Asa Hayes   CSCE-121-700   Moore   July 18, 2017

Design Document: Store Backend Part 2

Driver Program:

Tests assume functions within Product and Customer work correctly

```
main{
        try{
                create store object with default params
                Print "default constructor has succeeded"
        }catch{
                Print "default constructor has failed"
        }
        delete store object

        try{
                create store object with customized params
                Print "custom constructor has succeeded"
        }catch{
                Print "custom constructor has failed"
        }
        delete store object

        try{
                create store object with invalid params
                "invalid constructor has been accepted"
        }catch{
                Print "invalid constructor has been rejected"
        }
        delete store object

        try{
                create store object with default params
                create default product and insert into store
                attempt to use getProduct
                Print "default addProduct or getProduct has succeeded"
        }catch{
                Print "default addProduct or getProduct has failed"
        }
        delete store object
```

```
try{
        create store object with default params
        create custom product and insert into store
        attempt to use getProduct
        Print "custom addProduct or getProduct has succeeded"
}catch{
        Print "custom addProduct or getProduct has failed"
}
delete store object

try{
        create store object with default params
        create 2 identical products and insert into store
        attempt to use getProduct
        Print "duplicate products accepted"
}catch{
        Print "duplicate products rejected"
}
delete store object

try{
        create store object with default params
        create default customer and insert into store
        attempt to use getCustomer
        Print "default addCustomer or getCustomer has succeeded"
}catch{
        Print "default addCustomer or getCustomer has failed"
}
delete store object

try{
        create store object with default params
        create custom product and insert into store
        attempt to use getCustomer
        Print "custom addCustomer or getCustomer has succeeded"
}catch{
        Print "custom addCustomer or getCustomer has failed"
}
delete store object

try{
        create store object with default params
        create duplicate customers and insert into store
```

```
        Print "duplicate customers rejected"
}catch{
        Print "duplicate customers accepted"
}
delete store object

try{
        create store object with default params
        create default product and insert into store
        attempt to use takeShipment
        Print "takeShipment has succeeded"
}catch{
        Print "takeShipment has failed"
}
delete store object

try{
        create store object with default params
        create duplicate products and insert into store
        attempt to use takeShipment
        Print "takeShipment has taken in duplicate shipments"
}catch{
        Print "takeShipment has rejected duplicate shipments"
}
delete store object

try{
        create store object with default params
        create default product and insert into store
        create default customer and insert into store
        attempt to use sellProduct
        Print "sellProduct has succeeded"
}catch{
        Print "sellProduct has failed"
}
delete store object

try{
        create store object with default params
        create duplicate products and insert into store
        create default customer and insert into store
        attempt to use sellProduct
        Print "sellProduct has accepted duplicate products"
```

```
        }catch{
                Print "sellProduct has rejected duplicate products"
        }
        delete store object

        try{
                create store object with default params
                create default product and insert into store
                create duplicate customers and insert into store
                attempt to use sellProduct
                Print "sellProduct has accepted duplicate customers"
        }catch{
                Print "sellProduct has rejected duplicate customers"
        }
        delete store object

        try{
                create store object with default params
                create customer with positive balance and insert into store
                attempt to use takePayment
                Print "takePayment has failed"
        }catch{
                Print "takePayment has failed"
        }
        delete store object

        try{
                create store object with default params
                create customer with negative balance and credit = true, insert into store
                attempt to use takePayment
                Print "takePayment with credit has succeeded"
        }catch{
                Print "takePayment with credit has failed"
        }
        delete store object

        try{
                create store object with default params
                create customer with negative balance and credit = false, insert into store
                attempt to use takePayment
                Print "takePayment without credit accepted"
        }catch{
                Print "takePayment without credit rejected"
```

```
        }
        delete store object

        try{
                create store object with default params
                create several different products and insert into store
                attempt to use listProducts
                Print "listProducts has succeeded"
        }catch{
                Print "listProducts has failed"
        }
        delete store object

        try{
                create store object with default params
                create several different customers and insert into store
                give each customer a few products
                attempt to use listCustomers
                Print "listCustomers has succeeded"
        }catch{
                Print "listCustomers has failed"
        }
        delete store object
}
```