



1. **Product**: Represents any item in the pharmacy, such as medicine or other products. It stores the product's details, price, quantity, and expiry information.
2. **Drug (extends Product)**: Represents medical drugs that may require a prescription. Inherits all features from Product and adds a dosage property.
3. **Other Item (extends Product)**: Represents non-medical products like cosmetics or health accessories. Inherits all features from Product.
4. **Employee**: Represents any employee working in the pharmacy. Responsible for processing sales and managing daily operations.
5. **Manager (extends Employee)**: Represents the pharmacy manager, who supervises employees, generates reports, and manages the overall operations.
6. **Inventory**: Represents the pharmacy's stock. It stores all available products and allows searching, updating, and tracking low-stock items.
7. **Sale (Invoice)**: Represents a single sale transaction in the pharmacy, including the sold products, total price, and employee who made the sale.
8. **Customer**: Represents a customer of the pharmacy, storing their personal details and purchase history.
9. **Customer Records (extends Customer)**: Represents credit customers who owe payments to the pharmacy. Tracks their due amount and last payment date.
10. **Cash Customer (extends Customer)**: Represents customers who pay directly (cash or card) at the time of purchase.
11. **DistributingCompany** : Represents the distribution companies that supply medicines and products to the pharmacy.