**Use Case for “Load Product”**

Name: Loading an existing product from the server

Actor: Manager

Goal: Load and update existing item in the inventory

Preconditions: Server was logged into with Manager access

Summary: Actor can load and update an existing item in the database

Steps:

|  |  |
| --- | --- |
| Actor | System |
| Logs in as Manager  Click on “Manage Products”  Manager Main Menu: | Displays Manage Products Screen |
| Enter productID  Click “Load” | Loads productID 1 |
| Back to Manage Product  May Edit or save | Exit out screen to go back to main menu |

Postconditions: System ends back at the Manager Main Menu to await further input

**Use Case for “Save Product”**

Name: Save a new/loaded product to server

Actor: Manager

Goal: Save a new/loaded product to database

Preconditions: Server was logged into with Manager access

Summary: Actor can save a new or loaded product into the database

Steps:

|  |  |
| --- | --- |
| Actor | System |
| Logs in as Manager  Clicks “Manage Products”  Manager Main Menu: | Manage Product Screen |
| Enter in info  Click “Save” | Display success message |
| Back to Manage Products | Exit off screen to go back to main menu |

Postconditions: System is back at Manager Main Menu to await further input

**Use Case for “Load Customer”**

Name: Loading an existing customer from the server

Actor: Manager

Goal: Load and Update an existing customer from the database

Preconditions: Server logged into as Manager

Summary: Actor can load and update an existing customer from the database

Steps:

|  |  |
| --- | --- |
| Actor | System |
| Logs in as Manager  Clicks “Manage Customers”  Manager Main Menu: | Manage Customers Screen |
| Type a customerID  Click “Load” | Loads customerID 1 |
| Back to Manage Customers menu  May edit and save. | Exit off screen to go back to main menu |

Postconditions: System is back at Manager Main Menu to await further input

**Use Case for “Save Customer”**

Name: Save a new/loaded customer to the server

Actor: Manager

Goal: Save a new/loaded customer to the database

Preconditions: Server logged into as Manager

Summary: Actor can add a new customer or update an existing one to the database

Steps:

|  |  |
| --- | --- |
| Actor | Systen |
| Logs in as Manager  Clicks “Manage Customers”  Manager Main Menu | Manage Customers menu |
| Create new customer entry  Click “Save” | Display success message |
| Back to Manage Customers menu | Exit off screen to go back to main menu |

Postconditions: System returns to Manager Main Menu to await further input

**Use Case for “Load Purchase”**

Name: Load an existing purchase

Actor: Customer, Cashier

Goal: Load to update an existing purchase

Preconditions: Server logged into as Customer or Cashier

Summary: Allows customer or Cashier to modify an existing purchase

Steps:

|  |  |
| --- | --- |
| Actor | System |
| Logs in as Cashier (or Customer)  Clicks “Manage Purchases”  Cashier Main Menu: | Manage Purchase Menu |
| Type purchaseID  Click “Load” | Loads purchaseID 1 |
| Back to Manage Purchases  May edit and save | Exit off of screen to go back to main menu |

Postconditions: System returns to Customer or Cashier Main Menu to await further input

**Use Case for “Save Purchase”**

Name: Save a new/loaded purchase

Actor: Customer, Cashier

Goal: Save a new/loaded purchase

Preconditions: Server logged into as Customer

Summary: Allows customers or cashiers to add a new or modify existing purchases

Steps:

|  |  |
| --- | --- |
| Actor | System |
| Logs in as Cashier (or Customer)  Clicks “Manage Purchases”  Cashier Main Menu: | Manage Purchase Menu |
| Input info  Click “Save” | Display success message |
| Back to Manage Purchase | Exit off to go back to main menu |

Postconditions: System returns to the to Customer or Cashier Main Menu to await further input

**Logical Design of Database**

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, CustomerID)

Client Side:

Users

Username

Password

Fullname

Usertype

CustomerID(if customer)

Server Side:

Purchase

Customers

Products

productID

Name

Price

Quantity

purchaseID

customerID

productID

Price

Quantity

Cost

Tax

Total

Date

customerID

Name

Address

Phone

**Physical Design of Database**

CREATE TABLE "Customers" (

"customerID" INTEGER NOT NULL,

"Name" TEXT,

"Address" TEXT,

"Phone" TEXT,

PRIMARY KEY("customerID")

);

CREATE TABLE "Products" (

"productID" INTEGER NOT NULL,

"Name" TEXT,

"Price" INTEGER,

"Quantity" INTEGER,

PRIMARY KEY("productID")

);

CREATE TABLE "Purchases" (

"purchaseID" INTEGER NOT NULL UNIQUE,

"customerID" INTEGER,

"productID" INTEGER,

"Price" INTEGER,

"Quantity" INTEGER,

"Cost" INTEGER,

"Tax" INTEGER,

"Total" INTEGER,

"Date" TEXT,

PRIMARY KEY("purchaseID"),

FOREIGN KEY("customerID") REFERENCES "Customers"("customerID"),

FOREIGN KEY("productID") REFERENCES "Products"("productID")

);

CREATE TABLE "Users" (

"Username" TEXT UNIQUE,

"Password" TEXT,

"Fullname" TEXT,

"Usertype" INTEGER,

"CustomerID" INTEGER,

PRIMARY KEY("Username")

);

**Additional Use Cases Using Users**

Manager:

View Purchases:

|  |  |
| --- | --- |
| Actor | System |
| Logged in as Manager | Display Manager Menu |
| Click “view purchases” | Display Purchase History |

Admin:

Adding User:

|  |  |
| --- | --- |
| Actor | System |
| Logged in Admin | Display admin main menu |
| Click “Add User”  Add info | Display “Add User” |

Change Type of User:

|  |  |
| --- | --- |
| Actor | System |
| Click “Change User Type”  Enter desired change | Display Change User Type Menu |

**Customer:**

View Purchase:

|  |  |
| --- | --- |
| Actor | System |
| Logged in Customer |  |
| Click “View Purchase History” |  |

Search Product:

|  |  |
| --- | --- |
| Actor | System |
| Click “Search product” |  |

**User (General):**

Change Full name and Pass:

|  |  |
| --- | --- |
| Actor | System |
| Click “Change User Info” |  |