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COMP-3700

14 December 2019

Project 3 Design Document

This brief design document covers the new format of our Store Management Software that now utilizes “user types” as its user interaction structure, as well as a “client/server” for data management, storage, and interaction. The software can utilize both local and remote databases by utilizing a client/server structure. This document details the four users of our multi-user system. Those 4 user cases, in order of hierarchy, are Admin, Manager, Cashier, and Customer.

*USE CASES:*

As a customer I want to:

1. Log into the Store Management Server as a customer.
2. Make a new purchase.
3. View previous purchases.
4. Cancel an Existing Purchase.
5. Search product information in the system.

As an administrator I want to:

1. Log into the Store Management Server as an admin.
2. Configure the system.
3. Update User information.

As a cashier I want to:

1. Edit Customer information.
2. Add/edit a purchase or purchase information.

As a manager I want to:

1. Add a new product or update a current product in the system.
2. Edit Customer information.
3. Edit Product information.
4. Edit Purchase information.
5. View a summary of sales.

All Users:

1. I want to change my password or full name.

|  |  |
| --- | --- |
| ACTOR ACTIONS | SYSTEM RESPONSES |
| **User logs in with valid admin credentials:** | System displays Admin Homepage: |
| **Admin selects “Add User”:** | System displays Add User page: |
| **Customer logs in with valid customer credentials:** | System displays Customer Homepage: |
| **Customer clicks “Search Product” button:** | System displays Search Product Screen: |
| **Customer clicks “View Purchase History” button:** | System displays Purchase History screen: |
| **Manager logs in with valid credentials:** | System displays Manager Homepage: |
| **Manager selects “Manage Products”:** | System displays Update Product page where he/she can view/update/add a product: |
| **Manager selects “Manage Customers”:** | System displays Manage Customer Information screen where he/she can view/update/add a new customer into the system: |
| **Manager selects “Manage Purchases”:** | System displays Manage Purchase Information screen where he/she can view/update/add a new purchase into the system: |
| **User screen displayers “User Edit” button on screen (regardless of User type):** |  |
| **User clicks “Update User Info” button:** | System display User Information update screen: |
| **Cashier selects “Add Purchase”:** | System displays “Add Purchase” screen: |

User-Customer Abilities:

-Make a Purchase

-View Purchase History

-Cancel a Purchase

User-Admin Abilities:

-Configure the System

-Add a User

-Delete a User

User-Manager Abilities:

-Add/Update/View Customer information

-Add/Update/View Product information

-Add/Update/View Purchase information

User-Cashier Abilities:

-Add/Update Customer information

-Add/Update Purchase information

**User Permissions:**

A: Add U: Update V: View D: Delete

Admin: Products/Purchases/Customers/Users AUVD

Manager: Products/Purchases/Customers AUV

Cashier: Products(V) Purchases(AU) Customers(AUV)

Customer: Products(V) Purchases(AD\*) Customers(-)

**Database Information:**

Users:

* Username, password, fullname, usertype

Products:

* Name, ProductID, Price, quantity.

Customers:

* Name, address, CustomerID, phone.

Relationships:

* Purchase: PurchaseID, *CustomerID*, ProductID, Price, Quantity, Cost, Tax, Total, Date

Products(­ProductID, Name, Price, Quantity).

Customers(CustomerID, Name, Address, Phone,).

Purchases(PurchaseID, *CustomerID*, ProductID, Price, Quantity, Cost, Tax, Total, Date)

Users(Username, Password, Fullname, Usertype)