Project 0

**Presentation Day: Dec 23rd**

Objects:

* Customer
* Products
* Orders
* Stores

Customer:

* view their past purchases
* view available store locations
* must be able to purchase 1 or more products
* must be able to view current cart
* must be able to checkout
* must be able to cancel a purchase

Products:

* have a name
* a price
* a description

Order

* must be able to compute its total cost
* must be able to contain at least 1 product
* has a order limit of 50 items
* must be able to limit its total cost to no more than $500

Store:

* must be able to view past sales
* has store location
* [stretch goal] must be able to manage product inventory (add, edit, delete any product)

Architecture:

* StoreApplication (solution - sln template)
* Client (executable - console template)
* Domain (library - classlib template)
* Storage (library - classlib template)
* Testing (unit testing - xunit template)

Other Requirements:

* a solution containing 4 projects (Client(FE), Domain(Business Layer), Storage(Repository Layer), Testing) should be implemented (10pts)
* test coverage of at least 30% should be implemented (10pts)
* data storage using a DB with ADO.NET should be implemented (10pts)
* runtime monitoring with logging should be implemented (10pts)

Scoring - 50 pts total

|  |  |
| --- | --- |
| Points | Description |
| 2 pts | customer being able to view a list of store locations and select one |
| 2 pts | customer being able to view available products to purchase at a store |
| 2 pts | customer able to purchase at least 1 product, max 50 items or max $500 |
| 2 pts | customer able to view their past purchases |
| 2 pts | customer able to view past purchases of a store |
| 10 pts | solution containing 4 projects (Client(FE), Domain(Business Layer), Storage(Repository Layer), Testing) should be implemented |
| 10 pts | test coverage of at least 30% |
| 10 pts | data storage using a DB with ADO.NET |
| 10 pts | runtime monitoring with |

Notes:

Cart features – what happens if two people are shopping for the same thing at the same time? Give a person a warning