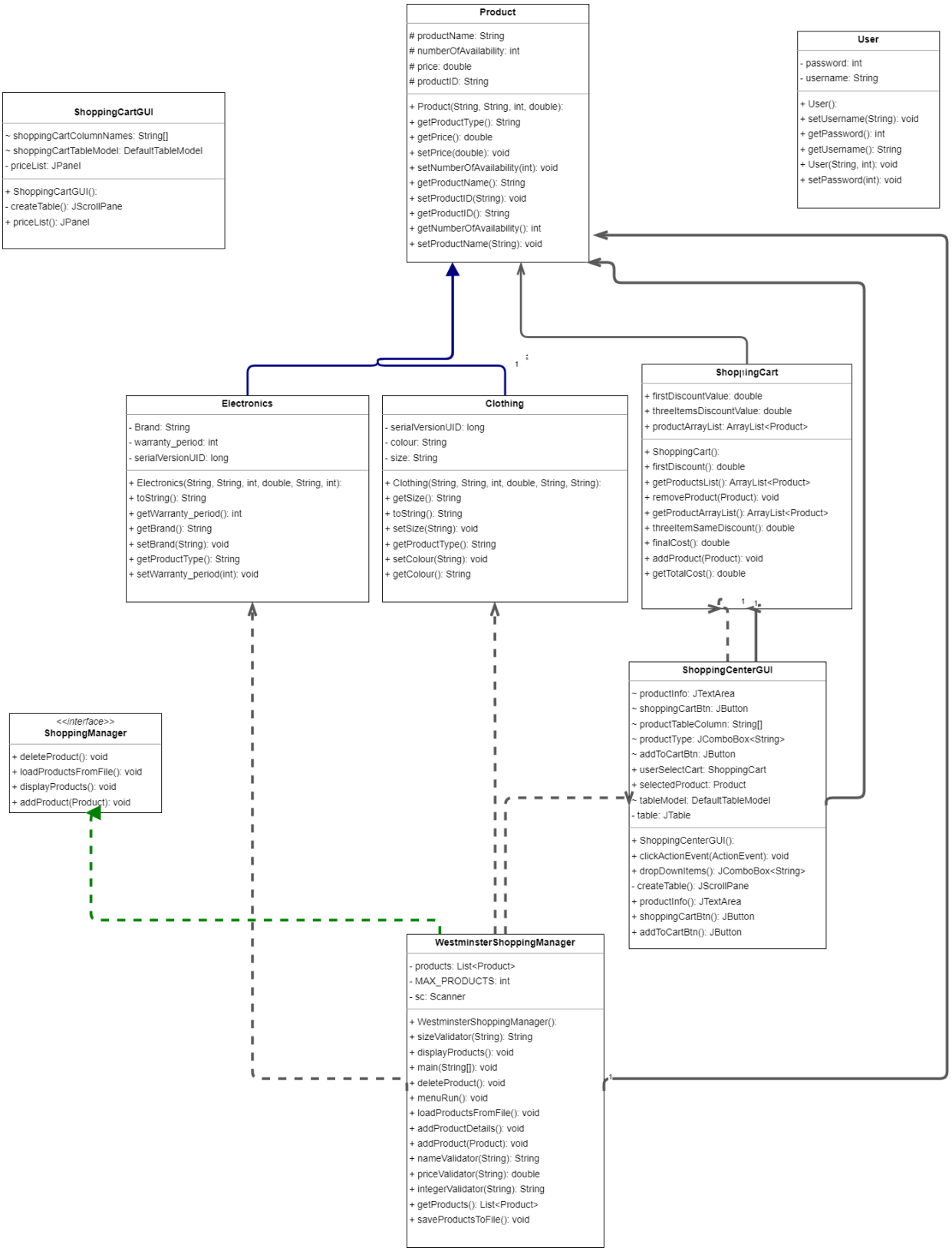
Product
productName: String
numberOfAvailability: int
price: double
productID: String
+ Product(String, String, int, double):
+ getProductType(): String
+ getPrice(): double
+ setPrice(double): void
+ setNumberOfAvailability(int): void
+ getProductName(): String
+ setProductID(String): void
+ getProductID(): String
+ getNumberOfAvailability(): int
+ setProductName(String): void
User
- password: int
- username: String
+ User():
+ setUsername(String): void
+ getPassword(): int
+ getUsername(): String
+ User(String, int): void
+ setPassword(int): void
ShoppingCartGUI
~ shoppingCartColumnNames: String[]
~ shoppingCartTableModel: DefaultTableModel
- priceList: JPanel
+ ShoppingCartGUI():
- createTable(): JScrollPane
+ priceList(): JPanel
Electronics
- Brand: String
- warranty_period: int
- serialVersionUID: long
+ Electronics(String, String, int, double, String, int):
+ toString(): String
+ getWarranty_period(): int
+ getBrand(): String
+ setBrand(String): void
+ getProductType(): String
+ setWarranty_period(int): void
Clothing
- serialVersionUID: long
- colour: String
- size: String
+ Clothing(String, String, int, double, String, String):
+ getSize(): String
+ toString(): String
+ setSize(String): void
+ getProductType(): String
+ setColour(String): void
+ getColour(): String
ShoppingCart
+ firstDiscountValue: double
+ threeItemsDiscountValue: double
+ productArrayList: ArrayList<Product>
+ ShoppingCart():
+ firstDiscount(): double
+ getProductsList(): ArrayList<Product>
+ removeProduct(Product): void
+ getProductArrayList(): ArrayList<Product>
+ threeItemSameDiscount(): double
+ finalCost(): double
+ addProduct(Product): void
+ getTotalCost(): double
ShoppingCenterGUI
~ productInfo: JTextArea
~ shoppingCartBtn: JButton
~ productTableColumn: String[]
~ productType: JComboBox<String>
~ addToCartBtn: JButton
+ userSelectCart: ShoppingCart
+ selectedProduct: Product
- tableModel: DefaultTableModel
- table: JTable
+ ShoppingCenterGUI():
+ clickActionEvent(ActionEvent): void
+ dropDownItems(): JComboBox<String>
- createTable(): JScrollPane
+ productInfo(): JTextArea
+ shoppingCartBtn(): JButton
+ addToCartBtn(): JButton
<<interface>>
ShoppingManager
+ deleteProduct(): void
+ loadProductsFromFile(): void
+ displayProducts(): void
+ addProduct(Product): void
WestminsterShoppingManager
- products: List<Product>
- MAX_PRODUCTS: int
- sc: Scanner
+ WestminsterShoppingManager():
+ sizeValidator(String): String
+ displayProducts(): void
+ main(String[]): void
+ deleteProduct(): void
+ menuRun(): void
+ loadProductsFromFile(): void
+ addProductDetails(): void
+ addProduct(Product): void
+ nameValidator(String): String
+ priceValidator(String): double
+ integerValidator(String): String
+ getProducts(): List<Product>
+ saveProductsToFile(): void