Team 8 - Food Court Management System

Vaasav Kumar, Taylor Milton-Baker, Tran Tran, Chan Hyun Kim, Umair Ali
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Food Court Management System
- Food court
- Combination of multiple vendors
- Customer decides based on a unique ID
  - Will be added to the shopping cart
  - Must account for each specific vendor for the request
    - Log in (can the vendor fulfill the request?)
  - Customer:
    - Notification regarding if order has been processed or denied as well as display the time
- Customer makes a payment regarding order
  - Ensure wallet balance for each customer
- Reporting system
  - For each week, how many orders have been processed?
-
==
[customer login]
[vendor login]
- Show Menu
- Buy Item (place order)
- Vendor Approval
- If approved, confirm order
- Employee balance deducted/adjusted
==
- Functionalities (10-12)
  - Scanner() - import.util.Scanner
  - Arrays/indexing (List <Menu>)
  - Collections
  - Comparator
  - HashMap
  - Boolean function
  - Try/catch - error detection
  - Next()/nextLine()
  - File I/O - create file/modifying files for menu

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- Classes Needed
  - Customer Login
    - Customer Attributes
      - Customer ID
      - Customer name
      - Customer username
      - Customer Password
      - Customer Balance
      - Wallet Class(Unique for each customer)
        - Add/Deduct balance
    - Home screen displays customer login (username, password, forgot password, login/logout button)
    - Create account
  - Vendor Login
    - Vendor Attributes
      - Vendor Id
      - Vendor Name
      - Vendor Username
      - Vendor Password
      - Menu ID
    - Will be able to identify customer's order
    - Approve/confirm/cancel order
    - Vendor account logins
    - Will be able to retrieve and display a file to be used as the menu
  - Menu
    - Menu Attributes
      - Food ID
      - Vendor ID
      - Food Name
      - Food Price
      - Food Category
    - Displays certain information on each food/meal offered, the user will be able to select whatever they want
    - Read from a text file that the vendor can easily modify and import to program
    - SOLD OUT functionality
  - Order
    - Order Attributes
      - Order Id
      - Food ID
      - Customer ID
      - Order Status

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- Order Balance
- Approved/confirmed status
- Canceling orders
- Create order history/report (generated every month/week)
- Cart system (multiple carts and check out)
  - CustomerBalance
    - Customer Attributes
      - Customer ID
      - Customer Balance
    - List of Customer
    - Display customer's balance
    - Adjust balances
    - Low balance warning
      - Add/Deduct balance
      - Customer Balance after the change

