Design documents

Anran Ye

Products(**productid**, name, expiration date, price, tax rate, quantity)

Customers(**customerid**, name, address, phone, payment info)

Purchase(**purchaseid**, *customerid*, *productid*, date time, quantity, price, tax, total cost)

Name: Adding a new product into the system

Steps:

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “Add Product”  Main screen: | 2. Display “Add Product” screen  “Add Product” screen: |
| 3. Input data then click “Add” button  “Add Product” screen with data: | 4. Hide “Add Product” screen and display “Add Product Successfully” screen:  “Add Product Successfully” screen: |
| 5. Click on “OK” button: | 6. Display “Main” screen |

Name: Adding a new customer into the system

Steps:

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “Add Customer”  Main screen: | 2. Display “Add Customer” screen  “Add Customer” screen: |
| 3. Input data then click “Add” button  “Add Customer” screen with data: | 4. Hide “Add Customer” screen and display “Add Customer Successfully” screen:  “Add Customer Successfully” screen: |
| 5. Click on “OK” button: | 6. Display “Main” screen |

Name: Adding a new purchase into the system

Steps:

|  |  |
| --- | --- |
| **Actor** | **System** |
| 1. Choose command “Add Purchase”  Main screen: | 2. Display “Add Purchase” screen  “Add Purchase” screen: |
| 3. Input data then click “Add” button  “Add Purchase” screen with data: | 4. Hide “Add Purchase” screen and display “Add Purchase Successfully” screen:  “Add Purchase Successfully” screen: |
| 5. Click on “OK” button: | 6. Display “Main” screen |

Customer:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CustomerID** | **Name** | **Address** | **Phone** | **PaymentINFO** |
| 1 | Anran | Auburn | 3343322525 | Paypal |
| 2 | Tom | New York | 3343322524 | Applepay |
| 3 | Amy | Las Vegas | 3343322523 | Cash |
| 4 | Bob | Miami | 3343323425 | Credit |
| 5 | Apple | Boston | 3343326754 | Paypal |

Product:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ProductID** | **Name** | **ExpirationDate** | **Price** | **TaxRate** | **Quantity** |
| 1 | Ye | 09/10/19 | 100.0 | 10% | 2.0 |
| 2 | Apple | 09/01/19 | 120.0 | 10% | 2.0 |
| 3 | Samsun | 09/03/19 | 110.0 | 10% | 2.0 |
| 4 | Gray | 09/02/19 | 150.0 | 10% | 2.0 |
| 5 | IBM | 09/10/19 | 140.0 | 10% | 2.0 |

Purchase:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PurchaseID** | **CustomerID** | **ProductID** | **DateTime** | **Quantity** | **Price** | **Tax** | **TotalCost** |
| 1 | 3 | 2 | '09/01/19' | 2.0 | 240.0 | 24.0 | 211.22 |
| 2 | 2 | 3 | '09/03/19' | 2.0 | 220.0 | 22.0 | 242.0 |
| 3 | 1 | 4 | '09/02/19' | 2.0 | 300.0 | 30.0 | 330.0 |
| 4 | 5 | 1 | '09/10/19' | 2.0 | 200.0 | 20.0 | 220.0 |
| 5 | 4 | 5 | '09/10/19' | 2.0 | 280.0 | 28.0 | 308.0 |
| 6 | 2 | 3 | '09/03/19' | 5.0 | 550.0 | 55.0 | 605.0 |
| 7 | 3 | 5 | '09/10/19' | 6.0 | 640.0 | 64.0 | 704.0 |
| 8 | 4 | 2 | '09/01/19' | 7.0 | 840.0 | 84.0 | 924.0 |
| 9 | 3 | 3 | '09/03/19' | 4.0 | 440.0 | 44.0 | 484.0 |
| 10 | 2 | 5 | '09/10/19' | 5.0 | 700.0 | 70.0 | 770.0 |

CREATE TABLE "Customers" (

"CustomerID" INTEGER NOT NULL,

"Name" TEXT DEFAULT 'Anran',

"Address" TEXT DEFAULT 'Auburn',

"Phone" TEXT DEFAULT 3343322525,

"PaymentINFO" TEXT DEFAULT 'Paypal',

PRIMARY KEY("CustomerID")

);

CREATE TABLE "Products" (

"ProductID" INTEGER NOT NULL,

"Name" TEXT DEFAULT 'Ye',

"ExpirationDate" TEXT DEFAULT '09/10/19',

"Price" REAL DEFAULT 120.66,

"TaxRate" REAL DEFAULT '10%',

"Quantity" REAL DEFAULT 2,

PRIMARY KEY("ProductID")

);

CREATE TABLE "Purchase" (

"PurchaseID" INTEGER NOT NULL,

"CustomerID" INTEGER NOT NULL,

"ProductID" INTEGER NOT NULL,

"DateTime" TEXT DEFAULT '09/10/19',

"Quantity" REAL DEFAULT 2,

"Price" REAL DEFAULT 100.05,

"Tax" REAL DEFAULT 5.56,

"TotalCost" REAL DEFAULT 211.22,

PRIMARY KEY("PurchaseID","CustomerID","ProductID")

);

INSERT INTO "main"."Customers" ("CustomerID", "Name", "Address", "Phone", "PaymentINFO") VALUES ('1', 'Anran', 'Auburn', '3343322525', 'Paypal');

('2', 'Tom', 'New York', '3343322524', 'Applepay');

('3', 'Amy', 'Las Vegas', '3343322523', 'Cash');

('4', 'Bob', 'Miami', '3343323425', 'Credit');

('5', 'Apple', 'Boston', '3343326754', 'Paypal');

INSERT INTO "main"."Products" ("ProductID", "Name", "ExpirationDate", "Price", "TaxRate", "Quantity") VALUES ('1', 'Ye', '09/10/19', '100.0', '10%', '2.0');

('2', 'Apple', '09/01/19', '120.0', '10%', '2.0');

('3', 'Samsun', '09/03/19', '110.0', '10%', '2.0');

('4', 'Gray', '09/02/19', '150.0', '10%', '2.0');

('5', 'IBM', '09/10/19', '140.0', '10%', '2.0');

INSERT INTO "main"."Purchase" ("PurchaseID", "CustomerID", "ProductID", "DateTime", "Quantity", "Price", "Tax", "TotalCost") VALUES

('1', '3', '2', '''09/01/19''', '2.0', '240.0', '24.0', '211.22');

('2', '2', '3', '''09/03/19''', '2.0', '220.0', '22.0', '242.0');

('3', '1', '4', '''09/02/19''', '2.0', '300.0', '30.0', '330.0');

('4', '5', '1', '''09/10/19''', '2.0', '200.0', '20.0', '220.0');

('5', '4', '5', '''09/10/19''', '2.0', '280.0', '28.0', '308.0');

('6', '2', '3', '''09/03/19''', '5.0', '550.0', '55.0', '605.0');

('7', '3', '5', '''09/10/19''', '6.0', '640.0', '64.0', '704.0');

('8', '4', '2', '''09/01/19''', '7.0', '840.0', '84.0', '924.0');

('9', '3', '3', '''09/03/19''', '4.0', '440.0', '44.0', '484.0');

('10', '2', '5', '''09/10/19''', '5.0', '700.0', '70.0', '770.0');

Purchase

Products

Customers