**Justification for Software Classes**

1.) Database System: The database system is necessary for the user to interact with the system. It will hold different use case options. It will also keep track of all of the clients, invoices, shipments, and the inventory. It acts as the façade separating the user from the data objects

2.) Client list: Used to keep a running list of all the clients that the system will interact with.

3.) Client: Client keeps track of all the information about a particular person, namely their name, address, transaction history and their wish list.

4.) Transaction History: Used to maintain a list of all the transactions that a client has made.

5.) Wishlist: It is necessary to keep a list of the products that a client is thinking about purchasing, it is also used to make invoices.

6.) Invoice History: Keeps a running list of all the invoices that have been made so the system can access them. It also generates an invoice.

7.) Invoice: The invoice is the list of products purchased by a customer and their price.

8.) Inventory: Maintains a list of all the products available to be purchased by the client. It also holds one waitlist for orders that can’t be fulfilled yet.

9.) Waitlist: The waitlist maintains a list of orders that can’t be fulfilled yet because there aren’t enough products in stock.

10.) Product: An induvial item that can be purchased by the client. This class provides the quantity, in stock and the price for each product.

11.) Shipment History: This class keeps track of incoming shipments and shipments yet to be received. This class also provides a balance for the warehouse so when a shipment is received the cost of that shipment is noted.

12.) Shipment: A bulk restock order of a particular product to be added to the inventory.

**Justification for Dropped Conceptual Classes**

Order: The order class isn’t necessary because its purpose is dealt with using the invoice and transaction history classes.

Payment: The payment class isn’t necessary because its purpose is dealt with using the invoice and transaction history classes.

