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.

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| 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

