Requirement specification

Items that are placed inside [...] should NOT be included in the application. Items placed within {...} can be included at will, but they are not necessary.

Functional requirements

The system should provide functionality that allows *all customers* to:

1. See available items (open menu)
2. Order drinks
   a. Single order
   b. Group order
      i. Group bill
      ii. {Split bill}
3. {Order food}
4. Change order
5. Pay at bar, or to bartender/waiter/waitress at table
   .   {See 2.b.ii - splitting the bill}

VIP customers should also be able to:
6.   Log in (at table)
7.   Log out
8.   See account balance (at table)
9.   Order and Pay from account (at table)
10.   Fetch special beer/drink from fridge or bar (with combination lock)
11.   Add to account (at bar)

Bartender, Waiter and Waitress should be able to:
12.   Log in
13.   Log out
14.   See availability of product (General req)
a.   Remove product (temporarily) from menu
15.   Modify/Calculate price of product
16.   Offer product on the house
.   Balancing the income/expenses
a.   Update number in stock
17.   Notify security of problem
18.   Get order for certain table
.   Change items on order
a.   {Allow for splitting the bill}
19.   {Reserve table for group at time}
.   {Reserve}
a.   {Remove reservation}
b.   {Print reservation note}

Manager/Owner needs to be able to:
20.   Manage stock
a.   Revise amounts
b.   Order refill of items
c.   Add/remove items from menu

21.   [Manage prices.]
22.   [Do accounting.]

General requirements
23.   We need to be able to find products according to content
a.   Allergies - Gluten, Nuts, Lactose etc.
b.   Alcohol content
c.   Tannins (for wine)

Non-functional requirements

24.   An order can consist of up to ten items at the same time
25.   The bartender should immediately be notified when an item is running low (27.a)
a.   A warning should be given when there are less than five items left of a certain type
26.   The security notification should be accessible within three seconds (17)

Additional details

27.   The interface must connect to the thematic background of the Pub
28.   Drinks should be listed with the following details:
a.   Beers
  i.Name
 ii.Producer/Brewery
iii.Country
iv.Type (IPA, lager
 v.Strength
 vi.Serving size (tap, bottle)
vii.Price
b.   Wine
 .Name
 i.Year
 ii.Producer
iii.Type
iv.Grape
 v.Serving size (glass, bottle)
c.   Cocktails/Drinks
 .Name
 i.Strength
 ii.Contents/Recipe (for allergy purposes)
iii.Serving size
29.   For the bartender and manager, the number of remaining servings should also be shown
.   It should be easy to see when an item is low in number

Notes

N1. There should be one 9"-10" touch-screen at each table, and a large screen at the bar.

Course based requirements

1. The system should be implemented using MVC
2. The system should provide three distinct interface languages
3. The system should implement Drag and Drop *for a suitable action*
4. The system should implement an UNDO/REDO functionality
5. The system should be possible to resize between the bartender view (27") to table tablet (9"-10")
6. The system should be reasonably debugged
7. The code needs to be correctly documented
8. **In order to pass the course you only need to be able to show that the system can run on one platform, on one browser.**