Assignment 3

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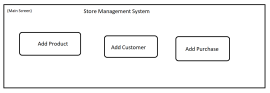
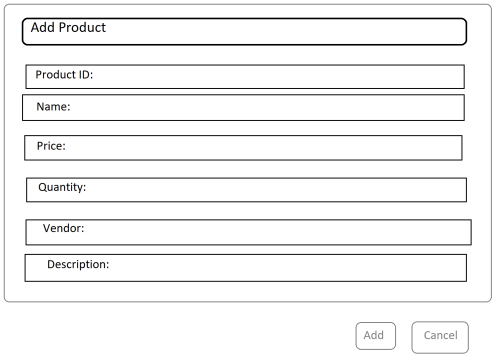
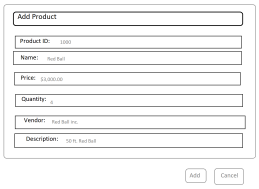
Steps:

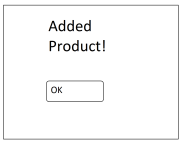
1. User Stories:

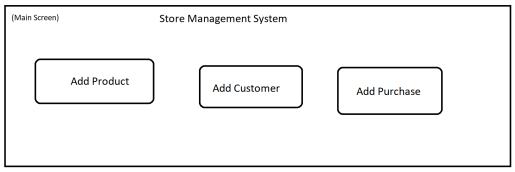
- User wants to add product: User clicks add product, user fills in information, user clicks 'OK'
- User wants to add customer: User clicks add customer, user fills in information, user clicks 'OK'
- User wants to record purchase: User clicks add purchase, user fills in information, user clicks 'OK'

2. Write Use Cases:

Actor	**System Response**
1. Choose 'Add Product' 	2. System redirects to 'Add Product Screen' 
3. Fills in data and clicks add 	4. Display 'Added Product' screen

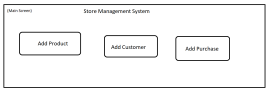
Actor	System Response
5. Click ‘OK’ Button	6. Display ‘Main’

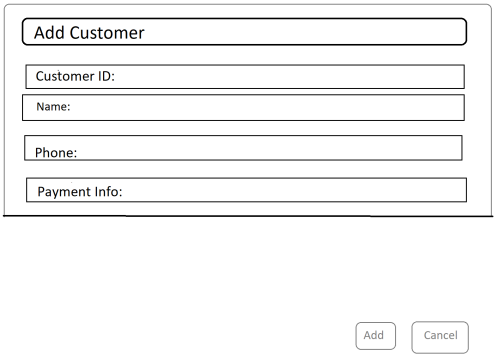


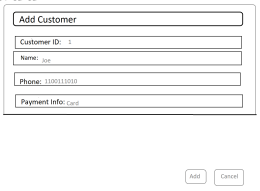


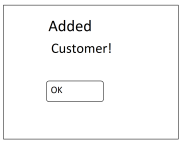
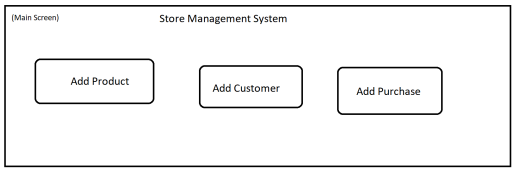
Add Customer:

Actor	System Response
1. Choose ‘Add Customer’	2. System redirects to ‘Add Customer Screen’
3. Fills in data and clicks add	4. Display ‘Added Customer’ screen

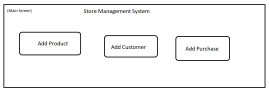
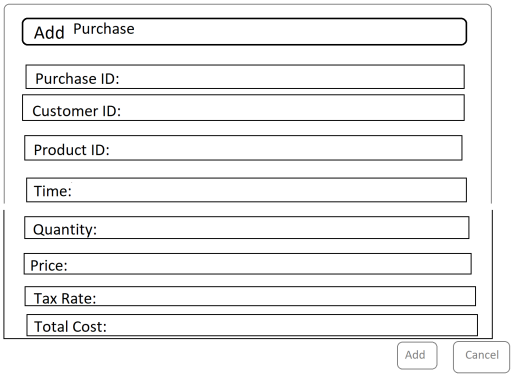
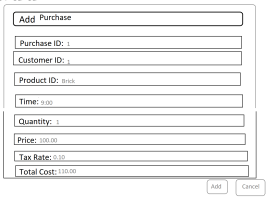
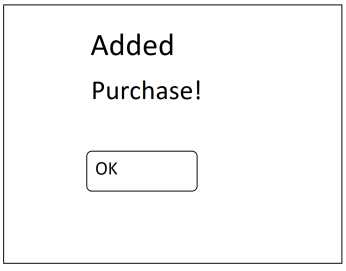


