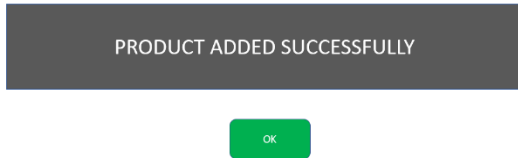


## Use Case 1

Name: Adding a New Product to the System

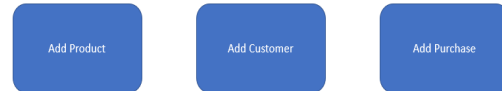
<p>1: Select “Add Product” from main menu”</p> <div data-bbox="248 548 743 741"><p>Store Management System</p><div><div>Add Product</div><div>Add Customer</div><div>Add Purchase</div></div></div>	<p>2: Open “Add Product” screen</p> <div data-bbox="847 468 1385 829"><div><div>ADD PRODUCT</div><div>Add Items</div><div>Cancel</div></div><div><div>Barcode</div><div>Name</div><div>ProductID</div><div>Expiration Date</div><div>Price</div><div>Tax Rate</div><div>Quantity</div><div>Supplier</div><div>Manufacture Date</div></div><div></div></div>
<p>3. Input data and click “add items”</p> <div data-bbox="245 1035 745 1373"><div><div>ADD PRODUCT</div><div>Add Items</div><div>Cancel</div></div><div><div>Barcode</div><div>Name</div><div>ProductID</div><div>Expiration Date</div><div>Price</div><div>Tax Rate</div><div>Quantity</div><div>Supplier</div><div>Manufacture Date</div></div><div><div>001</div><div>Eyeball Gum</div><div>1</div><div>9/9/19</div><div>3.00</div><div>0.10</div><div>50</div><div>Chucky P. Foods</div><div>1/5/19</div></div></div>	<p>4. Hide “add product” screen and display “Add Product Successfully”</p> <div data-bbox="833 1131 1393 1299"><div>PRODUCT ADDED SUCCESSFULLY</div><div>OK</div></div>

5. Click "OK" button



6. Display "main" screen

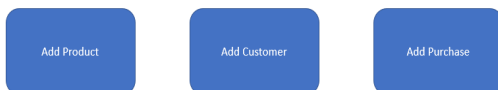
## Store Management System



Name: Adding a New Product to the System Using Empty Fields

1: Select "Add Product" from main menu"

## Store Management System



2: Open "Add Product" screen

A dark gray header bar with the text "ADD PRODUCT" in white. To the right of the header are two blue buttons: "Add Items" and "Cancel". Below the header is a list of labels on the left and corresponding input fields on the right. The labels are: Barcode, Name, ProductID (with a red underline), Expiration Date, Price, Tax Rate, Quantity, Supplier, and Manufacture Date. The input fields are gray rectangular boxes.

3. Don't input data and click "add items"

ADD PRODUCT

Add ItemsCancel

Barcode	
Name	
ProductID	
Expiration Date	
Price	
Tax Rate	
Quantity	
Supplier	
Manufacture Date	

4. Hide "add product" screen and display "Product NOT added successfully"

Product NOT added successfully

OK

5. Click "OK" button

Product NOT added successfully

OK

6. Display "main" screen

Store Management System

Add ProductAdd CustomerAdd Purchase

## Use Case 2

Name: Adding a New Customer to the System

<p>1: Select "Add Customer" from main menu</p> <div data-bbox="248 520 743 724"><p>Store Management System</p><div><div>Add Product</div><div>Add Customer</div><div>Add Purchase</div></div></div>	<p>2: Open "Add Customer" screen</p> <div data-bbox="841 478 1369 682"><div>ADD CUSTOMER</div><div><div>Add Customer</div><div>Cancel</div></div><div><div>Name</div><div>Address</div><div>CustomerID</div><div>Phone</div></div><div><div></div><div></div><div></div><div></div></div></div>
<p>3. Input data and click "add customer"</p> <div data-bbox="232 1108 760 1312"><div>ADD CUSTOMER</div><div><div>Add Customer</div><div>Cancel</div></div><div><div>Name</div><div>Address</div><div>CustomerID</div><div>Phone</div></div><div><div>Xuechao Li</div><div>37 Mullberry Highway</div><div>5</div><div>334-555-5555</div></div></div>	<p>4. Hide "add customer" screen and display "Customer Added Successfully"</p> <div data-bbox="836 1171 1388 1333"><div>PURCHASE ADDED SUCCESSFULLY</div><div>OK</div></div>

