Class Diagram:

Customer
- -name: string
- -address: string
- -email: string
- payment: payment
- delivery: delivery
- +search()
- +getBasket():basket

User
- -userid: string
- -password: string
- +authLogin(): bool

Payment
- -paymentid: string
- -paymentMethod: string
- +is_valid(): bool
- +storePayMethod():bool
- +addPayMethid()

Card
- -name: string
- -cardNo: int
- -cardType: string
- -CVV: int
- +validate(): bool
- +makepayment()

OnlinePay Service
- -name: string
- -url; string

Voucher
- -name: string
- -authCode: string
- -expiry: date

Basket
- -basketid: int
- -productid: int
- -quantity: int
- +addBasketitem()
- +deleteBasketitem()
- +updatequantity()
- +viewbasket()
- +checkout()

Order
- -orderid: int
- -customername: string
- -customerid: int
- -shippingid: string
- -paymentid: string
- +placeOrder()
- +updateOrder()

Delivery
- -name: string
- -deliverymethod: string
- +is_deliverymethodValid():bool

Seller
- -name: string
- -catagory:string
- -sellerid: int
- -email: string
- +updateCatalog(): bool

Individual
- -deliveryMethod: string

PaymentDetails
- -paymentid: string
- -paymentMethod: string
- -amount: float
- +updatePayment()

Organisation
- -deliveryMethod: string

Catalog
- -name: string
- -sellerid: int
- -catalogid:int
- -productid: int

DeliveryDetails
- -deliveryid: string
- -deliverymethod: string
- -deliverycost: float
- +updateShippingInfo()

Website
- -deliveryMethod: string

OrderDetails
- -oderid: int
- -productid: int
- -productName: string
- -quantity: int
- -unitCost: float
- -subtotal: float
- +calculatePrice()

Product
- -productid: int
- -name: string
- -description: string
- -price: float
- -catagory: string
- +getProductDetails()
- +displayProduct()