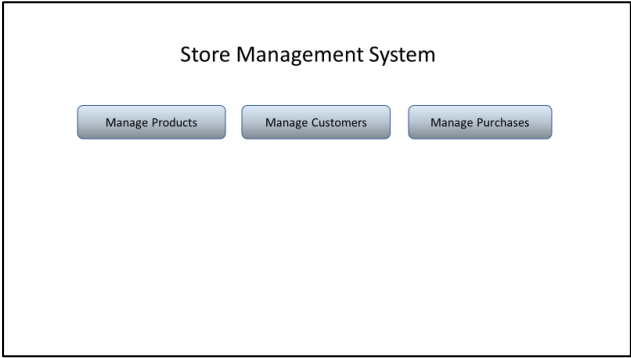

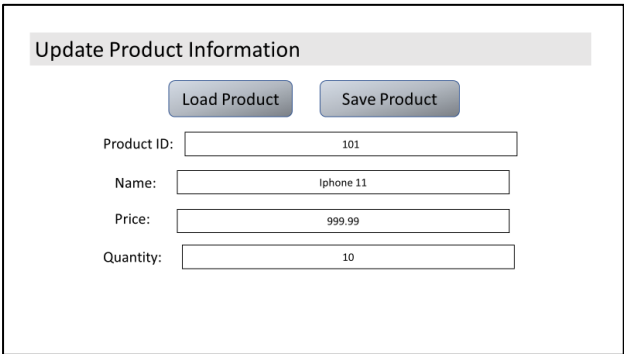


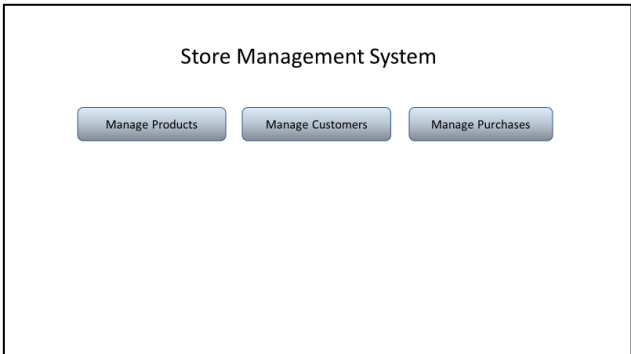




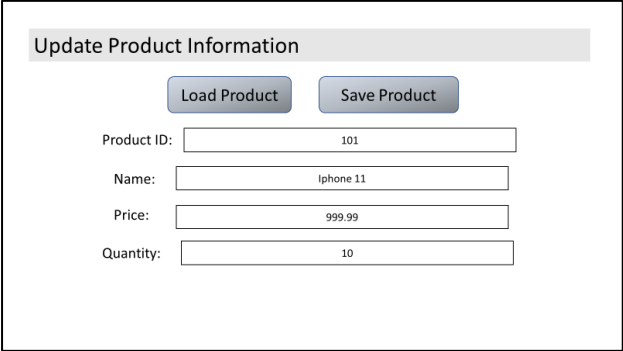



*Common Case #1:* As a user, I want to add a new product into the system. (We can do this using “Save Product” Button)

Steps:

Actor	System
<p>1. Choose command “Manage Products”</p> <p>Main Screen:</p> 	<p>2. Displays “Update Product Info” screen</p> <p>“Update Product Info” Screen:</p> 
<p>3. Input data then click “Save Product” Button</p> <p>“Update Product Info” Screen with Data:</p> 	<p>4. Display “Product is Saved Successfully”</p> <p>“Product is Saved Successfully” screen:</p> 
<p>5. Click on “OK” button</p> 	<p>6. Display Main Screen</p> 