===
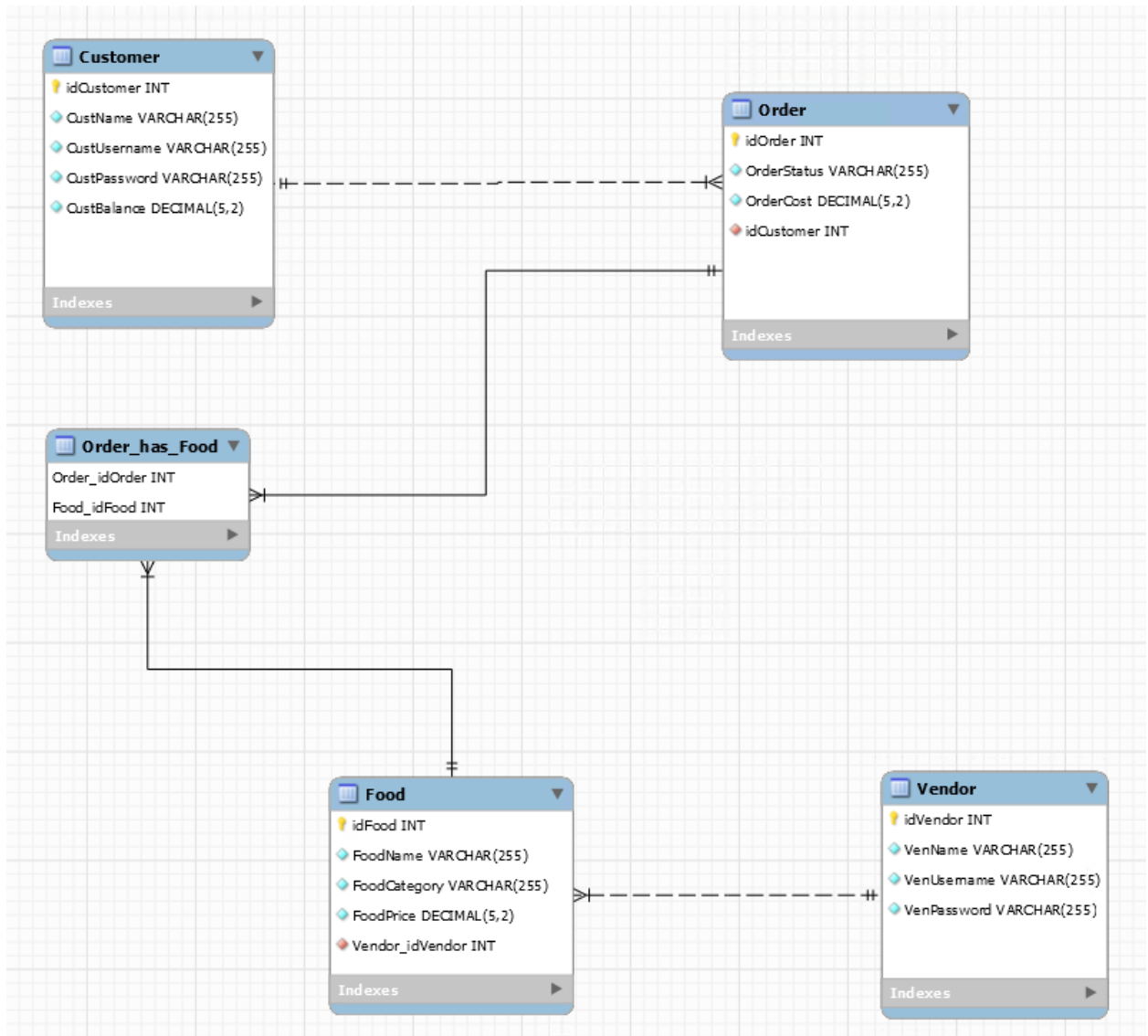- Work Distribution:
  - Vaasav: SQL Functionalities, Vendor Class
  - Umair: Customer login page.
  - Tran: Implement menu class functionalities
  - Chan: CustomerBalance
  - Taylor: Vendor Login page and functionalities

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ER Diagram:

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Output Screen Shots:

Case 1:

```
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
1
Enter your Username
test
Enter your password
test
Customer Menu
Press 1 to View Account details
Press 0 to Log Out
1
Enter Customer's ID
1
[customer [id=1, custName=James, userName=jmes20, Password=PhU72H9%1, custBalance=104.68]]
Customer Menu
Press 1 to View Account details
Press 0 to Log Out
0
Logging out...Have a nice day
```

Case 2:

```
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
2
Enter your Username
test
Enter your password
test
Vendor Menu
Press 1 to View Customer order
Press 2 to Accept or Decline Customer orders
Press 3 to Change Menu
Press 0 to Log Out
```

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Case 3:

```
Logging out...Have a nice day
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
3
|
                Select a food item from the following list

Menu:

        Item Description
        ==================================
         Pizza   ( 8.99)
         Butter Chicken ( 13.99)
         Spring Rolls   ( 11.99)
         General Tso's Chicken  ( 17.99)
         Casear Salad   ( 12.99)
         Spaghetti      ( 24.99)
         Corn Dogs      ( 16.99)
         Ramen Noodles  ( 45.99)
         Cajun French Fries     ( 4.99)
         Chicken Nuggets        ( 9.99)
```

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Case 4:

```
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
4
Enter Customer name
Showcase
Enter Customer Username
showcase
Enter Customer Password
showcase
Enter Customer initial balance
100
New customer has been Added!
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
```

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Case 5:

```
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
5
Enter Customer name
showcase
Enter Customer Username
showcase
Enter Customer Password
showcase
New Vendor has been added!
Food Court Managment System
Press 1 for Customer login
Press 2 for Vendor Login
Press 3 to show the menu
Press 4 to create Customer login
Press 5 to Create Vendor login
Press 0 to exit the System
```