

CRC Card for Customer		
Class Name: Customer	ID: CUS001	Type: Entity
Description: Represents a user of the system with capabilities to browse products, manage a profile, and place orders.		Associated UC: View Medicines, Add to Cart, Manage Profile, Place Order
Responsibilities	Collaborators	
Register an account	Profile	
Login/logout	Cart	
Add items to the shopping cart	Order	
Browse and search for medicines		
Place an order		
Attributes		
customerId: String		
username: String		
email: String		
password: String		
address: String		
Relationships		
Association (uses-a)	Profile	
Association (uses-a)	Cart	
Association (uses-a)	Order	

CRC Card for Profile		
Class Name: Profile	ID: PRO002	Type: Entity
Description: Manages customer information and interactions within the pharmacy system.		Associated UC: Manage Profile
Responsibilities	Collaborators	
Store customer personal information.	Customer	
Update contact details.		
Maintain address information.		
Attributes		
customerId: string		
personalDetails: Analysis Model.PersonalDetails		
Relationships		
Association (belongs-to)	Customer	

CRC Card for Cart		
Class Name: Cart	ID: CRT003	Type: Entity
Description: A temporary storage for products that a customer intends to purchase.		Associated UC: Add to Cart, View Cart, Update Cart
Responsibilities	Collaborators	
Hold selected medicines before purchase.	Customer	
Update quantities of selected items.	Medicine	
Calculate subtotal of items.	CartItem	
Attributes		
cartId: string		
items: List<CartItem>		
totalAmount: double		
Relationships		
Association (belongs-to)	Customer	
Association (contains-many)	CartItem	

CRC Card for CartItem		
Class Name: CartItem	ID: CIT004	Type: Entity
Description: Represents a single item within a cart, including its quantity and associated medicine.		Associated UC: Update Cart
Responsibilities	Collaborators	
Track quantity of medicine.	Cart	
Associate with a specific medicine.	Medicine	
Attributes		
cartItemId: string		
medicine: Analysis Model.Medicine		
quantity: int		
price: double		
Relationships		
Association (contained-in)	Cart	
Association (uses-a)	Medicine	

CRC Card for Medicine		
Class Name: Medicine	ID: MED005	Type: Entity
Description: Details and stock information of a medicine available for purchase.		Associated UC: View Medicines, Add to Cart
Responsibilities	Collaborators	
description).	CartItem	
Check and update stock availability.	OrderDetail	
Attributes		
medicineId: string		
name: string		
description: string		
price: double		
stockQuantity: int		
Relationships		
Association (used-in-many)	CartItem	
Association (used-in-many)	OrderDetail	

CRC Card for Order		
Class Name: Order	ID: ORD006	Type: Entity
Description: Represents a purchase made by a customer, containing multiple items and their quantities.		Associated UC: Place Order, View Order
Responsibilities	Collaborators	
Generate a unique order identifier.	Customer	
Manage order status and tracking.	OrderDetail	
Aggregate total price of the order.		
Attributes		
orderId: string		
orderDate: Date		
status: string		
totalAmount: double		
orderDetails: List<OrderDetail>		
Relationships		
Association (belongs-to)	Customer	
Association (has-many)	OrderDetail	

CRC Card for OrderDetails		
Class Name: OrderDetail	ID: ODT007	Type: Entity
Description: Specifics of each item within an order, including price and quantity.		Associated UC: Place Order
Responsibilities	Collaborators	
Record details of items in an order.	Order	
Attributes	Medicine	
orderDetailId: string		
medicine: Analysis Model.Medicine		
quantity: int		
price: double		
Relationships		
Association (part-of)	Order	
Association (uses-a)	Medicine	

CRC Card for Report		
Class Name: Report	ID: REP008	Type: Control
Description: Generates various reports for the business, such as sales and inventory levels.		Associated UC: Generate Reports
Responsibilities	Collaborators	
Produce sales reports.	Order	
Analyze customer buying trends.	Medicine	
inventory reports.		
Attributes		
reportId: string		
type: string		
dateRange: Date		
Relationships		
Association (requested-by)	Admin	
Association (uses-data-from)	Order	
Association (uses-data-from)	Medicine	