Group-3

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UML class diagram from E-commerce application

User DTO<Class>
- String userName
- String userPassword
- String firstName
- String lastName
- String mobileNumber
- String email

Status<Enum>
LOGGED_IN
LOGGED_OUT

Address
- Integer addressId
- String city
- String state
- String address
- String pincode
- User user

+ addAddress(Address address)
+ deleteAddress(Integer addressId)

**User **
- Integer userId
- String userName
- String userPassword
- String firstName
- String lastName
- String mobileNumber
- String email
- Login login
- List<Address> addresses

Login<Class, Entity>
  loginId
- String apiKey
- LocalDateTime keyExpiryDate
- LoginStatus status
- User user

+ User login(UserDTO loginInfo, String userType)
+ String logout(String key)
+ Login isTokenValid(String apiKey)

ProductCategory<Enum>
ELECTRONIC
BOOKS,
CLOTHES

ProductStatus<Enum>
AVAILABLE,
UNAVAILABLE,
OUT_OF_STOCK

Product
- Category category
- String productName
- Integer productId
- String description
- Integer price
- Double rating
- Integer quantity
- ProductStatus

+ checkQuantity()

Seller
- List<Product> products

+ addProducts();
+ removeProducts();
+ updateProducts();

OrderDTO
+ List<Item> orderItems
+ double cost
+ double gst
+ double deliveryCost
+ double totalCost

Customer
- Cart cart
- Card cardDetails
- List<Order> orderhistory

+ Customer addCustomer(Customer customer)
+ removeCustomer(UserDTO userInfo)
+ updateCustomer(UserDTO customerInfo, Integer id)
+ addCustomerCard(Integer customerId, Card card)
+ addCustomerAddress(Integer customerId, Address address)
+ removeCustomerAddress(Integer customerId, Integer addressId)

Card
- String cardNumber
- String validDate

+ addCard(Card card)
+ removeCard(Card card)
+ updateCard(Card card, Card updatedCard)

Shipment
- String shippedFrom
- String shippedTo
- LocalDate expectedDate
- DeliveryStatus deliveryStatus

+ operation1(params):returnType

Order
- Integer orderId
- List<Item> orderedItems
- Double itemsCost
- Double gst
- Double deliveryCharge
- Double totalAmount
- Shipment shipment
- String cardUsedForPayment
- LocalDate orderDate

+operation1(params):returnType

Cart
- Integer cartId
- List<Items> items
- Double total

+ saveCart(Customer customer,Item item)
+ List<Item> getAllItem(Cart cart)
+ sendToOrder(int customerId)

DeliveryStatus<Enum>
DELIVERED
DELIVERED
OUT_FOR_DELIVERY

PlaceOrderDTO
+ String cvv
+ int addressId

Item
- Integer itemId
- Products product
- Double itemPrice
- Integer requiredQuantity

+ addItem(Item item)
+ removeItem(Item item)

Item DTO
+ Integer productId
+ Integer requiredQuantity

ProductDTO
+ String productName
+ String description
+ Double price
+ Integer quantity
+ ProductCategory category