XInventory Software

Technical Documentation

Software was created to provide a solution to managing inventory in a retail environment. The software looks to solve the problem of having to use multiple systems to manage inventory. These multiple systems make managing inventory cumbersome and overly complex.

System Requirements:

The solution identified 6 requirements for the system to accomplish. In addition to the main functional requirements, there were several non-functional requirements. The principle non-functional requirement that was deemed most important was that the system be simple, practical and easy to use.

Identifier	Priority Weight (Low 1 - 5 High)	Requirement Description
REQ-1	**3**	System shall support user login and authentication
REQ-2	1	System shall support registering new users.
REQ-3	4	System shall support users to define month supply of inventory by both make and model
REQ-4	5	System shall pull in-stock inventory from dealership CRM
REQ-5	2	System shall calculate month's supply of inventory
REQ-6	4	System shall compute long or short position of inventory

There were six uses cases that the system was designed to do.

UC-1: InvSettings: The system is to be configurable by the end user by allowing the inventory settings to be customizable.

UC-2: UserAdmin: The system will allow administrators to configure new users, delete old users and perform other administrative tasks.

UC-3: FetchData: The system will fetch and display data to the end user via API's and database implementations.

UC-4: CalcSupply: The system will perform and display inventory positions based on the default or user specified inventory settings.

UC-5: Admin

Automobile Inventory

Database

User
-name : String
-deliveryAddress : ...
-contact : String
-active : boolean

FetchData
-address : String
+getAddress() : String
+setAddress(a : String)

Inventory

Admin
-name : String
-title : String
+getName() : String
+setName(n : String)
+payBill() : String

Calcsupply
-modelId : Integer
+getSupply() : Iteger
+setSupply(a : Integer)