Specifications

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| Action | Process |
| 1. Adding Clients | Receive application from a client, the worker will be prompted to enter the request they are performing. The worker will enter 1 when prompted by the system fill the data fields for a client. The system will produce a unique client ID and display it to the worker, as well as store the data in the system. |
| 1. Adding Products | A new product will be stored in the warehouse; the worker will enter 2 in order to enter the process to add a product. The system will request information on the product: manufacturer, cost, specifications, initial quantity, etc. when the worker has entered all the data the system will save the data as well as return a unique product ID of the new item. |
| 1. Adding manufacturers | A product has been created that we wish to add however the manufacturer does not have any products with the warehouse currently. The worker will enter 3 to add a manufacturer, the system will ask for the manufacturers name then save the name with a manufacturer ID that is unique. |
| 1. Adding a manufacturer for a product | Press 4 to add a manufacturer an already existing product. Enter the manufacturer ID followed by the Product ID, the system will ask for that manufacturers price, which the worker will enter. Then the manufacturer is added to the list of manufacturers for that product. |
| 1. Deleting a manufacturer for a product | Press 5 to delete a manufacturer from an existing product. The system will ask for the manufacturers ID followed by the product ID, there will then be a confirmation message that is displayed. The user will enter y/n, if y the manufacturer is removed; if n there is no action. |
| 1. List all transactions for a client. | Worker wishes to view all transactions for a client, worker enters 6. System asks for a client ID. When the ID is entered the system displays the transactions for that client. |
| 1. For a given product, list all manufacturers and their price. | Worker wishes to know who manufactures a given product and the price they charge. Worker enters 7. The system asks for a product ID, when entered the system displays a list of all manufactures for that ID and their prices. |
| 1. List of clients whom are on back order. | The worker wishes to see which clients that have order that have been placed on back order. The worker enters 8. The system displays all client IDs currently on back order. |
| 1. List all manufacturer orders not yet received. | The worker wishes to see the orders that the warehouse has placed with the manufacturers that have not yet been delivered. The worker presses 9. The system displays all orders not yet received. |
| 1. Accept an order from a customer. | A client gives an order to a worker that has a set of products and an associated quantity for each one. The worker submits the order, and the transaction is recorded. If the order can be fulfilled in full, do so. If not, fulfill what is possible and place the remaining items on backorder. |
| 1. Place an order with the manufacture | The clerk provides details of the item including manufacture name, productId, OrderId and quantity. Then clerk then places the order with the manufacture. The whole transaction including the date and time of the order placement is recorded in the system. |
| 1. Accept payment from the customer | The clerk checks the payment due and asks the customer to pay the due balance. After customer pays the due amount, the clerk enters it in the system along with the details of method of payment. The whole transactions including paid amount, payment method and date and time of payment is recorded in the system. |
| 1. Receive Shipment | The Warehouse receives a shipment from a supplier. Warehouse manager enters the products into the system. The system checks if any of those items are on the waitlist. If so, the manager has the opportunity to fulfill those requests. After doing so, the remaining products are added to the inventory. |

Adding a client.

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| 1. Receive application from a client |  |
| 1. Worker enters 1 to the system |  |
|  | 1. System asks for information on the client: name, address, etc. |
| 1. The worker fills out the requested data fields |  |
|  | 1. The system saves the data entered by the worker and generates a new unique id for that client. |

Adding a new product.

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| 1. Receive a new product to carry |  |
| 1. Worker enters 2 to the system |  |
|  | 1. The system will ask for information regarding the product: manufacturer, price, specs, etc. |
| 1. The worker fills out the requested data fields |  |
|  | 1. The system saves the data entered by the worker and generates a new unique id for the product. |

Adding a manufacturer.

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| 1. Find a new manufacturer |  |
| 1. Worker enters 3 to the system |  |
|  | 1. The system will ask for the manufacturer name |
| 1. The worker enters the name of the manufacturer |  |
|  | 1. Systems saves the manufacturer to the system and generates a new unique id for the manufacturer |

Adding a manufacturer for an existing product.

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| 1. An already existing manufacturer starts supplying a product already in the system. |  |
| 1. Worker enters 4 to the system |  |
|  | 1. System asks for manufacturers ID |
| 1. Worker enters manufacturer ID |  |
|  | 1. System asks for product ID |
| 1. Worker enters product ID |  |
|  | 1. System asks for the cost of that manufacturer’s product. |
| 1. Worker enters cost |  |
|  | 1. System adds the manufacturer to the list of suppliers at the price entered. |

Deleting a manufacturer for an existing product.

