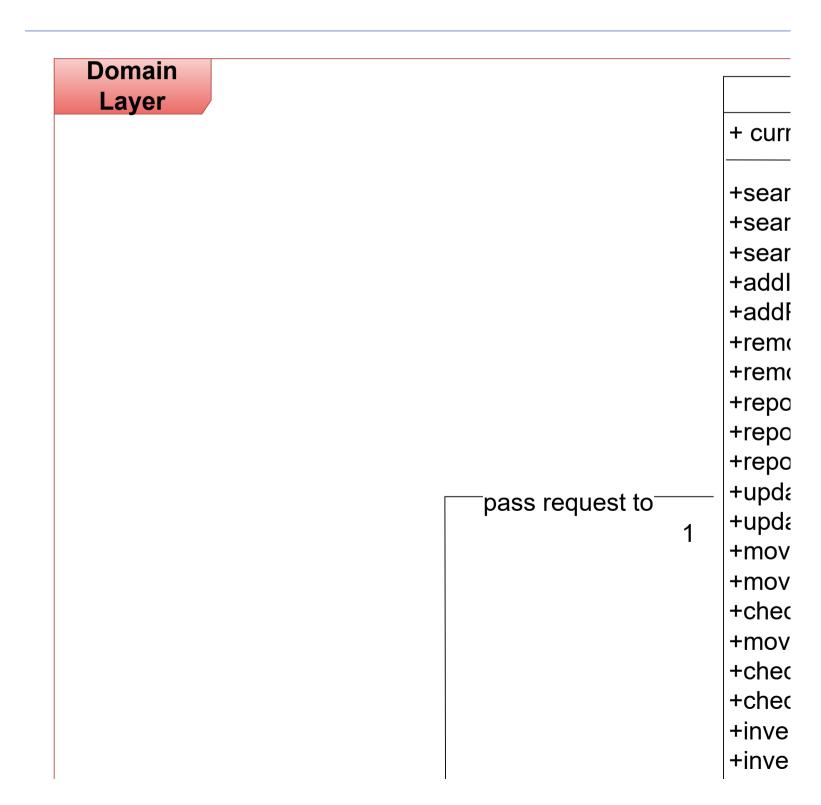
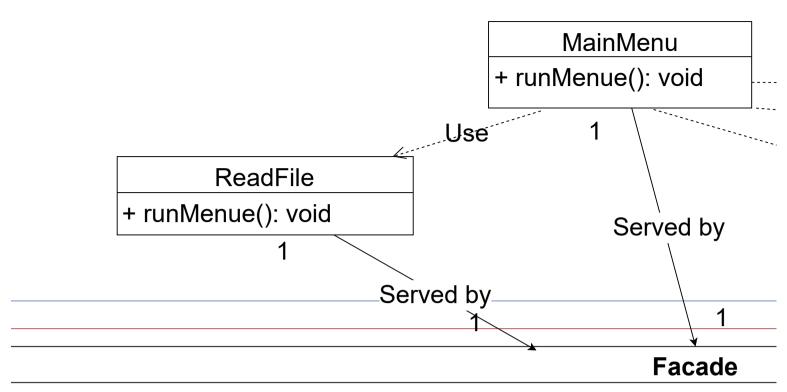


Presentation Layer





entDate LocalDate

chProdByCatNumService(int catNum): boolean

chProdByCategoryService(String mainCat, String subCat, String size)