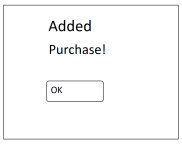
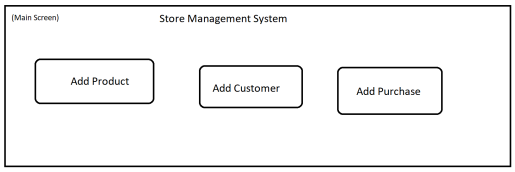




Actor	System Response
5. Click ‘OK’ Button	6. Display ‘Main’
	

Add Purchase:

Actor	System Response
1. Choose ‘Add Purchase’	2. System redirects to ‘Add Purchase Screen’
	
3. Fills in data and clicks add	4. Display ‘Added Purchase’ screen
	

Actor	System Response
5. Click ‘OK’ Button	6. Display ‘Main’
	

3.

- Products(**productid**, barcode, name, expirationdate, price, tax rate, quantity, supplier, manufactured date)
- Customers(**customerid**, name, phone, paymentinfo)
- Purchase(**purchaseid**, *customerid*,*productid*, time, quantity, price, tax, cost)

4. SQL Tables:

```
CREATE TABLE Products(
productid int not null primary key,
barcode int,
name varchar(100),
expirationdate varchar(100),
price float,
tax float,
quantity int,
supplier varchar(100),
manufacturedate varchar(100)
);

CREATE TABLE Customer(
customerid int not null primary key,
name varchar(100),
phone int,
paymentinfo varchar(100)
);
```

```
CREATE TABLE Purchase(
purchaseid int not null primary key,
customerid int,
productid int,
time varchar(100),
quantity int,
price float,
tax float,
cost float
);
```

5. SQL Insertions

```
INSERT INTO Products(productid, barcode, name, expirationdate,
price, tax, quantity, supplier, manufacturedate)
VALUES
(1,10101,"Brick","9/9/99",100.00,0.1,1,"brick co","8/9/93")
(2,10102,"Wood","9/9/99",200.00,0.1,1,"wood co","8/9/93")
(3,10103,"Metal","9/9/99",300.00,0.1,1,"Metal co","8/9/93")
(4,10104,"Glass","9/9/99",10.00,0.1,1,"Glass co","8/9/93")
(5,10105,"Rubber","9/9/99",1000.00,0.1,1,"Rubber co","8/9/93")

INSERT INTO Customer(customerid, name, phone, paymentinfo)
VALUES
(1,"Joe",1011011100,"card")
(2,"Bill",1001101100,"cash")
(3,"Fred",1001101111,"cash")
(4,"Bob",1001100000,"card")
(5,"Phil",1111100000,"card")

INSERT INTO Purchase(purchaseid, customerid, productid, time, quantity, price, tax, cost)
VALUES
(1,1,5,"3:00",1,1000.00,0.1,1100.0)
(2,1,1,"5:00",1,100.00,0.1,110.0)
(3,1,2,"8:00",1,200.00,0.1,220.0)
(4,1,5,"2:00",1,1000.00,0.1,1100.0)
(5,1,5,"2:00",1,1000.00,0.1,1100.0)
(6,2,5,"3:00",1,1000.00,0.1,1100.0)
(7,3,1,"5:00"1,100.00,0.1,110.0)
(8,5,1,"8:00",1,100.00,0.1,110.0)
(9,5,1,"2:00",1,100.00,0.1,110.0)
(10,5,5,"1:00",1,1000.00,0.1,1100.0)
```