5. Click "OK" button

CUSTOMER ADDED SUCCESSFULLY

OK

6. Display "main" screen

## Store Management System

Add Product

Add Customer

Add Purchase

Name: Adding a New Customer to the System with no data at all

<p>1: Select "Add Customer" from main menu</p> <div data-bbox="248 420 742 665"><p>Store Management System</p><div><div>Add Product</div><div>Add Customer</div><div>Add Purchase</div></div></div>	<p>2: Open "Add Customer" screen</p> <div data-bbox="841 420 1369 623"><div>ADD CUSTOMER</div><div><div>Add Customer</div><div>Cancel</div></div><div><div>Name</div><div>Address</div><div>CustomerID</div><div>Phone</div></div><div><div></div><div></div><div></div><div></div></div></div>
<p>3. Input no data and click "add customer"</p> <div data-bbox="232 1050 760 1253"><div>ADD CUSTOMER</div><div><div>Add Customer</div><div>Cancel</div></div><div><div>Name</div><div>Address</div><div>CustomerID</div><div>Phone</div></div><div><div></div><div></div><div></div><div></div></div></div>	<p>4. Hide "add customer" screen and display "Customer NOT added successfully"</p> <div data-bbox="836 1108 1388 1274"><div>Customer NOT added successfully</div><div>OK</div></div>

5. Click "OK" button

Customer NOT added successfully

OK

6. Display "main" screen

## Store Management System

Add Product

Add Customer

Add Purchase

### Use Case 3

Name: Adding a New Purchase to the System

1: Select “Add Purchase” from main menu

Store Management System

Add Product Add Customer Add Purchase

2: Open “Add Purchase” screen

ADD PURCHASE

Add Purchase

Cancel

Purchase ID

ProductID

CustomerID

Date

Time

Quantity

Price

Tax

Total Cost

3. Input data and click “add purchase”

ADD PURCHASE

Add Purchase

Cancel

Purchase ID

8

ProductID

3

CustomerID

3

Date

9/4/2019

Time

8:30

Quantity

1

Price

7.00

Tax

0.70

Total Cost

7.70

4. Hide “add purchase” screen and display  
“Purchase Added Successfully”

PURCHASE ADDED SUCCESSFULLY

OK



5. Click "OK" button

PURCHASE ADDED SUCCESSFULLY

OK

6. Display "main" screen

## Store Management System

Add Product

Add Customer

Add Purchase

Name: Adding a New Purchase to the System With No Data

<div>1: Select “Add Purchase” from main menu</div> <div><div>Store Management System</div><div><div>Add Product</div><div>Add Customer</div><div>Add Purchase</div></div></div>	<div>2: Open “Add Purchase” screen</div> <div><div><div>ADD PURCHASE</div><div>Add Purchase</div><div>Cancel</div></div><div><div>Purchase ID</div><div>ProductID</div><div>CustomerID</div><div>Date</div><div>Time</div><div>Quantity</div><div>Price</div><div>Tax</div><div>Total Cost</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>
<div>3. Input no data and click “add purchase”</div> <div><div><div>ADD PURCHASE</div><div>Add Purchase</div><div>Cancel</div></div><div><div>Purchase ID</div><div>ProductID</div><div>CustomerID</div><div>Date</div><div>Time</div><div>Quantity</div><div>Price</div><div>Tax</div><div>Total Cost</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>	<div>4. Hide “add purchase” screen and display “Purchase NOT Added Successfully”</div> <div><div><div>Purchase NOT added successfully</div><div>OK</div></div></div>