chltemService(int id): boolean

temService(Json newItem): void

ProductService(Json newProd): void

oveProductService(int catalogNum) : void

oveSelIItemService(int idToRemove) : void

rtDamageService(int idToReport): void

rrtExpService(int idToReport): void

rtForSellService(int idToReport): void

ateSaleService(String mainCat, String subCat, String size, LocalDate

ateDiscountService(String mainCat, String subCat, String size, int ratio

eToWareService(int id, Tuple<String, Integer> newPlace): void

eToStoreService(int id, Tuple<String, Integer> newPlace): void

ckMinimalAmountService(int id): boolean

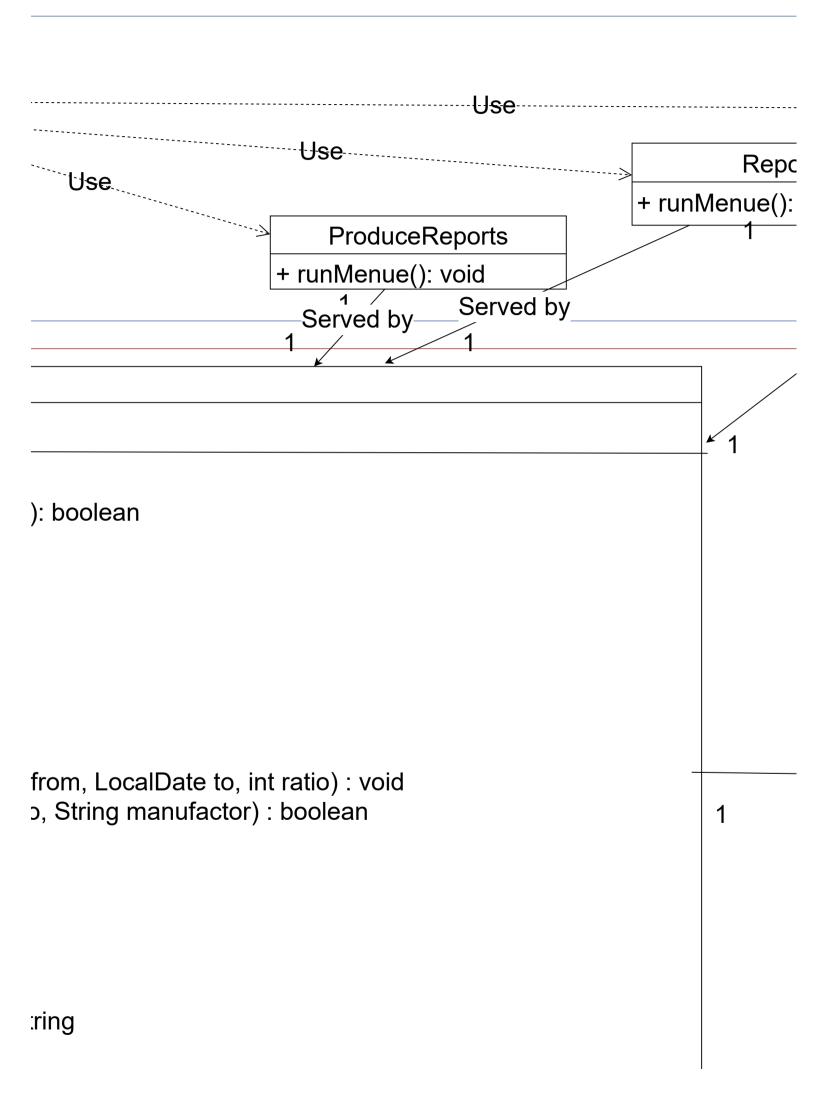
eToNextDay(): void

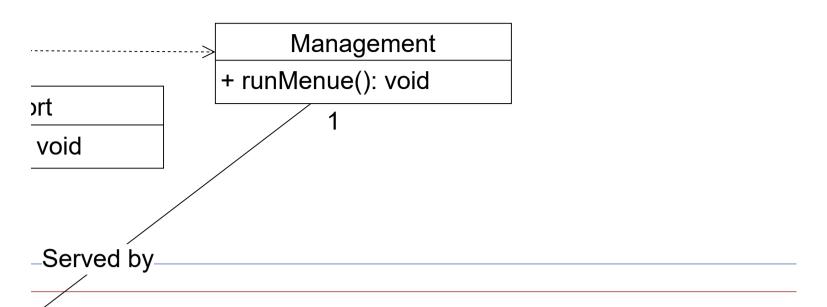
ckAllItemsExpService(): void

ckAllProductSaleService(): void

ntReportByCatService(String mainCat, String subCat, String size): St

ntReportAllService(): String





−pass request to-

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+shor +expf +defe

ProductControler

- amountProducts int
- +searchProdByCatNumCTR(int catNum): boolean
- +searchProdByCategoryCTR(String mainCat, String subCat, Stri size): boolean
- +addProdCTR(Json newProdRec): void
- +removeProdCTR(int catNum): void
- +reportItemRemove(int catNum, String place):void
- +reportItemAdd(int catNum, String place):void
- +updateSaleCTR(String mainCat, String subCat, String size, Loc from, LocalDate to, int ratio): void
- +updateDisCTR(String mainCat, String subCat, String size, String manufacurer, int ratio): boolean
- +checkMinimalAmountCTR(int catNum): boolean
- +checkAllProductSaleCTR(): void
- +inventReportByCatCTR(String mainCat, String subCat, String s
- : ArrayList<Products>
- +inventReportAllService(): ArrayList<Products>
- +shortageReportCTR(): ArrayList<Products>

tageReportService(): String ReportService(): String ctiveReportService(): String +find(i +add(J manage ng +remo 1 ProductRepo alDate +findIfExist(String mainCat, String subCat, String subCa +find(int unique): Product g +findAllProductsByMainCat(String mainCat): ArrayList< +findAllProductsBySubCat(String mainCat, String subC +findAllProductsBySize(String mainCat, String subCat, ArrayList<Products> ize) +findAll():ArrayList<Products> +add(Json newRec): Product +remove(int unique): Product <u>update:</u> +updateSalePriceRepo(ArrayList<Integer> Products, sa +updateDisRepo(ArrayList<Integer> Products, int ratio, boolean +updateAmountItem(String addOrRemove, int catNum,

<</nr>IRepository

nt unique) :<T>

lson newRec) : <T>
ve(int unique) : <T>

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at):boolean

<Products>

at) : ArrayList<Products> String subCat) :

