

Group 1:
Mary Omoyele
Evan Bates
Taylor Condrack
Sho Fujiwara
Jason Hoang
Samuel McGregor
Abiral Pandey
CSCE 4444.001
Dr. Renée Bryce
11 November 2015
Group Project – Part 4 – Class Diagrams

Class Diagrams

We will first explain what each class represents and how it is used in our system. Then, we will provide a full class diagram of our entire class project. This will showcase what the different classes have access to and the overall structure of our database. See page three for a visual representation of the class diagram.

Customers

When a customer creates an account and logs in, our system automatically generates an order and assigns them to a table (optionally, the customer can place a takeout order from any table they choose). The customer class can access the following classes and all or their variables: menu item, table, order, and coupons.

Coupons

The coupon class cannot exist without the customer class. It can only be accessed from the customer class too.

Table

The table class is accessible from the customer, wait staff, and order class only. It contains the user's id, the table's status, and a pointer to the customers' order.

Order

An order instance is generated when a customer is logged in and contains a pointer to a list of the user's ordered items. It is accessible from the customer, wait staff, and manager (from Employee) classes.

YourOrder

After an order is generated and a user starts adding items to their order, a "YourOrder" class is generated. This class contains a list of all current items being ordered by the customers. It's accessible by the customer, manager (from Employee class), and wait staff only.

MenuItem

A menu item exists without any other class. It is just a database of menu items and conditionals for each item. The customer, wait staff, and employee class can all access menu items. However, only the employee class can change menu item variables.

WaitStaff

Wait staff can exist on its own. I can access the following classes and change their variables: customer, comps, your order, order, and table. Wait staff have read only access to the menu items class.

Comps

Only the manager (from Employees class) and wait staff can access and modify the comps class. It's just a list of items that were compensated and why they were compensated.

Employees

The employee class contains, for now, two employees: manager and kitchen. The manager employee has read and write access to the following classes: order, your order, waitstaff, comps, menu items. The kitchen employee has read and write access to the following classes: order, menuitems, and your order.

