## Assignment #5 (A5)

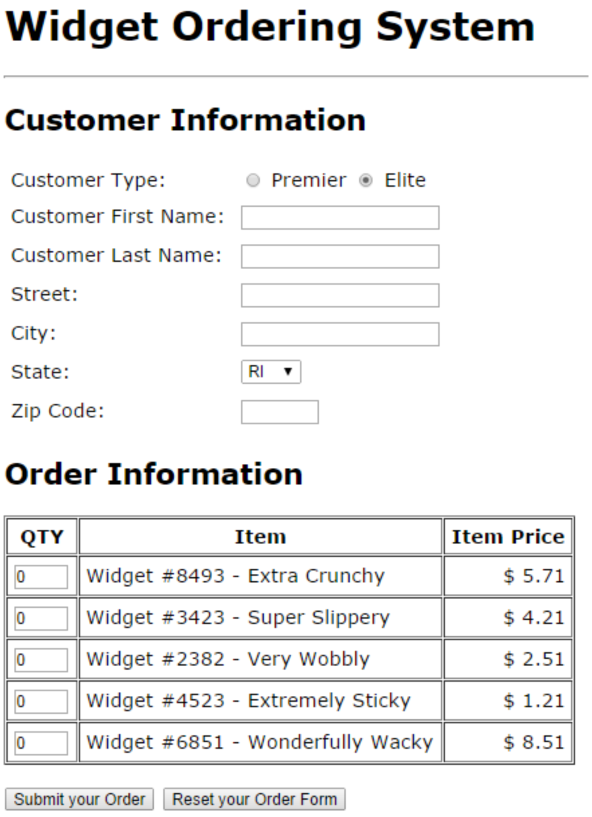
| | |
|---|---|
| Due: | Tuesday, November 26, 2019 (11:59PM) |
| Purpose: | Practice working with PHP /MySQL interactions to create web applications |
| Allowed Resources: | Lecture notes/handouts, Course Textbook and Reference Guides<br>[Reminder: All assignments are individual work. Please contact me with any questions.] |
| Submission: | Submit your form.php and process.php files to Sakai by the due date.<br>[Late penalties apply per syllabus.] |

In this assignment you will create a simplified online ordering system that uses a database to track customers and orders. You will re-use some of your code from A1. The user will enter information into the form elements and then hit submit. After submission, the processing page (process.php) will receive the user's data and enter the customer/order into the database. The processing page also displays summaries of all orders stored in the DB.

The simple database used to store the customer/order information has already been created for you and is available on Sakai (store.sql). You will see that one customer and one order is already created for you. These INSERT statements might be helpful when you are creating the process.php file for Part 2.

### Part 1: Modify your form.php

Using your PHP file from Assignment #1 as a starting point, remove the order summary portion of the page and set the ACTION of your form to process.php. (You may want to refer to the code that you removed when working on Part 2.)



# Widget Ordering System

## Customer Information

| | |
|---|---|
| Customer Type: | ○ Premier ● Elite |
| Customer First Name: | |
| Customer Last Name: | |
| Street: | |
| City: | |
| State: | RI ▾ |
| Zip Code: | |

## Order Information

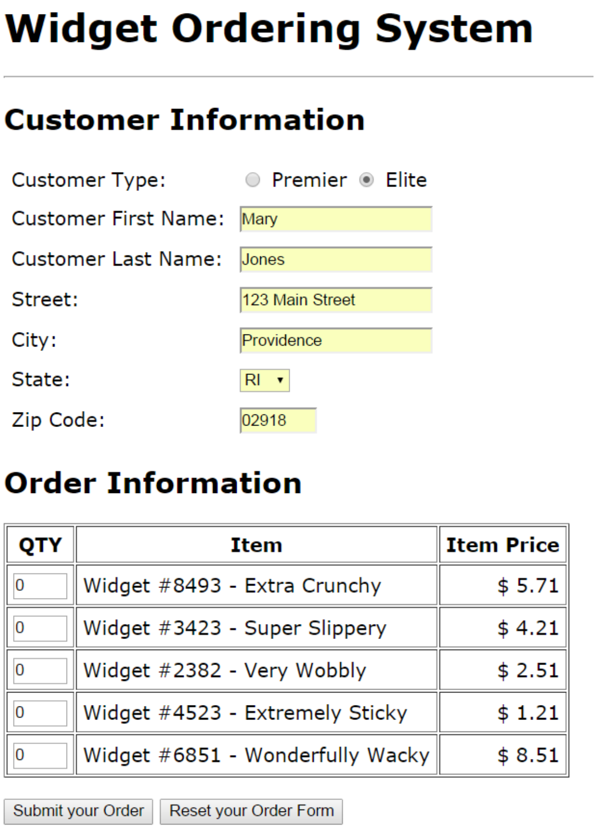
| QTY | Item | Item Price |
|---|---|---|
| 0 | Widget #8493 - Extra Crunchy | $ 5.71 |
| 0 | Widget #3423 - Super Slippery | $ 4.21 |
| 0 | Widget #2382 - Very Wobbly | $ 2.51 |
| 0 | Widget #4523 - Extremely Sticky | $ 1.21 |
| 0 | Widget #6851 - Wonderfully Wacky | $ 8.51 |