5. Click "OK" button

Purchase NOT added successfully

OK

6. Display "main" screen

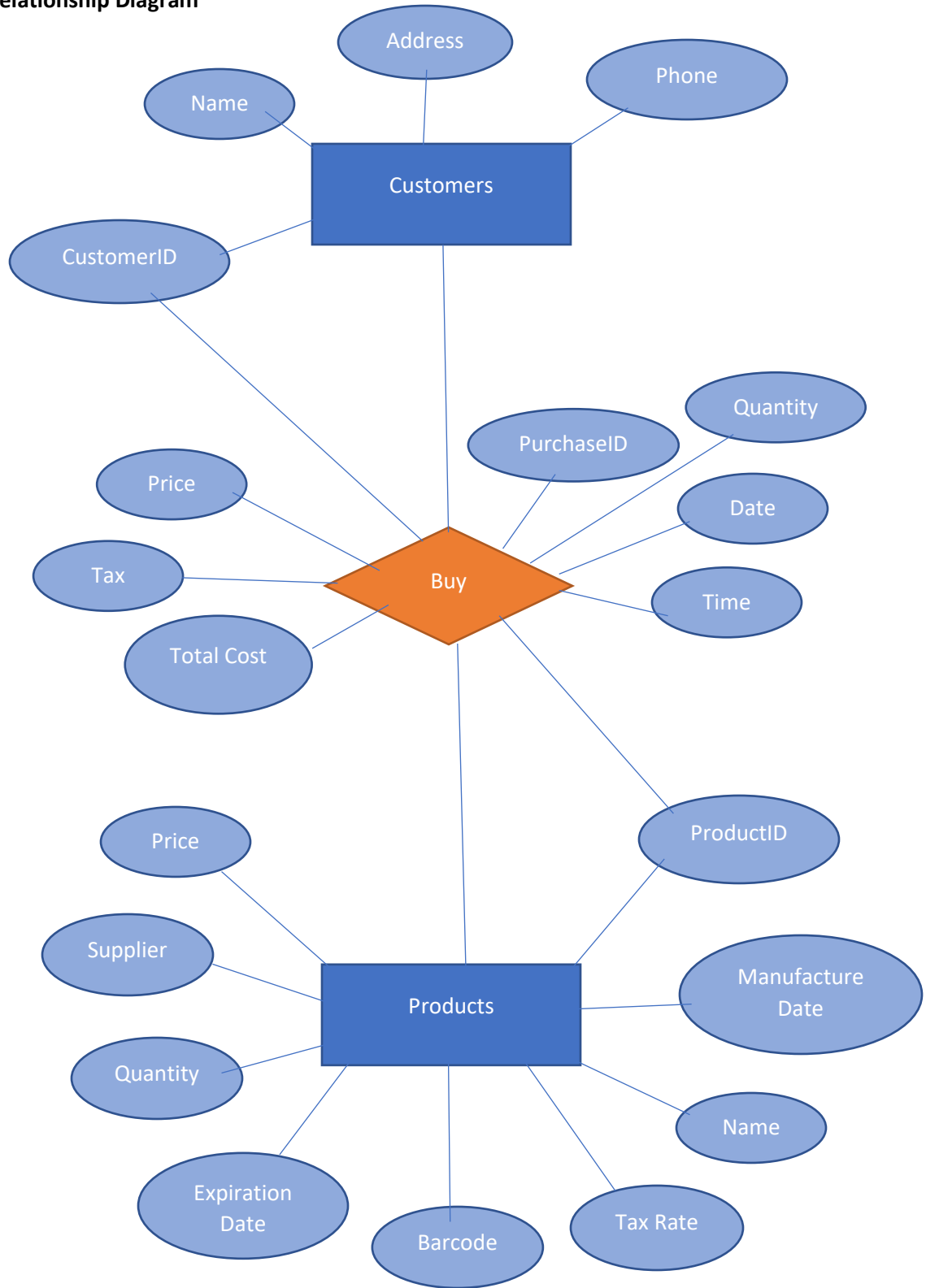
Store Management System

Add Product

Add Customer

Add Purchase

## Entity-Relationship Diagram



**Logical Design (Keys in Bold)**

Products: Barcode, Name, **ProductID**, Expiration Date, Price, Tax Rate, Quantity, Supplier, Manufacture Date

Customers: Name, Address, **CustomerID**, Phone

Relationship (Buy): **PurchaseID**, ProductID, CustomerID, Date, Time, Quantity, Price, Tax, Total Cost