User Story 1:
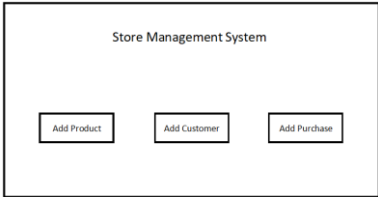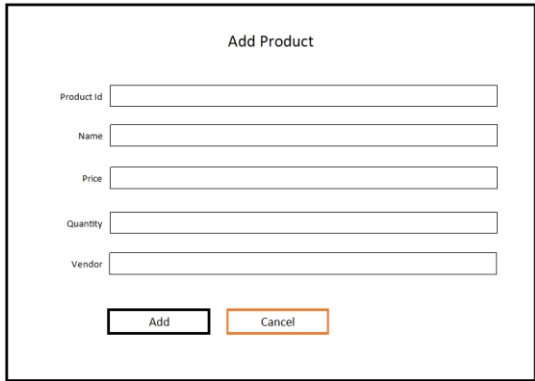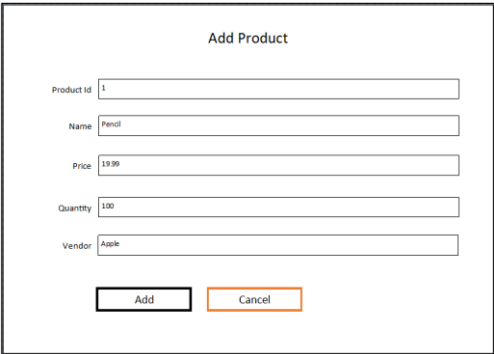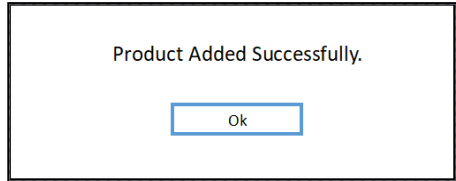
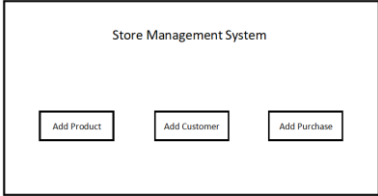As a user, I want to add a new **_Product_** into the system.

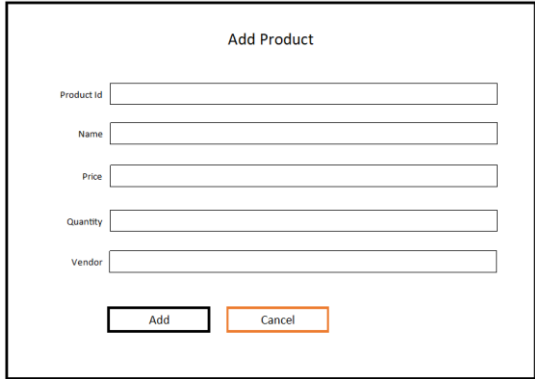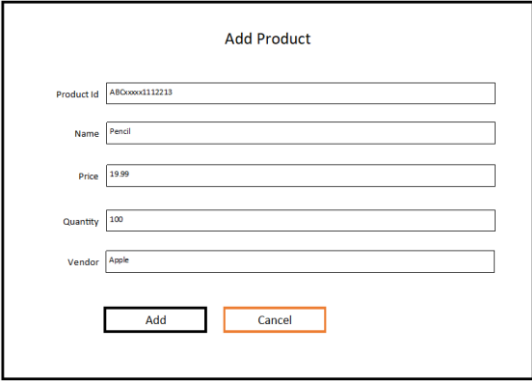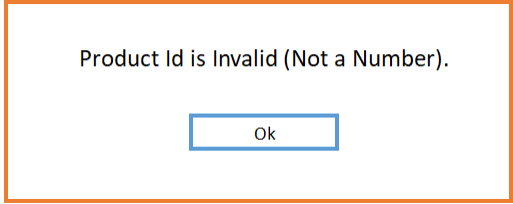Use Case 1:

User will enter data and data will be stored in database.