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| 1. An already existing manufacturer removes supply of a product. |  |
| 1. Worker enters 5 to the system |  |
|  | 1. System asks for manufacturers ID |
| 1. Worker enters manufacturer ID |  |
|  | 1. System asks for product ID |
| 1. Worker enters product ID |  |
|  | 1. System asks for conformation |
| 1. Worker enters y/n |  |
|  | 1. On y system removes the manufacturer from the list of suppliers. On n the system returns to the menu screen having done nothing. |

Query about a clients transactions.

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| 1. Worker enters 6 to the system |  |
|  | 1. The system asks for the client ID |
| 1. The worker enters the client ID |  |
|  | 1. The system displays the client’s transactions. |

Query about prices and manufacturers for a product.

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| 1. Worker enters 7 |  |
|  | 1. The system asks for the product ID |
| 1. The worker enters the product ID |  |
|  | 1. The system displays the manufactures and prices for the given product ID |

List of all clients who have an item on back order.

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| 1. The worker enters 8. |  |
|  | 1. The system displays all client IDs that have an order that is on back order. |

List of all shipments the warehouse placed that have yet to arrive.

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| 1. The worker enters 9. |  |
|  | 1. The system displays all the orders the warehouse placed that have not arrived yet. |

Accept an order from a customer

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| 1. Worker receives an order from a client (customer) 2. Worker presses the “place order” button on the system |  |
|  | 1. The system asks for the client ID |
| 1. The worker enters the client ID |  |
|  | 1. The system asks for details of the order (list of products and number of each one) |
| 1. The worker enters the items and quantity of each item |  |
|  | 1. The system checks product availability and determines if the order can be fulfilled. If it can be fulfilled, subtract quantity from inventory and send a packing list to the warehouse floor.   If the request is unable to be fulfilled, subtract remaining balance from inventory, send request to the warehouse floor to be packed, and place remainder of order on backorder.  Display results of the order to the worker. |

Place an order with a manufacture

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| 1. The clerk initiates the system to place an order |  |
|  | 1. The system ask for order details |
| 1. The clerk enters product details which include manufacture name, productId, orderId and quantity. |  |
|  | 1. The system then checks the order and make sure that the order placed is the right one. If the order placed is right one then the system provides again provides the details including the price to the clerk to finalize the order |
| 1. The clerk finalized the order and place the order |  |
|  | 1. The system accept the order and records the transactions |
| 1. Clerk exit the system |  |

Accept payment from a customer

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| 1. The clerk initiates system to accept payment from the customer. |  |
|  | 1. The system ask for details |
| 1. The clerk enters the customer id and order id |  |
|  | 1. The system checks the order and shows the order detail with amount due to the clerk |
| 1. The clerk enters the amount received from the customer and the method of payment |  |
|  | 1. The system deducts the amount paid from the due amount and shows the remaining balance to the clerk. |
| 1. The clerk checks the receipt and finalize the payment |  |
|  | 1. The system records the transactions |
| 1. The clerk exits the system. |  |

Receive Shipment

Receive Shipment

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| Actions performed by the actor | Responses from the system |
| 1. Shipment is received from a supplier. |  |
| 1. Warehouse manager submits a request to update products in the system. |  |
|  | 1. System prompts the manager to enter product ID of a received item. |
| 1. Warehouse manager enters product ID. |  |
|  | 1. The system displays the next order that matches this ID (displaying the manufacturer name, product name, quantity, and orderID) and asks user if this order matches the item received. If there are no more orders, error message is display and control shifts to step 10. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If No, control shifts to step 5. If Yes, system prompts user to enter the quantity of the item received. |
| 1. Warehouse manager enters the quantity. |  |
|  | 1. If the quantity entered by the user is less than or equal to the quantity remaining on the order, the item is updated. Otherwise, an error message is displayed, the systems prompts the user to enter a quantity again, and control shifts to step 8. |
|  | 1. System prompts if there are more items to be added. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If Yes, control shifts to step 3. If No, System checks to see if any items are waitlisted. All items received that are on a waitlist are added to a waitlist queue. |
|  | 1. If the waitlist queue is not empty, display the next item. Prompt user to fulfill the order. Ask the user if the order was fulfilled. If waitlist queue is empty, control shifts to step 16. |
| 1. Warehouse manager enters Yes or No. |  |
|  | 1. If Yes, the quantity of the item is decremented.   Control shifts to step 13. |
|  | 1. All remaining items are added to the warehouse inventory. |