ItemRepo

+find(int unique): Item

+findAllByStatus(ItemStatusstatus): Array

+add(Json newRec): Item

+remove(int unique): Item

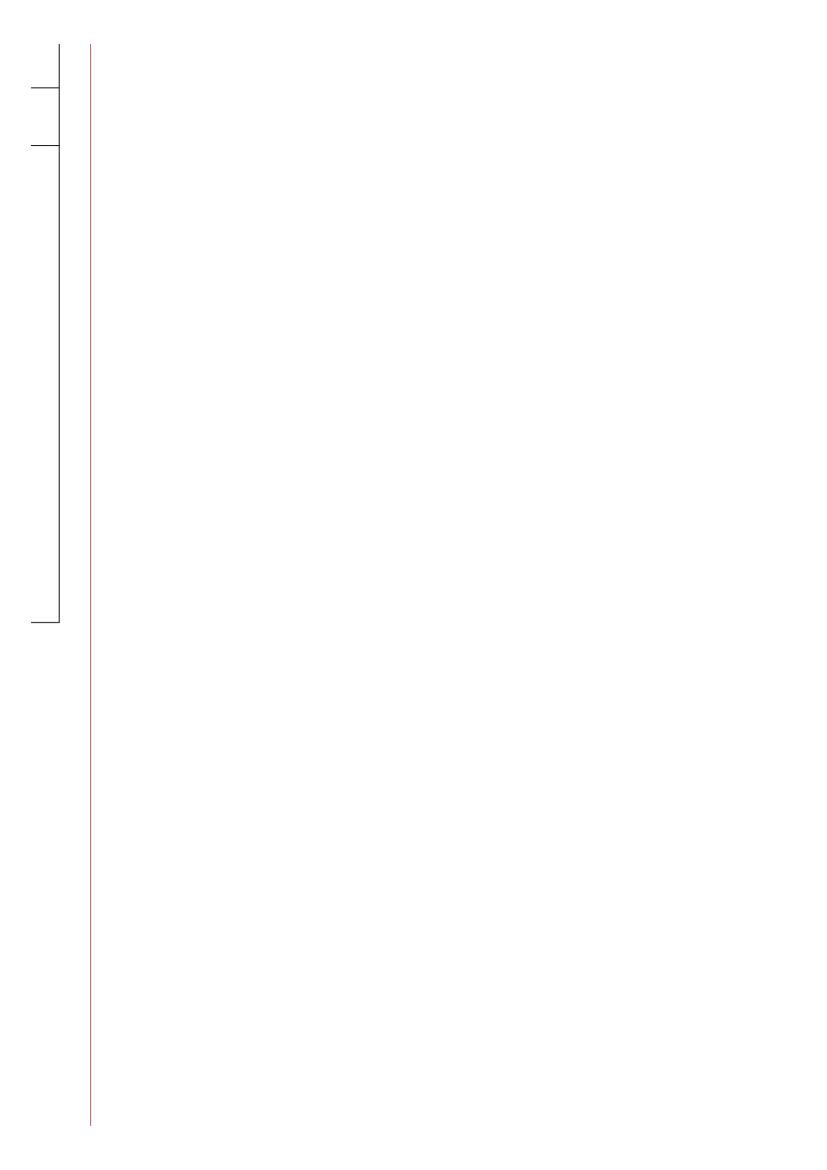
<u>update:</u>