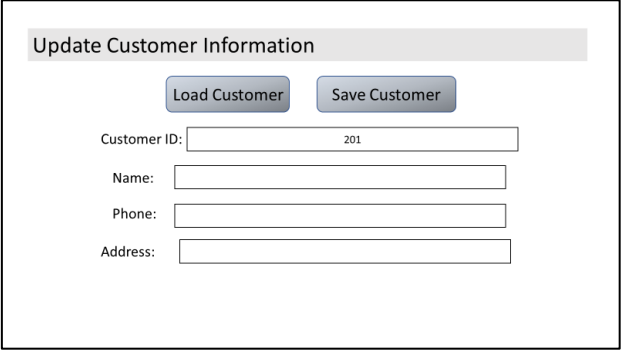
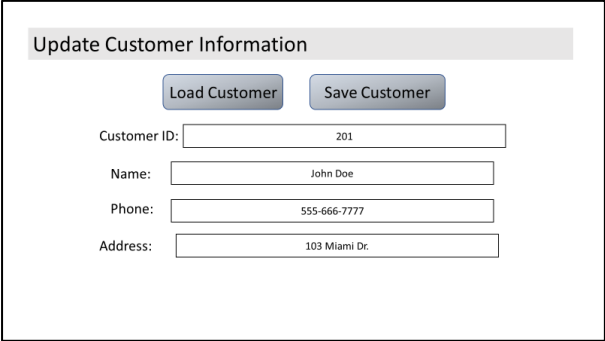
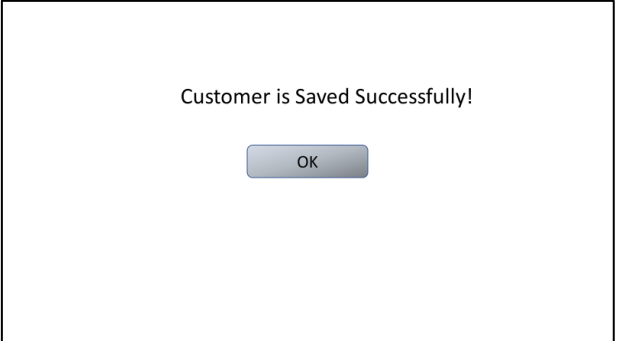
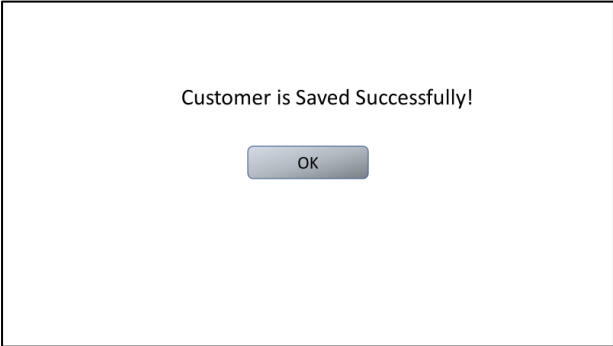

*Common Case #2:* As a user, I want to update product information (we can do this by loading and then saving a product)

Steps:


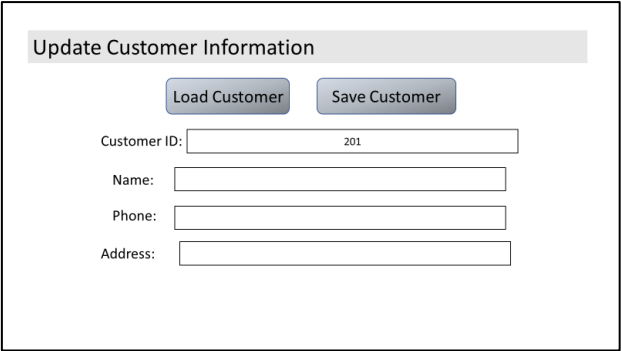
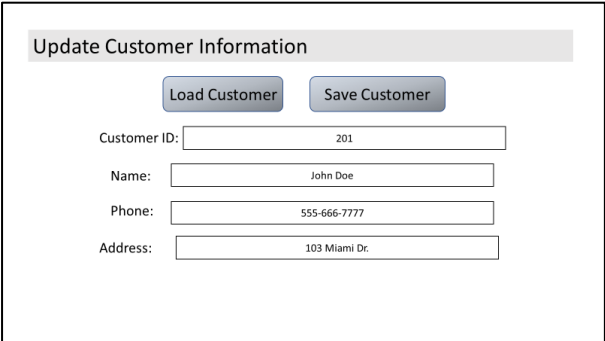
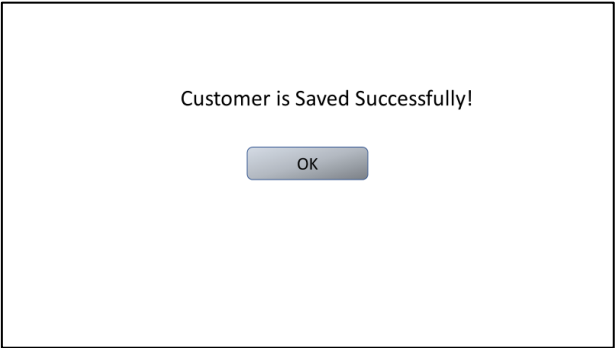
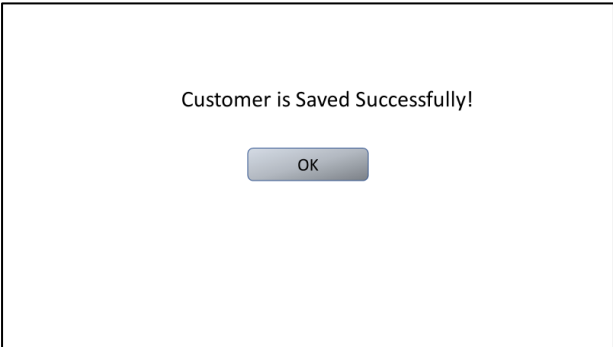
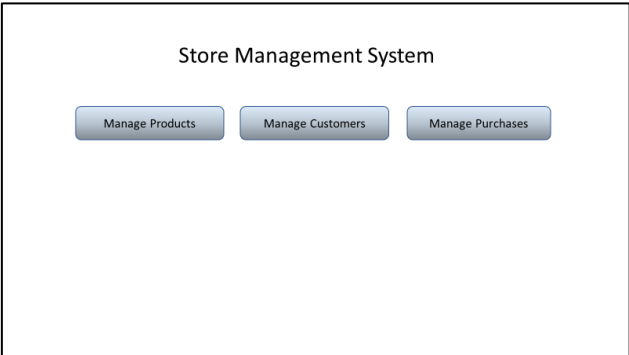
Actor	System
<p>1. Choose command “Manage Products”</p> <p>Main Screen:</p>	<p>2. Displays “Update Product Info” screen, input Product ID and press “Load Product”</p> <p>“Update Product Info” Screen:</p>
	
