GARDEN OF EDEN UML DIAGRAM

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CLIENT SIDE

OWNDER SIDE

Item

itemID: int
itemPrice: double

+ Item()
+ Item(double)
+ Item(String, double)
+ getters and setters
+ toString(): String
+ *calculateDiscount(double): double*

«interface» *ItemInterface*

+ *EligibleForDiscount(): boolean*
+ *GenerateID(): void*

Flower and FlowerJewelry are items

Flower

- flowerType: String
- color: String
- quantity: int
- FlowersAdded: int
- dummyID: int
- MAX_ID_RANGE: int
- MAX_FLOWER_QUANTITY: int

+ Flower()
+ Flower(String, String, int)
+ getters and setters
+ getNumberofFlowersIntheCart(): int
+ GenerateID(): void
+ toString(): String

FlowerJewelry

- flowerJewelryType: String
- Real: boolean
- FlowerJewelryAdded: int
- LOWER_BOUND_ID: int
- UPPER_BOUND_ID: int
- dummyID: int

+ FlowerJewelry()
+ FlowerJewelry(String, boolean)
+ getters and setters
+ getNumberofFlowerJewelryInCart(): int
+ GenerateID(): void
+ toString(): String

GardenOfEdenMain

+ main(String [] args): void

ShopManagement

- date: Timestamp
- f : SimpleDateFormat
- dateF: String
- stat :HashMap<String, Integer>

+ getDate(): Timestamp
+ setDate(Timestamp): void
+ getStat(): Map<String, Integer>
+ addToStat(String, int): void

ItemOptions

+ FLOWER_JEWELRY_IMAGES: ArrayList<String>
+ FLOWER_TYPES: ArrayList<String>
+ FLOWER_COLORS : ArrayList<String>
+ FLOWER_JEWELRY_TYPES: ArrayList<String>
+ BOUQUET_WRAP_COLOR: ArrayList<String>
+ FLOWER_IMAGES: HashMap<String, Double>
+ FLOWER_PRICES: HashMap<String,Double>
+ JEWELRY_PRICE: HashMap<String,Double>
+ EXPIRATION_DATES: HashMap<String, Integer>
+ COLOR_HEX_CODES: HashMap<String, String>

Bouquet has flowers

Bouquet

- flowerQuantity: ArrayList<Flower>
- MAX_QUANTITY: int
- BouquetID: int
- card: String
- wrappingPaper: String
- BouquetPrice: double
- BouquetsCreated: int
- LOWER_BOUND_ID: int
- UPPER_BOUND_ID: int
- dummyID: int

+ Bouquet()
+ Bouquet(ArrayList<Flower>, String, String)
+ getters and setters
+ getNumberofBouquetsInCart(): int
+ calculateBouquetPrice(): double
+ GenerateID(): void
+ CalculateFlowerQuantity(): int
+ toString(): String

ItemSystem

-Items: ArrayList<Item>
-bouquets:ArrayList<Bouquet>

+ addFlowerJewelry(int, String, boolean):boolean
+ addFlowers(int, String, String): boolean
+ removeItem(int): Item
+ searchItem(int): Item
+ removeBouquet(int): Bouquet
+ searchBouquet(int): Bouquet
+ calculateOverallItemPrice(): double
+ calculateDiscountOnDate(): double
+ getItems(): ArrayList<Item>
+ getBouquets(): ArrayList<Bouquet>
+ DisplayBouquet(): String
+ addBouquet(): boolean
+ DiscardBouquets(): void
+ cartToString(): String
+ GetLastItem(): String

DbControls

- myConn: Connection
- f: SimpleDateFormat

+ getFlowersData() String[][]
+ getJewData(): String[][]
+ getLastFlower(): Object[]
+ setAllDatesBoughtToNow(): boolean
+ getDatesBoughtByType(String): Map<Integer, Timestamp>
+ addDays(Timestamp, int): Timestamp
+ idExists(int): boolean
+ deleteByID(int): String
+ deleteExpiredAll(): ArrayList<Integer>
+ setMoney(double): boolean
+ getMoney(): double
+ getQuantityFlower(String): int
+ sellFlower(String, int): boolean
+ getQuantityJew(String): int
+ sellJew(String, int): boolean
+ buyFlower(String, int): String
+ buyJewelry(String, int): String
+ getQuantityStat(String): int
+ statUpdate(String, int): boolean
+ statInsert(String, int): boolean
+ recordStats(): boolean
+ statsToString(): String