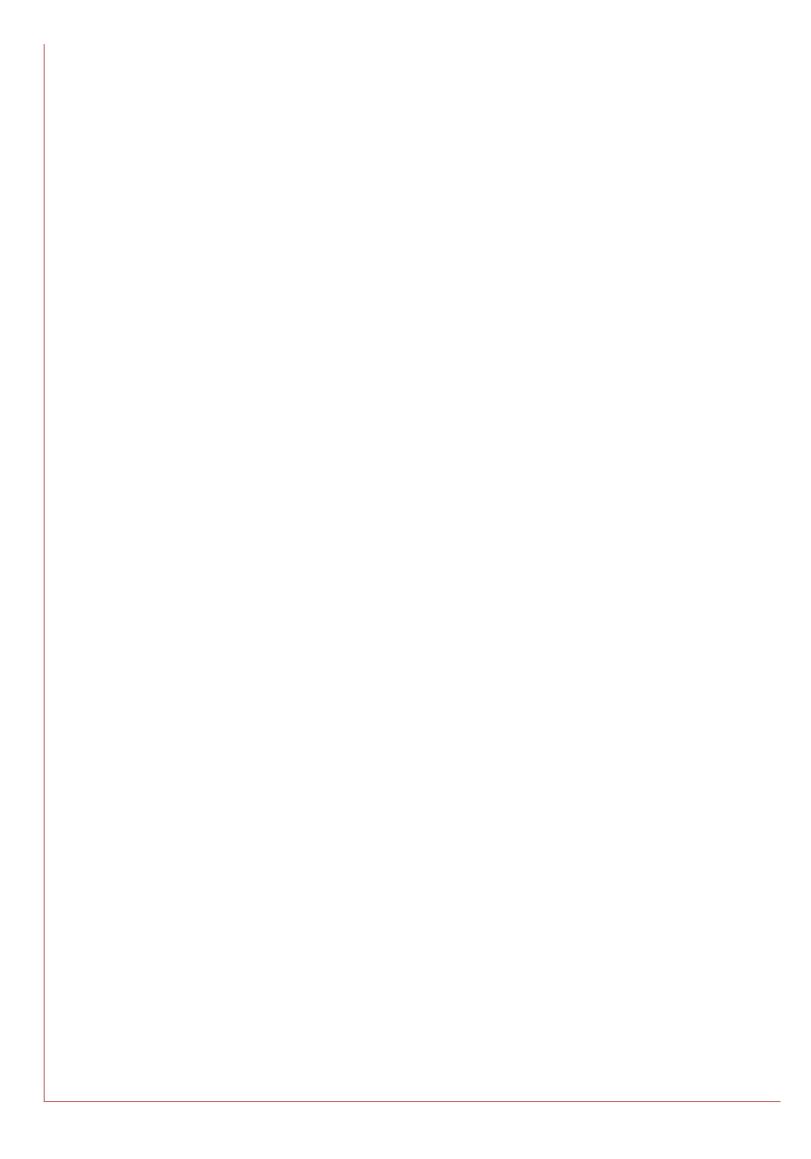
- +reportStatus(ItemStatus status, int idToF
- +moveToWhere(int idToMove, Tuple<Strir newPlace, String toWhere): Item

alePrice newSale): void String manufacturer):