<p>3. Change the desired data then click “Save Product” Button</p> <p>“Update Product Info” Screen with NEW Data:</p>	<p>4. Display “Product is Saved Successfully”</p> <p>“Product is Saved Successfully” screen:</p>
	
<p>5. Click on “OK” button</p>	<p>6. Display Main Screen</p>
	

*Common Case #3:* As a user, I want to add a new customer into the system. (We can do this using “Save Customer” Button)

Steps:


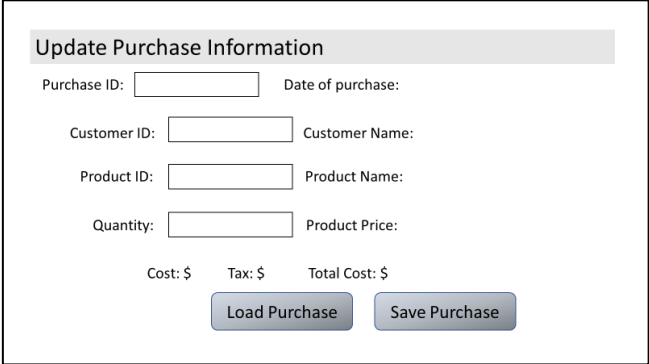
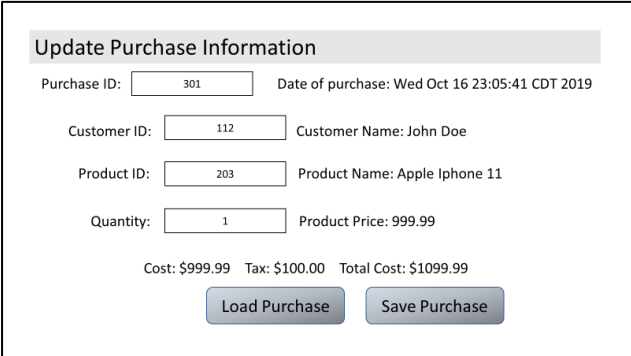
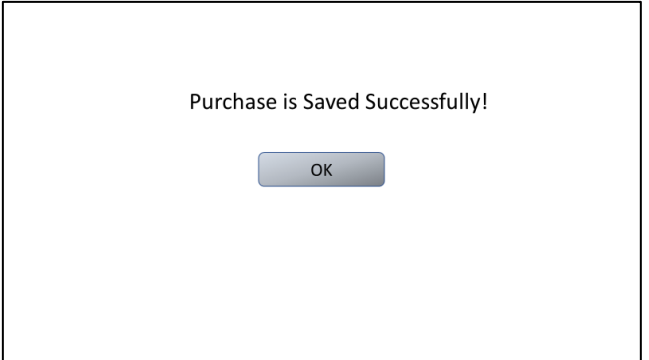
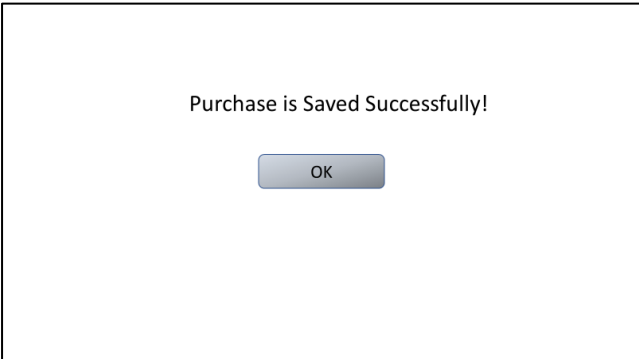
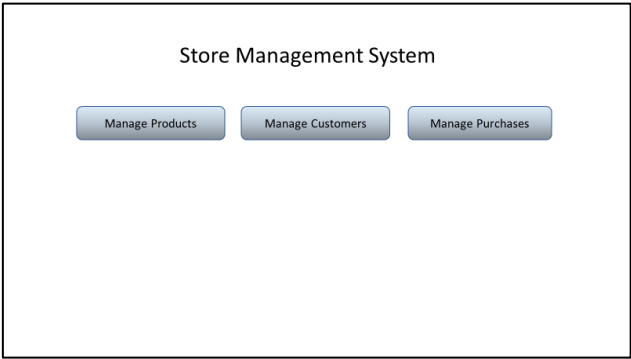
Actor	System
<p>1. Choose command “Manage Customers”</p> <p>Main Screen:</p>	<p>2. Displays “Update Customer Info” screen</p> <p>“Update Customer Info” Screen:</p>
	
