Project 1 Design

Use Cases:

- 1.a.) As a user, I want to add a new Product to the system.
- 1.b.) As a user, I want to add a new Product to the system without a name.
- 2.a.) As a user, I want to add a new customer into the system.
- 2.b.) As a user, I want to add an existing customer into the system.
- 3.a.) As a user, I want to add a purchase from a customer into the system.
- 3.b.) As a user, I want to add a purchase from a customer that is not in the system.

Screens:

Name: Adding a new product into the system

Steps:

Actor	System
Choose command "Add Product"	2. Display "Add Product"
Main screen:	"Add Product" screen:
Store Management System [Add Product] [Add Customer] [Add purchase]	Add Product: Product ID: Name: Price: Quantity: Vendor: Description:
	[Add] [Cancel]
Input data and click "Add" button "Add Product" screen with data	4. Hide "Add Product" screen and display "Add product successfully" screen "Product added" screen:
Add Product: Product ID: 100 Name: Apple iPhone 11 Price: 1999.99 Quantity: 10 Vendor: Apple Inc. Description: Latest version. Color: Red. [Add] [Cancel]	Product added successfully! [Ok]

5. Click on "Ok" button	6. Display "Main" screen
	Main screen:
	Store Management System
	[Add Product] [Add Customer] [Add purchase]

Name: Adding a new customer into the system

Steps:

Actor	System
Choose command "Add Customer"	2. Display "Add Customer
Main screen:	"Add Customer" screen:
Store Management System [Add Product] [Add Customer] [Add purchase]	Add Customer: Customer ID: Name: Address: Phone: Payment info:
	[Add] [Cancel]
3. Input data and click "Add" button "Add Customer" screen with data Add Customer: Customer ID: 101 Name: Bob Jones Address: 123 Auburn Ln Phone: 123-223-1234	4. Hide "Add Customer" screen and display "Add Customer successfully" screen "Customer added" screen: Customer added successfully! [Ok]
Payment info: visa 1234 [Add] [Cancel]	

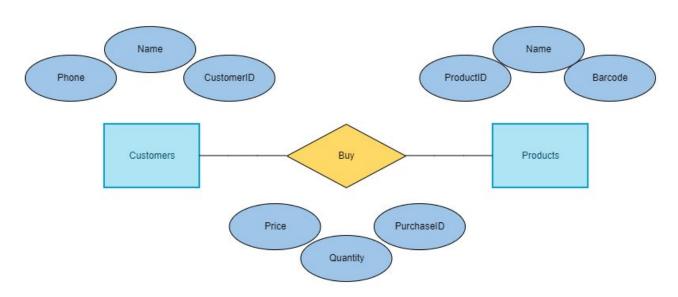
5. Click on "Ok" button	6. Display "Main" screen
	Main screen:
	Store Management System
	[Add Product] [Add Customer] [Add purchase]

Name: Adding a new purchase into the system

Steps:

Actor	System
Choose command "Add Purchase"	2. Display "Add Purchase"
Main screen:	"Add Purchase" screen:
Store Management System	Add Purchase: Purchase ID:
[Add Product] [Add Customer] [Add purchase]	Customer ID: Product ID: Quantity: Price: Total cost: Tax: Time: Date:
	[Add] [Cancel]

3. Input data and click "Add" button "Add Purchase" screen with data Add Purchase: Purchase ID: Customer ID: Product ID: Quantity: Price: Total cost: Tax: Time: Date: [Add] [Cancel]	4. Hide "Add Purchase" screen and display "Add Purchase successfully" screen "Purchase added" screen: Purchase added successfully! [Ok]
5. Click on "Ok" button	6. Display "Main" screen Main screen: Store Management System [Add Product] [Add Customer] [Add purchase]



Products(productID,Barcode, name, expiration date, price, quantity, supplier)

Customers(<u>customerID</u>,Name, address, phone, payment info)

-PurchaseID -productID

-name

-barcode

[Customers] ----- [Buy] ----- [Products]

-Quantity

-Price

-customerID -Name

-address

Purchase(purchaseID, customerID, productID, date, time, quantity, price, tax, total cost)

```
-Phone
                    -Total cost
                                 -expiration date
-Payment info
                    -Tax
                                 -price
                    -Time
                                 -quantity
                    -Date
                                 -supplier
                    -CustomerID
                    -ProductID
CREATE TABLE "Products" (
"ProductID" INTEGER NOT NULL,
"Name" TEXT.
"Barcode" INTEGER,
"ExpirationDate" INTEGER,
"Price" REAL,
"Quantity" INTEGER,
"Supplier" TEXT,
PRIMARY KEY("ProductID")
);
INSERT INTO "main". "Products" VALUES ('101', 'iPhone
10','10010111','9022021','1999.99','10','Apple Inc.');
CREATE TABLE "Customers" (
"CustomerID" INTEGER NOT NULL,
"Name" TEXT,
"Address" TEXT,
"Phone" INTEGER,
"PaymentInfo" NUMERIC,
PRIMARY KEY("CustomerID")
);
INSERT INTO "main". "Customers" VALUES('1', 'Dalton Skinner', '101 Auburn In', '5555555555',");
```

```
CREATE TABLE "Purchase" (
"PurchaseID" INTEGER NOT NULL,
"CustomerID" INTEGER,
"ProductID" INTEGER,
"Quantity" INTEGER,
"Price" REAL,
"TotalCost" NUMERIC,
"Tax" INTEGER,
"Time" REAL,
"Date" INTEGER,
PRIMARY KEY("PurchaseID")
);
INSERT INTO "main"."Purchase"
VALUES('1','1','101','1','1999.99','2025.25','58.26','1528.0','2082020');
```