String place):void

	ItemControler		
	- amountItems int		
	+searchItemCTR(int id): Item +addItemCTR(Json newRec): Item +removeItemCTR(int id): Item +reportStatusCTR(ItemStatus status, int idToReport): Item +moveToWhereCTR(int idToMove, Tuple <string, integer=""> newPlace, String toWhere): Item +checkAllItemsExpCTR(): ArrayList<item> +expReportCTR(): ArrayList<item> +defectiveReportCTR(): ArrayList<item></item></item></item></string,>		
/List <item></item>			
Report) : Item	1		
ntains			





-prodSize S

-catName S

-subCatNan

-total tuple<

-manufactor

-catalogNun

-marketPrice

-manuPrice

-manuPrice

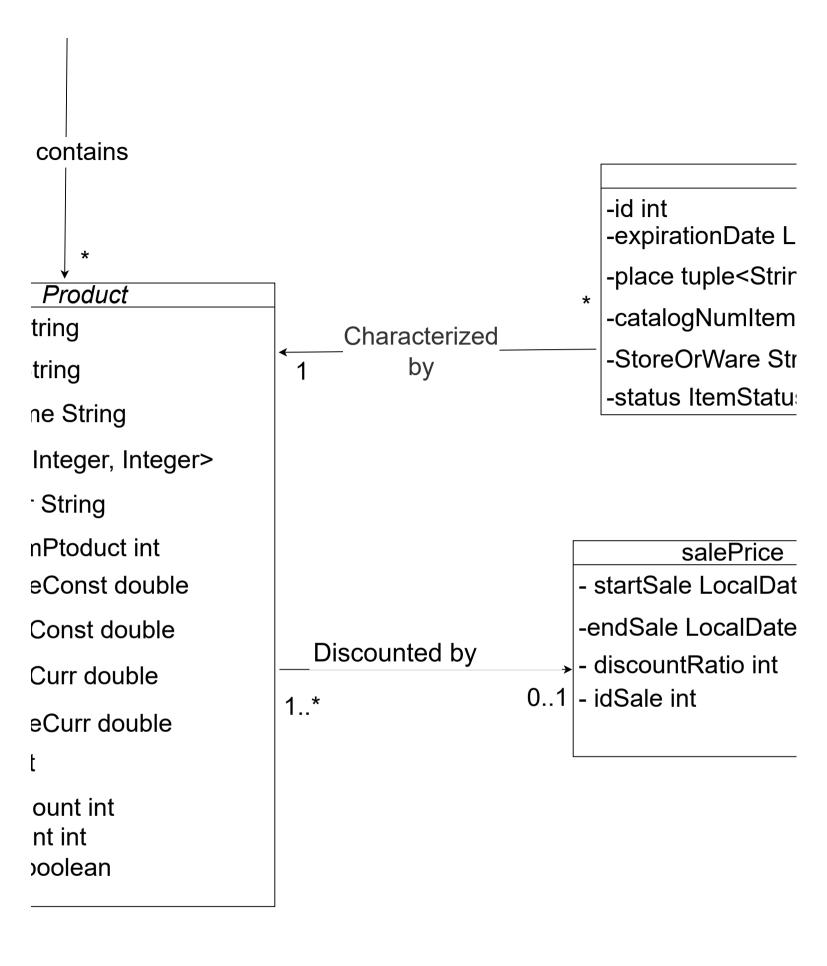
-marketPrice

-discount int

-minimalAm

-orderAmou

-inStorage k



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Item

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<<Enum>> ItemStatus

Defective

