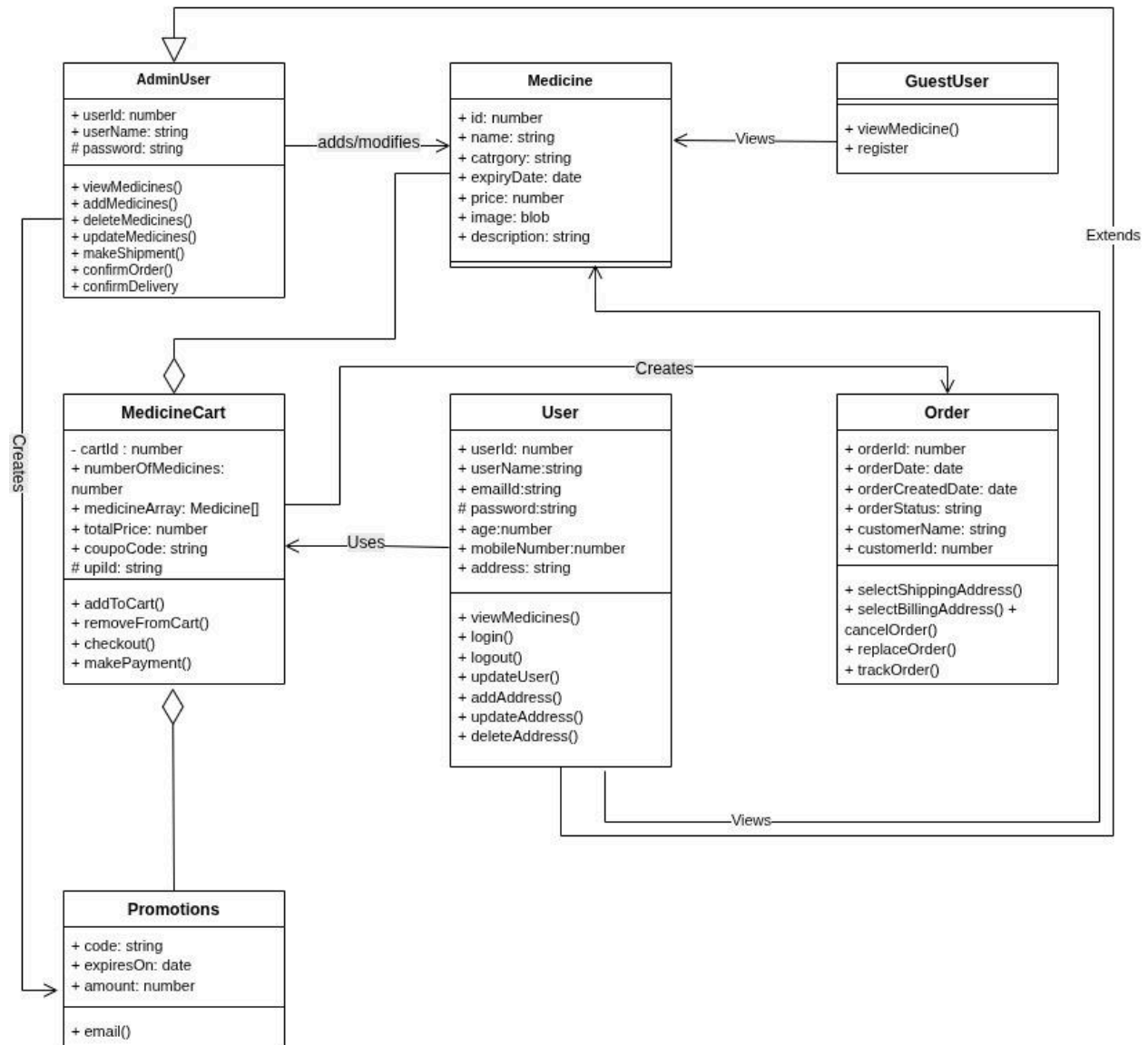


Medicine Delivery Application



Medicine delivery e-commerce application allows the user to order medicines online and get it delivered to their respective location.

Image above is the Class Diagram for the Medicine Delivery Application which shows the static structure of the system, and provides the relationship between the classes and how they interact with each other.

Classes Used

1) AdminUser

It represents the admin users who manage the applications orders and medicines.

- Attributes - userId, userName, password
- Methods- viewMedicine(), addMedicine(), deleteMedicine(), updateMedicine(), makeShipment(), confirmOrder(), confirmDelivery()

2) User

Represents registered users who can browse medicines, manage cart and order.

- Attributes: userId, userName, email, password, age, mobileNumber, address
- Methods: login(), logout(), addAddress(), updateAddress(), deleteAddress(), updateUser(), viewMedicine()

3) Guest User

It represents the user who is not registered/logged-in but can browse the medicines

- Methods: register() viewMedicine()

4) Medicine

It represents the medicine items available for purchase.

- Attributes: id, name, description, category, expiryDate, price, image

5) MedicineCart

It manages medicines selected by a user before placing an order.

- Attributes: cartId, noOfMedicines, medicineArray, totalPrice, couponCode, upId
- Methods: addToCart(), removeFromCart(), checkout(), makePayment()

6) Order

It represents a user's order once items are purchased from the cart.

- Attributes: orderId, orderDate, orderCreatedDate, orderStatus, customername, customerId
- Methods: selectShippingAddress(), selectBillingAddress(), cancelOrder, replaceOrder(), trackOrder()

7) Promotions

It represents discount or promotional offers that can be applied during checkout.

- Attributes: code, expiresOn, amount
- Methods: email()

Relationships:

- 1) User class extends AdminUser, it can use attributes and methods of AdminUser along with its own attributes and methods.
- 2) AdminUser is associated with Medicine, he can add, update, delete Medicine objects. He manages the inventory.
- 3) Users are associated with Order, users can create orders.
- 4) Users are associated with MedicineCart, users can add/remove items from cart, proceed to checkout and make payment
- 5) MedicineCart is aggregated with Promotions, cart can use Promotions like couponCode, but Promotions can exist independently of a cart.
- 6) MedicineCart has a composition relationship with Medicine, which means multiple medicines can be added to cart.
- 7) Order is associated with User, as each order is related to a user.
- 8) Order is associated with Medicine, as each order can have multiple medicines handled by MedicineCart
- 9) GuestUser can only view Medicines
- 10) Users can View and order medicines
- 11) Users can view the orders they have placed