When initiateTransaction() method is invoked the product requested by the customer is searched by name (via search By CompanyName() method) , company name (via search ByCompanyName() method ), component name(via searchByComponent() method). If product is available and there is no due payment, updateProduct() method is called. If customer is unable to give full payment, addLoan() method is called.

When notifyAdministrator() method is called, the notification will be added to the notification table within the recordManagementDatabase. Administrator will be able to see the notification messages via the manageNotification() method when notifySupplier() method is called, message will be sent to the supplier’s contact no and/ or email address.

# Shareholder

Attribute: Methods:

* joiningDate - withdrawCashOrInvest()
* investment Amount - viewCashInformation()

Responsibility: Collaboration Class:

NotificationnManagement RecordManagementDatabase

Notification

When withdrawCashOrInvest() method is called, addNotification() method of RecordManagementDatabase is invoked. The action (withdraw/invest) is included with the amount notification. The administrator view the notification via manageNotification() method. When viewCashInformation() method is invoked shareholder can see cash information, graphs.

User

Administrator

Salesperson

Shareholder

Product

Supplier

Customer

AddAndRetrieveAccount

SignInAndSignOut

Notification

Record

Graph

CashDetails

HRManagementDatabase

ProductManagementDatabase

ProductManagementDatabase

TransactionManagementDatabase

System

# System

Attributes : Methods:

checkExpiryDate()

checkLawStorage()

calculateSalaryInformation()

viewSystemSummary()

Responsibility: Collaboration Class:

ExpiryDateChecking Product,Product ManagementDatabase

RecordManagementDatabase

LowStorageChecking Product,

ProductManagementDatabase,

RecordManagementDatabase

Once a day, the checkExpiryDate() method is called. The method goes through the product table of ProductManagementDatabase and surveys for products whose expiry dates will come within the time limit fixed by the administrator. If it finds a product which has reached the time limit , it will send a notification to RecordManagementDatabase.

Once a day, the checkLowStorage() method is called. The method goes through the product table of ProductManagementDatabase and surveys for products whose whose quantity is equal to lower than the which has reched or exceded the limit. It will send a notification to RecordManagementDatabase.

When viewCashInformation() method of Shareholder, System will show graphs and transactions.

When a product is sold, system will generate a corresponding transaction.

# Interface

* taking input
* creating environment for administrator
* display graph
* display transaction information
* creating environment to represent transaction

management

* showing notification