<p>3. Input data then click “Save Customer” Button</p> <p>“Update Customer Info” Screen with Data:</p>	<p>4. Display “Customer is Saved Successfully”</p> <p>“Customer is Saved Successfully” screen:</p>
	
<p>5. Click on “OK” button</p>	<p>6. Display Main Screen</p>
	

*Common Case #4:* As a user, I want to update customer information (we can do this by loading and then saving a customer)

Actor	System
<p>1. Choose command “Manage Customers”</p> <p>Main Screen:</p>	<p>2. Displays “Update Customer Info” screen, input Customer ID and press “Load Customer”</p> <p>“Update Customer Info” Screen:</p>
	
<p>3. Change the desired data then click “Save Customer” Button</p> <p>“Update Customer Info” Screen with NEW Data:</p>	<p>4. Display “Customer is Saved Successfully”</p> <p>“Customer is Saved Successfully” screen:</p>
	
<p>5. Click on “OK” button</p>	<p>6. Display Main Screen</p>
	


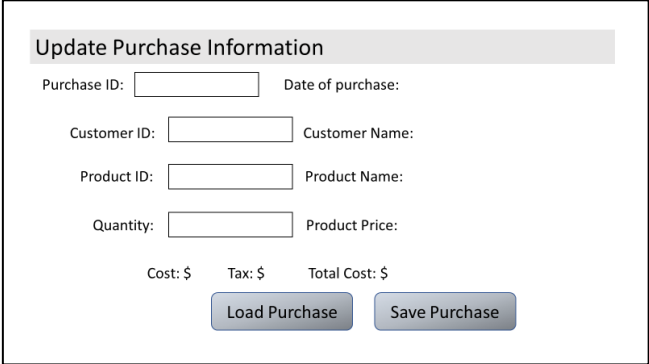
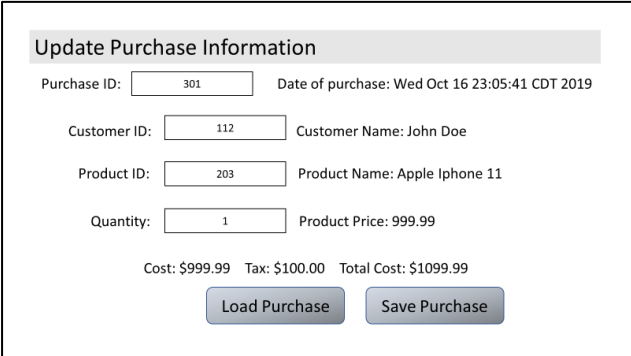
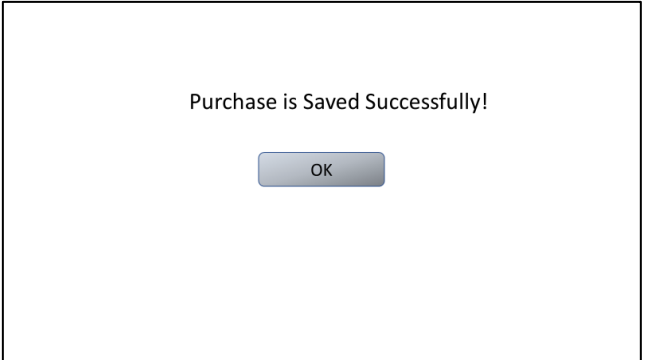
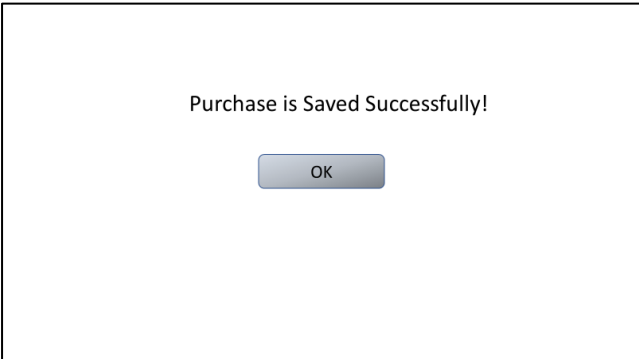
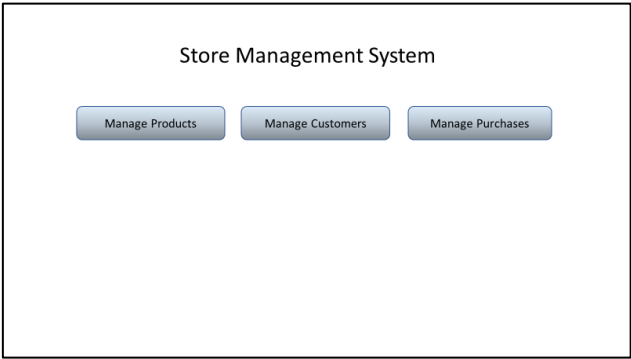
*Common Case #5:* As a user, I want to add a purchase from a customer into the system. (We can do this using “Save Purchase” Button)

Steps:

Actor	System
<p>1. Choose command “Manage Purchases”</p> <p>Main Screen:</p> 	<p>2. Displays “Update Purchase Info” screen</p> <p>“Update Purchase Info” Screen:</p> 
<p>3. Input data then click “Save Purchase” Button</p> <p>“Update Purchase Info” Screen with Data:</p> 	<p>4. Display “Purchase is Saved Successfully”</p> <p>“Purchase is Saved Successfully” screen:</p> 
<p>5. Click on “OK” button</p> 	<p>6. Display Main Screen</p> 

*Common Case #6:* As a user, I want to update purchase information (we can do this by loading and then saving a customer)

