1. Use cases
   1. User Story: As a user, I want to add a new product into the system.
      1. User Case: Add a new Product (Common)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Product’ from the main view | 1. Display add product view |
| 1. Enter relevant information and choose ‘Add’ | 1. Close add product view |

* + 1. User Case: Add a new Product (Exceptional: user fails to enter proper information)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Product’ from the main view | 1. Display add product view |
| 1. Enter part of the relevant information and choose ‘Add’ | 1. Program displays error message |

* 1. User Story: As a user, I want to add a new customer into the system.
     1. User Case: Add a new Customer (Common)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Customer’ from the main view | 1. Display add customer view |
| 1. Enter relevant information and choose ‘Add’ | 1. Close add customer view |

* + 1. User Case: Add a new Customer (Exceptional: user fails to enter proper information)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Customer’ from the main view | 1. Display add customer view |
| 1. Enter part of the relevant information and choose ‘Add’ | 1. Program displays error message |

* 1. User Story: As a user, I want to add a purchase from a customer into the system.
     1. User Case: Add a new Purchase (Common)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Purchase’ from the main view | 1. Display add purchase view |
| 1. Enter relevant information and choose ‘Add’ | 1. Close add purchase view |

* + 1. User Case: Add a new Purchase (Exceptional: user fails to enter proper information)

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Choose ‘Add Purchase’ from the main view | 1. Display add purchase view |
| 1. Enter part of the relevant information and choose ‘Add’ | 1. Program displays error message |

1. UI Screens
   1. Main View



* 1. Add Product View



* 1. Add Customer View



* 1. Add Purchase View



1. Data Base Design
   1. Products

﻿CREATE TABLE "Products" (

"ProductID" INTEGER NOT NULL,

"Name" TEXT NOT NULL,

"Price" NUMERIC NOT NULL,

"Quantity" NUMERIC NOT NULL

);

INSERT INTO Products(ProductId, Name, Price, Quantity) VALUES (1,"Pencil",0.99,100.0)

INSERT INTO Products(ProductId, Name, Price, Quantity) VALUES (2,"Grill",99.99,5.0)

INSERT INTO Products(ProductId, Name, Price, Quantity) VALUES (3,"Toaster",9.99,50.0)

INSERT INTO Products(ProductId, Name, Price, Quantity) VALUES (4,"Bed",49.99,10.0)

INSERT INTO Products(ProductId, Name, Price, Quantity) VALUES (5,"Laptop",999.99,20.0)

* 1. Customers

﻿CREATE TABLE "Customers" (

"CustomerID" INTEGER NOT NULL,

"Name" TEXT NOT NULL,

"Phone" TEXT NOT NULL,

"Address" TEXT NOT NULL

);

NSERT INTO Customers(CustomerId, Name, Phone, Address) VALUES (1,"Brandon Smith","256-682-1135","3043 West Glenn Avenue")

INSERT INTO Customers(CustomerId, Name, Phone, Address) VALUES (2,"Julia Tucker","256-682-6623","201 Augusta Trace")

INSERT INTO Customers(CustomerId, Name, Phone, Address) VALUES (3,"Rachel Davis","256-264-3658","1208 South College Street")

INSERT INTO Customers(CustomerId, Name, Phone, Address) VALUES (4,"Bob Jones","256-035-5392","304 Wire Road")

INSERT INTO Customers(CustomerId, Name, Phone, Address) VALUES (5,"Bill Jacobs","256-823-8392","509 South Donahue Drive")

* 1. Purchases

﻿CREATE TABLE "Purchases" (

"PurchaseID" INTEGER NOT NULL,

"CustomerID" INTEGER NOT NULL,

"ProductID" INTEGER NOT NULL,

"Price" NUMERIC NOT NULL,

"Quantity" NUMERIC NOT NULL,

"Cost" NUMERIC NOT NULL,

"Tax" NUMERIC NOT NULL,

"Total" NUMERIC NOT NULL,

"Date" TEXT NOT NULL

);

INSERT INTO Purchases VALUES (1,1,1,0.99,10.0,9.9,0.891,10.791,"Fri Oct 11 20:46:47 CDT 2019")

INSERT INTO Purchases VALUES (2,1,3,9.99,2.0,19.98,1.7982,21.778200000000002,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (3,1,5,999.99,1.0,999.99,89.9991,1089.9891,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (4,2,2,99.99,3.0,299.96999999999997,26.997299999999996,326.96729999999997,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (5,2,4,49.99,2.0,99.98,8.9982,108.9782,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (6,3,1,0.99,30.0,29.7,2.673,32.373,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (7,3,2,99.99,1.0,99.99,8.999099999999999,108.9891,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (8,4,3,9.99,1.0,9.99,0.8991,10.889100000000001,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (9,5,5,999.99,1.0,999.99,89.9991,1089.9891,"Fri Oct 11 20:49:31 CDT 2019")

INSERT INTO Purchases VALUES (10,5,1,0.99,50.0,49.5,4.455,53.955,"Fri Oct 11 20:49:31 CDT 2019")