Actor	Action
1. Click Button "Add Product" Store Management System Add Product Add Customer Add Purchase	2. Display "Add Product" Screen Add Product Product Id _____ Name _____ Price _____ Quantity _____ Vendor _____ Add Cancel
3. Input valid data and click "Add" Add Product Product Id 1 Name Pencil Price 19.99 Quantity 100 Vendor Apple Add Cancel	4. Show confirmation box Product Added Successfully. Ok

Use Case 2:

User will enter Invalid Product ID.
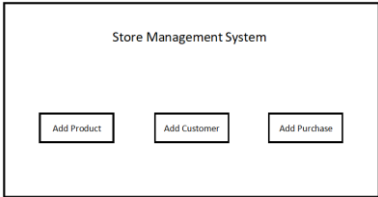
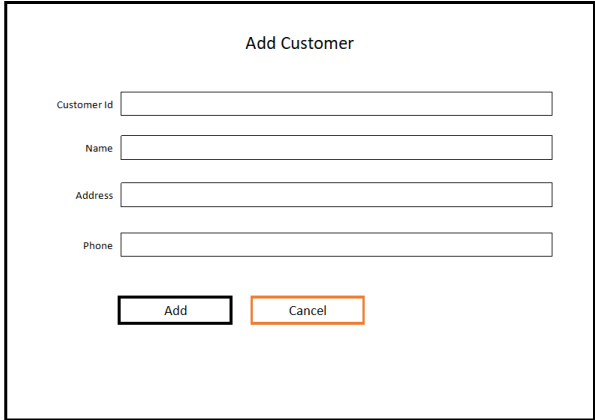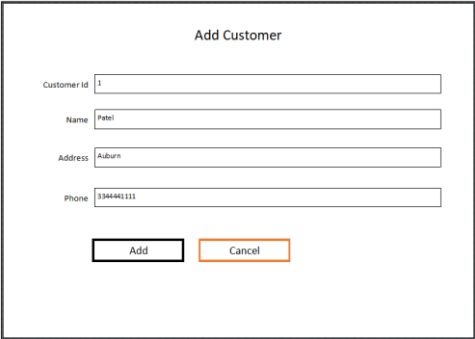| Actor	Action
1. Click Button "Add Product"	2. Display "Add Product" Screen.
3. Input Product Id and click "Add"	4. Show error box

User Story 2:

As a user, I want to add a new **_Customer_** into the system.

Use Case 1:

User will enter data and data will be stored in database.

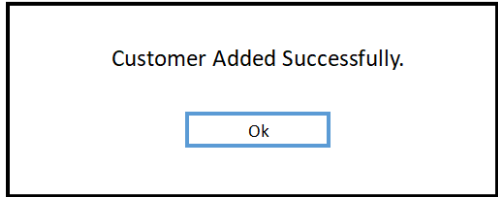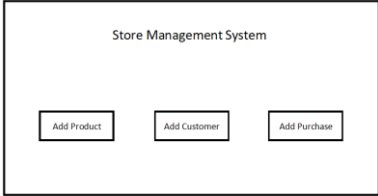| Actor	Action
1. Click Button "Add Customer"	2. Display "Add Customer" Screen
3. Input valid data and click "Add"	4. Show confirmation box

Use Case 2:

User will enter Invalid Customer Phone.

Actor	Action
1. Click Button "Add Customer"	2. Display "Add Customer" Screen
3. Input Product Id and click "Add"	4. Show error box

User Story 2:

