**Add Product:**

**Common Case: Product added successfully!**

A. Name: Adding new products to the systems

F. Related use cases: Updating other products and adding users

G. Steps: Describe each step using a 2-column format

Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Product”  Main Screen: | 1.Display “Add Product” screen  “Add Product” screen: |
| 2.Input data the click “Add” button | 2. Hide “Add Product” Screen and display “Add Product Successfully” screen: |
| 3.Click “OK” Button | 3.Display “Main” Screen |

**Exception: Duplicate Product ID**

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Product”  Main Screen: | 1.Display “Add Product” screen  “Add Product” screen: |
| 2.Input data the click “Add” button | 2. Hide “Add Product” Screen and display “Product NOT added successfully! Duplicate product ID!” screen: |
| 3.Click “OK” Button | 3.Return to “Main” Screen |

**Add Customer:**

**Common Case: Customer added successfully!**

A. Name: Adding new customers to the systems

F. Related use cases: Updating other customer information and adding purchases to customers

G. Steps: Describe each step using a 2-column format

Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Customer”  Main Screen: | 1.Display “Add Customer” screen  “Add Customer” screen: |
| 2.Input data the click “Add” button | 2.Hide “Add Customer” Screen and display “Add Customer Successfully” screen: |
| 3.Click “OK” Button | 3.Display “Main” Screen |

**Exception: Invalid Phone!**

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Customer”  Main Screen: | 1.Display “Add Customer” screen  “Add Customer” screen: |
| 2.Input data the click “Add” button | 2.Hide “Add Customer” Screen and display “Phone is invaid” screen: |
| 3.Click “OK” Button | 3.Display “Main” Screen |

**Add Purchase:**

**Common Case: Purchase added successfully!**

A. Name: Adding new transactions to the systems

F. Related use cases: Updating other transactions and adding customers to purchase

G. Steps: Describe each step using a 2-column format

Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Purchase”  Main Screen: | 1.Display “Add Product” screen  “Add Product” screen: |
| 2.Input data the click “Add” button | 2. Hide “Add Product” Screen and display “Add Product Successfully” screen: |
| 3.Click “OK” Button | 3.Display “Main” Screen |

**Exception: Invalid customer ID!**

|  |  |
| --- | --- |
| Actor | System |
| 1.Choose command “Add Purchase”  Main Screen: | 1.Display “Add Product” screen  “Add Product” screen: |
| 2.Input data the click “Add” button | 2.Hide “Add Product” Screen and display “Error: No customer with id ” screen: |
| 3.Click “OK” Button | 3.Display “Main” Screen |

SQL:

﻿CREATE TABLE "Customers" (

"CustomerID" INTEGER NOT NULL,

"CustomerName" TEXT NOT NULL,

"Phone" TEXT NOT NULL,

"Address" TEXT NOT NULL,

"PaymentInfo" INTEGER,

PRIMARY KEY("CustomerID")

);

﻿CREATE TABLE "Products" (

"ProductID" INTEGER NOT NULL,

"Name" TEXT NOT NULL,

"Price" NUMERIC NOT NULL,

"Quantity" INTEGER NOT NULL,

PRIMARY KEY("ProductID")

);

﻿CREATE TABLE "Purchases" (

"PurchaseID" INTEGER NOT NULL,

"CustomerID" INTEGER NOT NULL,

"ProductID" INTEGER NOT NULL,

"Price" REAL NOT NULL,

"Quantity" REAL NOT NULL,

"Cost" REAL NOT NULL,

"Tax" REAL NOT NULL,

"Total" REAL NOT NULL,

"Date" TEXT,

PRIMARY KEY("PurchaseID")

);

INSERT INTO Customers (“CustomerID”, “CustomerName”, “Phone”, “Address”, “PaymentInfo”)

VALUES

(﻿101, “Natalie”, “678675231”, “Auburn”, 123456),

102, Peyton, “897654234”, “Auburn”, 87362341),

103, Colton, “561573199”, “Dallas”, 134190481),

104, Susan, “404384249”, “Atlanta”, 397091624)

105, Grace, “678546372”, “Nashville”, 397374321);

INSERT INTO Products (“ProductID”, “Name”, “Price”, “Quantity”)

VALUES (﻿101, “Apples”, 1, 10),

(102, “Oranges”, 2, 15),

(103, “Bananas”, 2, 8),

(104, “Limes”, 5, 12)

(105, “Lemons”, 3, 7);

INSERT INTO Purchases ("PurchaseID", "CustomerID", "ProductID", "Price", "Quantity", "Cost", "Tax","Total", "Date")

VALUES (101, 101, 101, 1.0, 2.0, .18, 2.18, “Tue Oct 15 00:55:32 CDT 2019”),

(102, 102, 102, 2.0, 2.0, 2.0, 0.18, 2.18, “﻿Tue Oct 15 00:55:32 CDT 2019”),

(﻿103, 103, 103, 2.0, 4.0, 8.0, 0.72, 8.72, “Tue Oct 15 00:57:15 CDT 2019”),

(104, 103, 102, 2.0, 4.0, 8.0, 0.72, 8.72, “Tue Oct 15 00:58:42 CDT 2019”),

(105, 104, 105, 3.0, 5.0, 15.0, 1.35, 16.35, “Tue Oct 15 00:58:42 CDT 2019”),

(106, 105, 104, 5.0, 4.0, 20.0, 1.8, 21.8, “Tue Oct 15 00:58:42 CDT 2019”),

(107, 102, 103, 2.0, 7.0, 14.0, 1.26, 15.26, “Tue Oct 15 00:58:42 CDT 2019”),

(108, 101, 102, 2.0, 4.0, 8.0, 0.72, 8.72, “Tue Oct 15 00:58:42 CDT 2019”),

(109, 105, 103, 2.0, 4.0, 8.0, 0.72, 8.72, “Tue Oct 15 00:58:42 CDT 2019”)

(110, 103, 101, 1.0, 2.0, 2.0, 0.18, 2.18, “Tue Oct 15 00:58:42 CDT 2019”);