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Project 2 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 covers the “Customer” and “Admin” user types, as well as the “Manager” user type which was implemented in order to achieve the design goals detailed in Project 2. The “Manager” user type was chosen to enact the detailed user stories because this user type was the one that most logically would be performing those actions (editing/adding products, purchases, and customers).

*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 and Existing Purchase.

As an administrator I want to:

1. Log into the Store Management Server as an admin.
2. Configure the system.
3. Add a new user.
4. Delete a user.

As a manager I want to:

1. Add a new product or update a current product in the system. [PROJECT 2]
2. Update a current product in the system. [PROJECT 2]
3. Add a new customer in the system. [PROJECT 2]
4. Update a current customer in the system. [PROJECT 2]
5. Add a new purchase in the system. [PROJECT 2]
6. Update a current purchase in the system. [PROJECT 2]

|  |  |
| --- | --- |
| ACTOR ACTIONS | SYSTEM RESPONSES |
| **User logs in with valid admin credentials:** | System displays Admin Homepage: |
|  |  |
| **User logs in with valid customer credentials:** | System displays Customer Homepage: |
| **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-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 Permissions:**

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

Admin: Products/Purchases/Customers AUVD

Manager: Products/Purchases/Customers AUV

Cashier: Products(V) Purchases(A) 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)