

## CSc 322 Software Engineering Lab

Spring 2016

### **A product ordering system for a warehouse**

This project could be done entirely as a web application or local system. You are neither required nor encouraged to develop a web or mobile system. You are free to make your own choice for cases/situations/features that are not described in this requirement list.

Users of this system with different authorities:

1. Client – owners who buy products from salespeople. They can rate salespeople they purchased products. And they are also rated by salespeople who sold products to them. Clients and salespeople can file complaints against each in the system. Any clients complained twice are put in the blacklist and can never log in to the system. A salesperson complained twice will receive only 90% commissions. The salespeople who were complained 9 times in total are suspended until the manager decides otherwise. They can also press “like” or “dislike” to each other. The clients receiving 3 likes/dislikes will receive 5% discount and 5% price increase, respectively; the salespeople netting every 3 likes/dislikes will receive 5% more/less commissions. Clients and salespeople who pushes “like/dislike” for more than 9 times in a row will be punished with money amount more than s/he received. (Which means the history of every user’s “like/dislike” should be remembered in the system.
2. Salesperson - the person who visits the supermarkets and delis around the city and places orders that go to the warehouse. The salesperson has a small percentage of discount to make the sale and receives a percentage of commissions as defined by the supervisor
3. Manager - the person who controls payments and the sales history of the salespeople that are under its responsibility. The supervisor also makes a larger promotion available or authorizes changes in the prices of the items. The supervisor can change the percentage of the commissions of, and fire and hire the salespeople in the same group. Managers can blacklist a client if something is wrong with the payments.
4. Director - the person determines if an item is available to be seen in the app and the amount of cases available. The director can promote salespeople to managers and demote managers to salespeople. The director decides to place more orders of products or stop order any more products based on the sales statistics.

System requirements:

1. Different users should have different personalized page when s/he logs in. For instance, a new client will only see the best 3 selling products all through the warehouse; if s/he just purchased certain products then s/he will see top 3 best-selling products of the that type. For managers the best and worst salespeople's name of their managed groups are shown. The director will see the best and worst performing groups of the entire warehouse.
2. Clients and salespeople can only see their own transactions and statistics; managers can see the salespeople and clients of their groups. The director can see everything.
3. The warehouse inventory is initialized/added by the director, and the system updates it automatically after every transactions. It cannot be negative.
4. All users can search for the clients/salespeople with the worst/best ratings.
5. One creative features (10%) of your own choosing to render this system smarter and/or more appealing to its users.