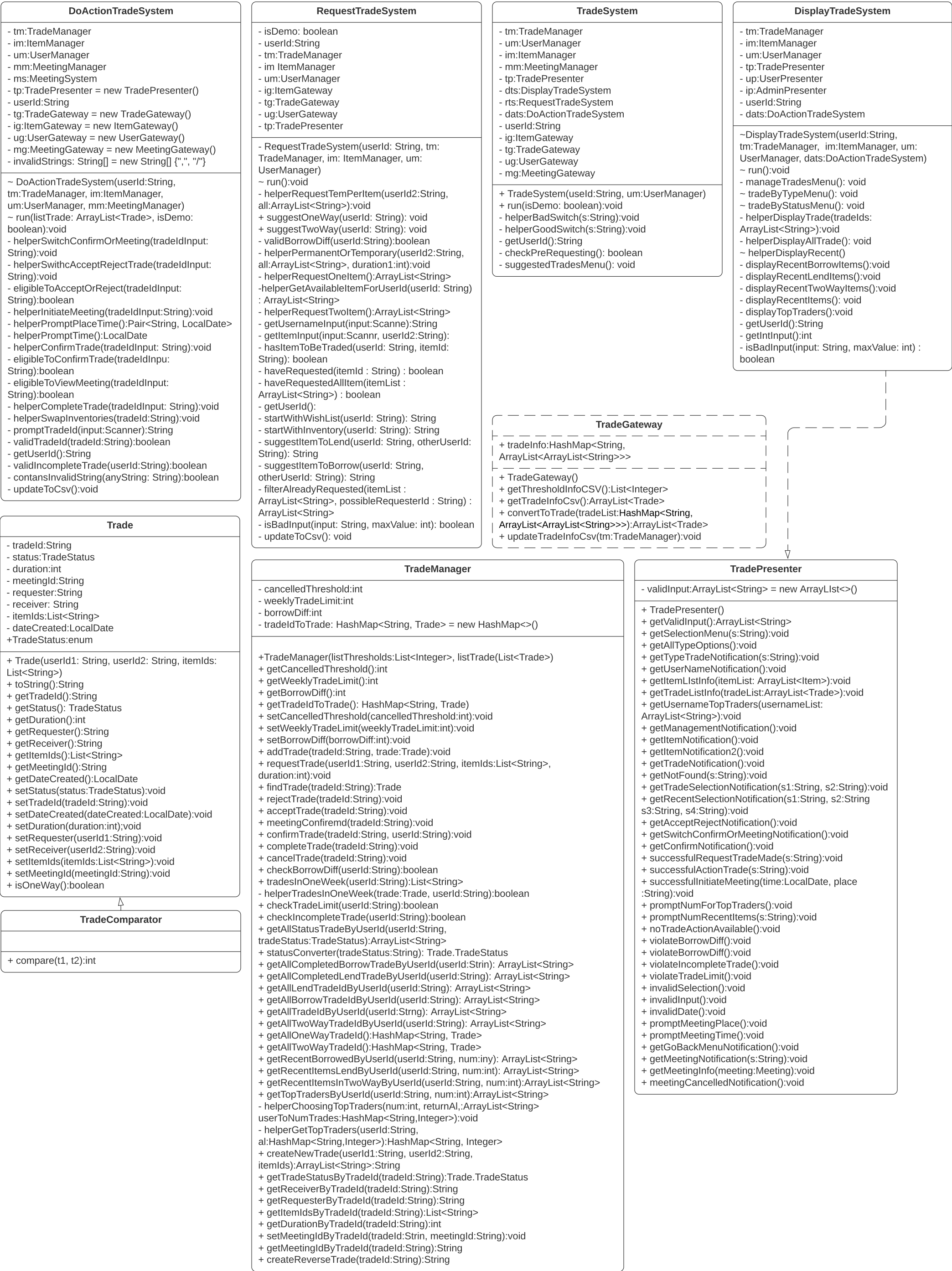


## Group\_0025 UML Diagram



# Trade UML



# Item UML

## ItemPresenter

```
+ itemPresenter
+ ItemMenu():void
+ allItemsMenu():void
+ wishlistMenu():void
+ inventoryMenu():void
+ viewAllItems(im, um):void
+ viewAllTrades(im, um):void
+ viewWishlist(um, im, userId):void
+ viewInventory(um, im, userId):void
+ addItemName():void
+ addItemDescription():void
+ itemCreationSuccess: void
+ invalidItemName: void
+ invalidDescription: void
+ addItemPrompt: void
+ removeItemPrompt: void
+ alreadyWishlistPrompt: void
+ notInWishlistPrompt: void
+ notInInventoryPrompt: void
+ noItemsPrompt: void
+ noWishlistPrompt: void
+ addToWishlistMessage: void
+ removedFromWishlistPrompt: void
+ removeFromInventoryPrompt: void
+ displayItemProfile(itemInfo): void
+ displayItem(itemId, username, im): void
```

## ItemStatus

```
- UNCHECKED: constant
- AVAILABLE: constant
- UNAVAILABLE: constant
- REMOVED: constant
```

## ItemSystem

```
-isDemo: boolean
-im:ItemManager
-um:UserManager
-up:UserPresenter
-ip:ItemPresenter
-ig:ItemGateway
ug:UserGateway
-userId:String
-invalidStrings: String[]=new String[] {".", "/" }
-input: Scanner=new Scanner(System.in)

+run(isDemo: boolean): void
+allItemsMenu: void
+addToInventoryMenu: void
+inventoryMenu: void
+wislistMenu: void
+addToWishlist(itemId): void
+ removeFromWishlist(itemId): void
+removeFromInventory(inventory, itemId): void
+ containsInvalidString(anyString): boolean
+ browseItems(im, um): void
```

## Item

```
- name:String
- id:String
- description:String
- enum:ItemStatus

+ Item(inputName: String, inputDescription: String)
+ getName():String
+ getId:String
+ getDescription():String
+ getStatus:ItemStatus
+ setName:void
+ setId:void
+ setDescription:void
+ setStatus:void
+ toString():String
```

## ItemManager

```
- itemIdToItem:HashMap<String, Item> = new HashMap<>()

+ ItemManager(allItems: List<Item>)
+ getItemIdToItem: Hashmap<String, Item>
+ itemList: ArrayList<Item>
+ createNewItem(inputName, inputDescription):String
+ itemById(itemId):Item
+ removeById(itemId): boolean
+ deleteItem(itemId): void
+ reAddById(itemId): boolean
+ getToString(itemId): String
+ removeById(itemId): boolean
+ getItemById(item): String
+ nameById(itemId): String
+ descriptionById(itemId): String
+ getRequestedItems: String
+ itemIdsByStatus(status): ArrayList<String>
+ statusById(itemId): ItemStatus
+ changeStatus(itemId, status): void
+ toString:String
```

## ItemGateway

```
-HashMap<String, ArrayList<String>> itemInfo

+ItemGateway
+getItemInfoCSV:Arraylist<Item>
+convertToItem:Arraylist<Item>
+updateItemInfoCSV(ItemManager)
+convertToHash<ItemManager>:HashMap
```

# Meeting UML

