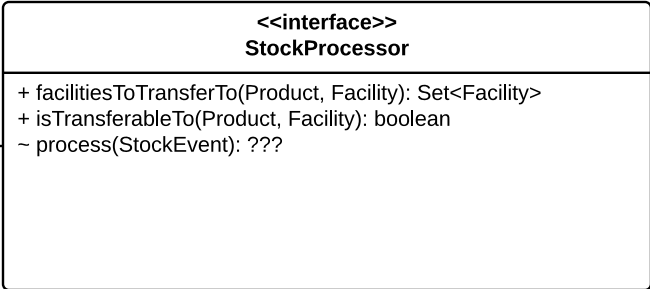
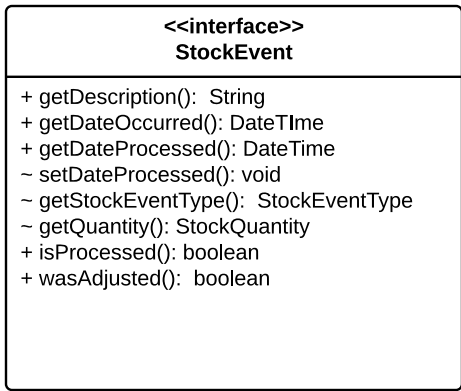
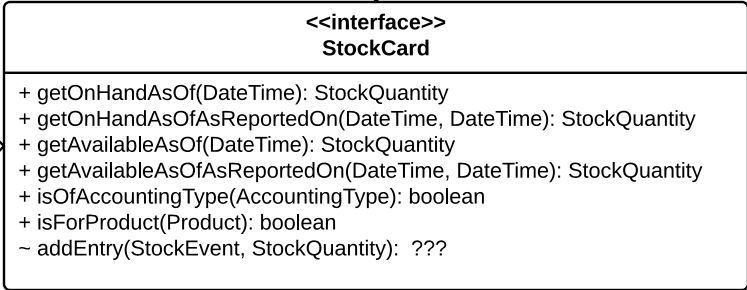
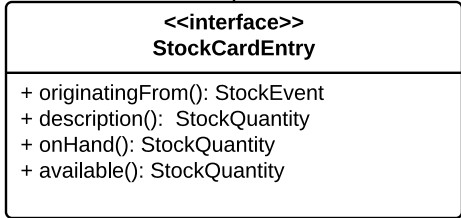


Stock Management CD Thoughts

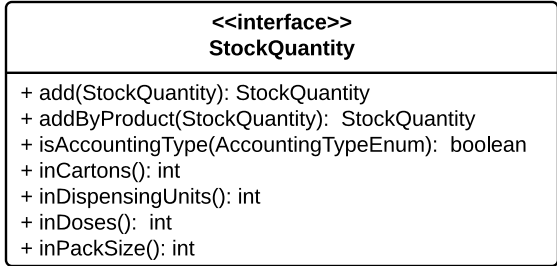
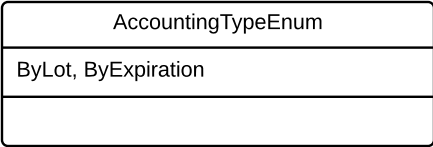


Processes

Add's entries



onHand() and available() is the result as of the date it occurred as reported on the date processed



- Would love to remove AccountingTypeEnum
- Need actual storage of lot/batch and expiration date

Recommended to be Immutable. add method enforces similar Product and accounting types, addByProduct method only enforces similar Product. "in" methods are helper methods, and show that accounting for stock is always in whole numbers.

SkeletonStockEvent	
<ul style="list-style-type: none"> • Knows date occurred • Knows date processed • Knows quantity and of a type/unit • Knows for who (1+) • Knows who did it • Knows why • Knows doc number and other misc details • Knows what's required and what's not • Builds event with required details 	<ul style="list-style-type: none"> • StockProcessor • Facility • Product • StockQuantity • StockCardEntry

StockEventType	
<ul style="list-style-type: none"> • Knows universe of event types that stock processor can process - e.g. credit or debit, transfer, balance adjustment 	

StockProcessor	
<ul style="list-style-type: none"> • Processes StockEvents to create corresponding accounting entries. e.g. on stock cards or even budgets for freight cost • Knows processing rules (e.g. where transfers can occur, who can adjust stock, if budgets are effected) 	<ul style="list-style-type: none"> • StockEvent • StockCard • Facility

StockQuantity	
<ul style="list-style-type: none"> • Knows Product • Knows StockAccountingType • Knows a quantity • Able to describe itself in other units based on Product information • Supports basic math operations with other compatible quantities • Knows if quantity is positive or negative - a positive or negative adjustment • Is Immutable 	<ul style="list-style-type: none"> • Product • StockAccountingType

StockAccountingType	
<ul style="list-style-type: none"> • Knows universe of types of stock accounts. e.g. my account is just quantities, or my account is quantities of a certain expiration date, or quantities of a certain lot/batch. 	

StockCard	
<ul style="list-style-type: none"> • Knows for Product • Knows for Facility • Knows StockCardEntry(s) that it's composed of • Knows the StockAccountingType that all StockCardEntry(s) will be • Knows on hand quantity and historical quantities • Knows available quantity and historical quantities • Can create new StockCardEntry 	<ul style="list-style-type: none"> • StockCardEntry • StockQuantity • Facility • Product

StockCardEntry	
<ul style="list-style-type: none"> • Knows the StockEvent it was created as a result of • Knows the StockCard it belongs to • Knows its StockQuantity • Is Immutable 	<ul style="list-style-type: none"> • StockCard • StockEvent