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organize the document using the sections described in the project description.

Milestone

Currently I have classes of Item, Menu, and the Main class named Waiter. All of these work together to give the user which items they are able to choose from and display the prices of each one. I have made the UML for each one but they may need to have more included as I feel that I am not currently finished with them fully. I shall talk about what each class will have in them, so far, and how they will interact with each other.

My motivation to making this program was due to the up and coming apps integrated with restaurants that customers are able to use when they want to order food. The customers are able to use an app and order whatever food they want from that restaurant, they then pay with their card and the system will give a time of when their food will be ready. Using this app would benefit the customers because they can make sure they are ordering the right food and they wouldn't have to deal with calling the restaurant and having to make sure that their order is all correct over the phone.

This system will be an application where a user will be able to order food from a restaurant and by the time they arrive, their food will be ready. They will have many options to choose from for their food including appetizers, entrees, sandwiches and burgers, breakfast sides, and drinks. The user will only be using the class called Waiter. When the program is started, they will go through a list of what they are able to buy, how big the item is, and what the price is that they would have to pay. That main class will call other classes depending on what is called to be used.

In the Item class, we have fields for the double price, string name, string category, and string size. The constructor contains Item(String name, String category, double price, String size). For the getters and setters, we have the price, name,

category, and size. This class also contains a toString method where it will display the name and price of the item along with the size if it contains one.

In the Menu class, it contains the fields of the array list for all the item categories on the Item class. This contains appetizers, sandwichesANDburgers, breakfast, entrees, sides, and drinks. For each item category there is a getter and a getter for the size of the item.

You could create subclasses of this for the different type of items, e.g. Breakfast, Lunch, Dinner and then use interfaces for the other ones, e.g. Entree, Side, etc.

Item
Double: price String: name String: category String: size
Item(String: name, String: category, double: price, String: size) getPrice: double setPrice(double price): void getName: String setName(String name): void getCategory: string setCategory(string: category): void getSize: String setSize(String: size): void toSring: string

Menu
ArrayList<Item> appetizers ArrayList<Item> sandwichesANDburgers ArrayList<Item> breakfast ArrayList<Item> entrees ArrayList<Item> sides ArrayList<Item> drinks
Menu() populateMenu(): void getAppetizer(int: index) getAppetizerSize(): int

Today, many restaurants are getting on the trend of having their customers order online what they would like to have and are able to pick up their food without having to call to order. Online ordering has grown over 16% in the last year. Over calling, orders are more accurate than ever since the restaurant knows exactly what the customers are trying to order. There are minimal complaints with this online ordering, the usage has been increasing every month and both the customer and the restaurant don't have to deal with complicated ordering processes anymore. The only downside of online ordering would have to be the constant upkeep of the app. They have to make sure that everything is running smoothly so that customers are able to use the online ordering to its full potential.

The system will be used by the main class, Waiter, when the program is started. The user will be be greeted with some messages saying "Welcome to our restaurant" and will then list all the available menu items a guest may choose from. They will able to type out what they want, one at a time, and will add it to their bill. Finally they will say done when they are finished and their total will b displaced. They put their credit/debit card number into the system and if approved they will be able to continue. They they will be told how long the food will take and that they should plan their time accordingly.

While my ordering program still has much to cover, in the end, people will be able to use this program to be able to order food from any restaurant who would want to adapt this program. The program still needs one more class named the register to be able to calculate how much the customer will have to pay and too also get the credit card information.

Bibliography

Tory. “What Are the Benefits of Online Ordering?” *QSR Magazine*, 7 Jan. 2019, www.qsrmagazine.com/business-advice/what-are-benefits-online-ordering.