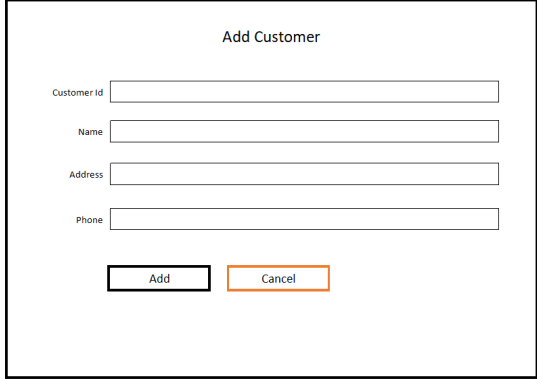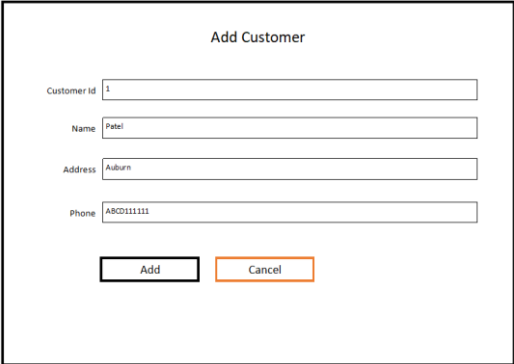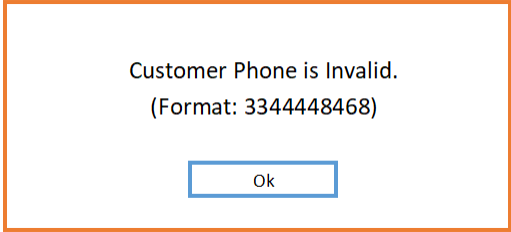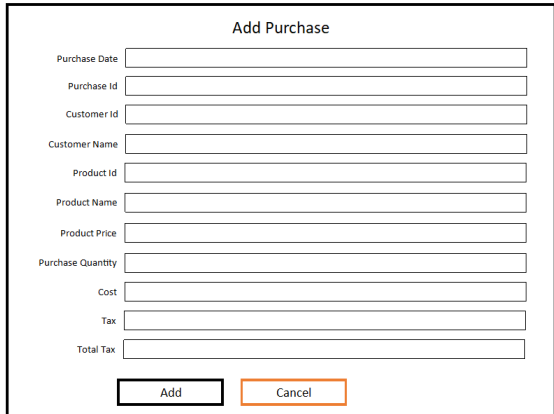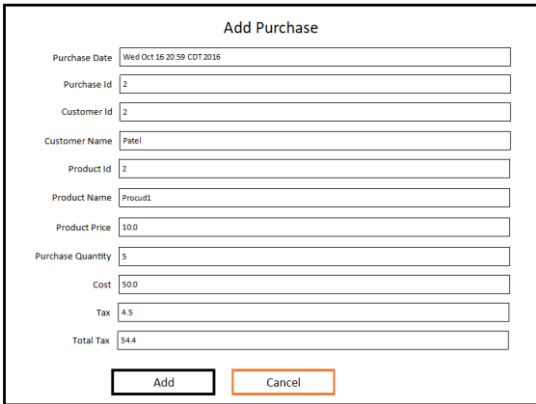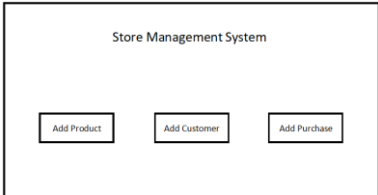As a user, I want to add a new ***Purchase*** into the system.
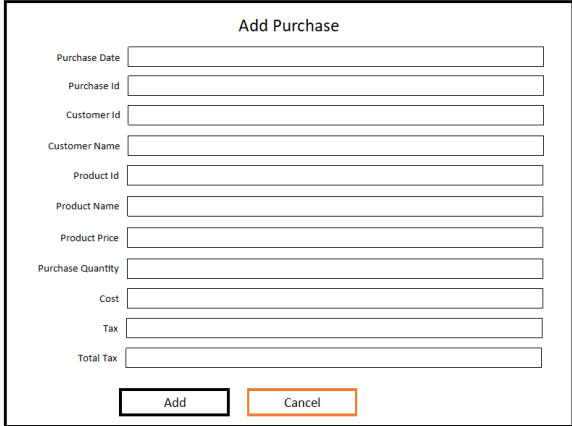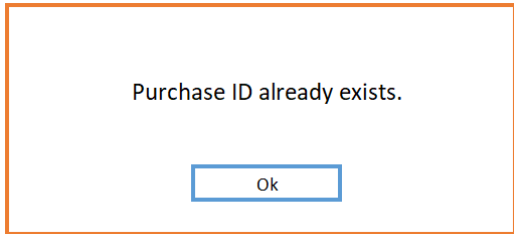
Use Case 1:

User will enter data and data will be stored in database.

Actor	Action
1. Click Button "Add Purchase"	2. Display "Add Purchase" Screen
3. Input valid data and click "Add"	4. Show confirmation box

Use Case 2:

User will enter Purchase Id that already exists.

Actor	Action
1. Click Button "Add Purchase" 	2. Display "Add Purchase" Screen
3. Input Product Id and click "Add" 	4. Show error box

Physical Database Design:

```sql
CREATE TABLE "Customers" (
        "CustomerId"  INTEGER NOT NULL,
        "Name"        TEXT DEFAULT 'Guest',
        "Phone"       INTEGER DEFAULT '(334)111-1111',
        "Address"     TEXT DEFAULT 'Auburn, AL',
        PRIMARY KEY("CustomerId")
);

CREATE TABLE "Orders" (
        "OrderId"     INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT UNIQUE,
        "CustomerId"  INTEGER NOT NULL,
        "ProductId"   INTEGER NOT NULL,
        "Quantity"    REAL DEFAULT 1,
        "Price" REAL,
        "TotalTax"    REAL,
        "TotalCost"   REAL,
        "Date" TEXT,
        FOREIGN KEY("CustomerId") REFERENCES "Customers"
);

CREATE TABLE "Products" (
        "ProductId"   INTEGER NOT NULL,
        "Name"        TEXT,
        "Price" REAL,
        "Quantity"    INTEGER,
        "Vendor"      TEXT,
        PRIMARY KEY("ProductId")
);
```