

California State University Fullerton

CPSC 462



Object Oriented Software Design Domain Model for the



High Velocity Sales Technology System

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Revision History:

Version	Date	Summary of Changes	Author
1.0	November 9, 2020	<ul style="list-style-type: none">Initial Release	Ryan McDonald Alexander Frederick Benjamin Baesu
1.1	December 7, 2020	<ul style="list-style-type: none">Updated Domain Model Diagram to remove software componentsAdded additional descriptions for major components to documentRemoved Software component descriptions	Ryan McDonald Alexander Frederick

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1 Domain's Major Concepts

1.1 Sales Ledger

Log of all sales and sales orders that have been processed.

1.2 Sale

A sale generated by a customer accessing our system. This is different from a sales order in that that is being generated by the customer rather than a sales representative. The payment for a sale is made at the time of sales generation.

1.3 Sales Order

A sale generated by a sales representative for a wholesale client. Payment is processed at a later date rather than at time of sales order generation.

1.4 In House Invoice

Invoice method done within company using either checks, money order, or wire transfers. Primarily used for payment of sales orders but could be used for payment of sales in event of payment authorization system failure.

1.5 Credit Card Payment

Payment for a sale or sales order that is done via credit card. Credit card authorization is done via a 3rd party system.

1.6 Customer Info

Information about customer including address, date of birth, billing information and payment information.

1.7 Customer List

Complete log of customers both wholesale and retail.

1.8 Inventory

Collection of products that are being sold within our system.

1.9 Item

Individual item within the inventory.

1.10 Item Description

Describes the item via item number, a brief description of the item, cost, and sizing information.

1.11 Sales Line Item

Used to describe the sale of an item within a sales order or a sale. Includes the number of the item purchased as well as cost and item information.

1.12 Data Sets

Overarching concept within domain that contains all information and lists regarding our stored information both about customers and product inventory.

1.13 Sales

Overarching portion of domain that contains all of the aspects of any transactions that are processed that generate profit for company.

1.14 Purchase

A purchase is how a user pays for a sale or a sales order that has been made. Purchases can be fulfilled via two means of payment. The first and primary means of payment is a credit card payment. The credit card payment would connect to an external system in order to verify successful payment. The second method would be an in-house invoice. This invoice could be fulfilled via either a money order, wire-transfer, or cashier's cheque in the event the primary payment services are not available.

2 Domain Model Diagram

