StoreView

- cartID : int
- sm : StoreManager
- IDIMAGE: HashMap<Integer, String>
- frame: JFrame
- mainPanel: JPanel
- headerPanel: JPanel
- bodyPanel: JPanel
- storePanel: JPanel
- storePanelHeader: JPanel
- storePanelBody: JPanel
- cartPanel: JPanel
- cartPanelHeader: JPanel
- cartPanelBody: JPanel
- footerPanel: JPanel
- listStoreBodyPanelLabel: ArrayList<JLabel>
- listCartBodyPanelLabel: ArrayList<JLabel>
- sliderCartBodyPanel: ArrayList<JSlider>
- headerLabel: JLabel
- storeLabel: JLabel
- cartLabel: JLabel
- c: GridBagConstraint

- + StoreView(sm : StoreManager, CartID : int)
- displayProduct (id: int): JLabel
- displayCartItem (id: int): JLabel
- imageMapping (id: int): JLabel
- productDisplay (): void
- cartDisplay (): void
- footerDisplay (): void
- + displayGUI (): void
- + main(String args[]): void

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StoreManager

- inventory: Inventory
- counterCartID: int
- shoppingCart: Hashmap<Integer, ShoppingCart>

- + checkStock(int): void
- + processTransactionOld(Integer[][]): void
- + getQuantity(): HashMap<Integer, Integer>
- + getProduct(): HashMap<Integer, Product>
- + getKeySet(): Set<Integer>
- + getShoppingCart(): HashMap<Integer, ShoppingCart>
- + assignNewCartID(): int
- + getCustomerCart(cartID: int): HashMap<Integer, Integer>
- + removeCartInventory(id : int, quantity : int, cartID : int) : void
- + addCartInventory(id : int, quantity : int, cartID: int) : void
- + processTransaction(cartID : int) : String

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ShoppingCart

- customerCart : HashMap<Integer, Integer>
- cartID : int

- + ShoppingCart (cartID: int)
- + getCustomerCart() : HashMap<Integer, Integer>
- + getCartID() : int
- + removeCustomerProduct(id : int, amount : int) : void
- + addCustomerProduct(id : int, amount : int) : void

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Product

- NAME: String
- ID: int
- PRICE: double

- + Product (name: String, id: int, price: double)
- + getName (): String
- + getId (): int
- + getPrice (): double

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Inventory

- infoProduct: HashMap <Integer, Product>
- idQuantity: HashMap <Interfer, Integer>

- + Inventory()
- + getAvailableID(): Set<Integer>
- + gettingQuantity(id: int): int
- + removingQuantity (id: int, amount: id): void
- + getProduct (id: int): Product
- + getIdQuantity (): HashMap<Integer, Integer>
- + getInfoProduct (): HashMap<Integer, Product>