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| Class: <Restaurant> | |
| **Responsibilities** | **Collaborators** |
| Publish Menu  Manage orders  Manage delivery options | Collaborates with Menu class to provide the menu to customers.  Collaborates with Order class to manage and process orders.  DeliveryPerson class  Payment class |
| Handle payments | Collaborates with DeliveryPerson class for assigning delivery persons. |
|  | Collaborates with Payment class for handling payments. |
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| Class: <Menu> | |
| **Responsibilities** | **Collaborators** |
| Maintain a list of available dishes and their details  Add, update, or remove dishes from the menu | Collaborates with Restaurant class to receive the menu details. |
| Provide information about the menu to customers | Collaborates with Customer class to provide menu information. |

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| Class: <Dish> | |
| **Responsibilities** | **Collaborators** |
| Store information about a specific dish (e.g., name, description, price) | Collaborates with Menu class for adding, updating, or removing dishes. |
| Handle dish-related operations (e.g., calculate total cost, check availability) | Collaborates with Order class for calculating the total cost of dishes. |

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| Class: <Order> | |
| **Responsibilities** | **Collaborators** |
| Maintain a list of dishes ordered by a customer  Calculate the total cost  of the order  Handle order-related operations (e.g., add/remove dishes, update quantities) | Collaborates with Customer class to receive customer's order details.  Collaborates with DeliveryPerson class for updating delivery status.  Collaborates with Dish class for calculating the total cost. |
|  | Collaborates with Restaurant class for updating order status and processing payments. |

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| Class: <Customer> | |
| **Responsibilities** | **Collaborators** |
| Create and manage customer accounts  Store favorite dishes from different restaurants | Collaborates with Account class for managing customer accounts.  Collaborates with Restaurant class to browse menus and place orders. |
| Place orders  Track order status and delivery | Collaborates with Order class for tracking order status and delivery updates.  Collaborates with Notification class for receiving notifications. |

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| Class: <DeliveryPerson> | |
| **Responsibilities** | **Collaborators** |
| Manage delivery requests and assignments  Track delivery status and location | Collaborates with Order class for receiving delivery assignments and updating order status.  Collaborates with Address class for managing delivery addresses. |
| Update order status upon delivery completion | Collaborates with Notification class for sending delivery-related notifications. |

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| Class: <Account> | |
| **Responsibilities** | **Collaborators** |
| Store customer account information (e.g., username, password, contact details)  Handle authentication and authorization for customers | Collaborates with Customer class to manage customer account information.  Collaborates with Notification class for sending account-related notifications. |
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| Class: <Payment> | |
| **Responsibilities** | **Collaborators** |
| Process payment transactions  Validate payment details | Collaborates with Order class for processing payment transactions.  Collaborates with Customer class for validating payment details. |
| Generate payment receipts | Collaborates with Notification class for sending payment-related notifications. |

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| Class: <Address> | |
| **Responsibilities** | **Collaborators** |
| Store and manage delivery addresses  Handle address-related operations (e.g., validate address, calculate distance) | Collaborates with DeliveryPerson class for managing delivery addresses.  Collaborates with Restaurant class for validating delivery addresses. |
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| Class: <Notification> | |
| **Responsibilities** | **Collaborators** |
| Send notifications to customers, restaurants, and delivery persons  Handle notification preferences and channels | Collaborates with Customer class for sending order and account-related notifications  Collaborates with Restaurant class for sending menu and order-related notifications |
|  | Collaborates with DeliveryPerson class for sending delivery-related notifications.  Collaborates with Payment class for sending payment-related notifications. |