

Classes

1. Restaurant: This class instantiates all employees, DB, menu, menuitems and orders.
2. DB: This class contains the data base on which statistic reports are created. Contains information about restaurant's population and ordering habits.
3. Post Employee: This is an abstract class that is implemented by the post employees of the restaurant: the Cook, the Bartender and the Confectioner. Following functions must be implemented:
 - a. prepare() - make desired item.
 - b. notifyDone() - let waiter know item is ready.
 - c. updateMenuItem() - update static variable of a menu item that it is currently available / unavailable.
4. Cook (extends Post Employee): The cook handles all main dishes. The cook's functionality is described under Post Employee.
5. Bartender (extends Post Employee): The Bartender handles drinks. The bartender's functionality is described under Post Employee.
6. Confectioner (extends Post Employee): The confectioner handles deserts. The confectioner's functionality is described under Post Employee.
7. Manager: The manager class has superior privileges and also can perform operations on the DB.
8. Waiter: The Waiter class handles interaction with diners. The Waiter is also responsible of sending and receiving messages from the different Post Employees.
9. Menu Item: The menu Item class contains an instance of an ordered item. It holds preparation status, specific variations of the item and availability status per variation or the general availability of the item.
10. Menu: The Menu class holds all the possible menu Items that can be ordered.
11. Meal: The Meal class includes identifying information about an order. Also holds all the menu items ordered, and the check (bill) status. Payments and receipts are issued done through this class.
12. Report: The Report Class manages the reporting from main DB. Accessible by Manager alone, this class generates statistical reports upon request.