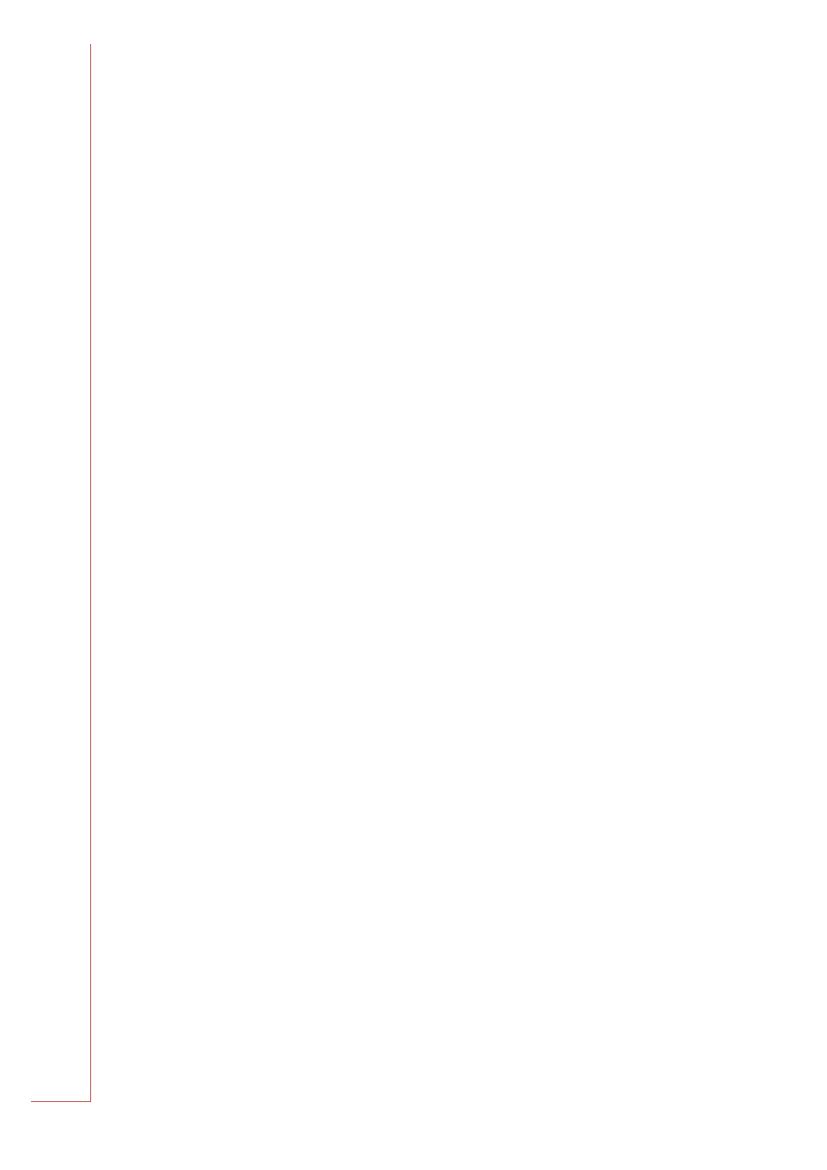
Expired

For_Sale

е

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use



Data Access Layer

Product

- +search(int UniqeToSearch): Json
- + insert(Json recordToAdd): void
- + remove(int UniqueToremove): void
- +removeItemDB(int catNum, String fromWhere): void
- +findAllProductsByMainCatDB(String mainCat, ArrayList
- +findAllProductsBySubCatDB(String mainCat, String sub
- +findAllProductsBySizeDB(String mainCat, String subCat ArrayList<Json>
- +updateSaleDB(ArrayList<Integer> catalogNumToUpdate
- +updateDisDB(ArrayList<Integer> catalogNumbersToUpc
- +updatePlacedItemDB(int catNum, String WareOrStore)

Data Base

	L	ISE		
AccessObj				
<integer> already Cat, ArrayList<in t, String subCat, A</in </integer>	teger> alread	dyHave) : A	rrayList <json></json>	
∍, int idOfNewSal date, double ratio : void		io): void		