Steps:

Actor	System
<p>1. Choose command “Manage Purchases”</p> <p>Main Screen:</p>	<p>2. Displays “Update Purchase Info” screen, input Purchase ID and press “Load Purchase”</p> <p>“Update Purchase Info” Screen:</p>
	
<p>1. Change the desired data then click “Save Purchase” Button</p> <p>“Update Purchase Info” Screen with NEW Data:</p>	<p>3. Display “Purchase is Saved Successfully”</p> <p>“Purchase is Saved Successfully” screen:</p>
	
<p>4. Click on “OK” button</p>	<p>5. Display Main Screen</p>
	

## Client/Server Protocol Description

This communication system is made up of two parts: a client and a server. The two parts communicate over a computer network. The server runs a program that the client can then connect to, requiring the client to first initiate communication with the server.

Typically, the client sends a request which the server then responds to. In order to maintain this communication, the client and server must follow certain rules, or “communications protocols.” For our system, there is a server running that manages the database document, and the client communicates through a port (port 1000 in our case). The client sends requests, including the following:

- GET a product
- PUT a product
- GET a customer
- PUT a customer
- GET a purchase
- PUT a purchase

When the client sends any of these requests, the server processes the information and updates the SQL database file. For example, consider the user pressing the “Load Product” button on the graphical user interface. The client would gather the information from the GUI (ProductID) and send a GET command to the server, which the server would then process and send the product information back to the client. This process is repeated, with slight variation, for the other commands in this project.