## Part 2: Processing Form Data (process.php)

In this part of the assignment, you will create a new php file that receives the customer's order and stores the relevant information in the database. Your code should do the following:

1. Check to see if the customer is already stored in the customers table of the database. In order to check this, you will only have to compare the customer's first name, last name, and zip code to existing customers. (For simplicity, we will assume that all customers in the database have unique values for this combination of attributes.)
   a. If the customer is already in the database, your code should say "Welcome back FIRSTNAME".
   b. If the customer is not already in the database, you should add the customer to the table and then display "Welcome to our store FIRSTNAME! We have added you to our customer database."
2. During the customer check/add process you should find and store the customer ID number (cid).
3. Now that you have the customer ID, you will enter the entire order into the database.
   a. You will need to store values for all attributes in the orders table (including calculating the final total).
   b. The NOW( ) function can be used for the order date. (See store.sql for its usage.)
4. When the order is successfully stored in the database, you should display "Thank you. Your order was submitted successfully!".
5. You will now create two tables that display information about ALL orders in the database. (See screenshots.)
   a. The first table shows the total number of each widget sold and the total sales for those items. When calculating the total sales for each item, you do NOT have to take into account discounts for Elite customers.
   b. The second table shows all orders stored in the database sorted in descending order by the order number. It should display: the order number, order date, customer's name (first & last in same cell), and final total.

<u>Example Order Process for a NEW Customer:</u>



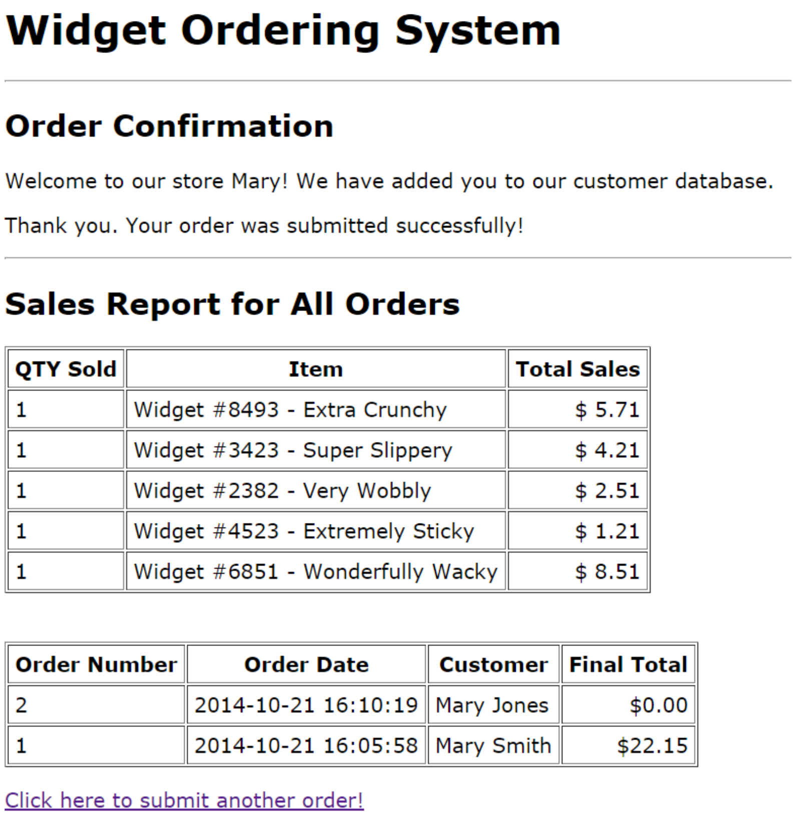
# Widget Ordering System

## Customer Information

| | |
|---|---|
| Customer Type: | ○ Premier ● Elite |
| Customer First Name: | Mary |
| Customer Last Name: | Jones |
| Street: | 123 Main Street |
| City: | Providence |
| State: | RI ▾ |
| Zip Code: | 02918 |

## Order Information

| QTY | Item | Item Price |
|---|---|---|
| 0 | Widget #8493 - Extra Crunchy | $ 5.71 |
| 0 | Widget #3423 - Super Slippery | $ 4.21 |
| 0 | Widget #2382 - Very Wobbly | $ 2.51 |
| 0 | Widget #4523 - Extremely Sticky | $ 1.21 |
| 0 | Widget #6851 - Wonderfully Wacky | $ 8.51 |



# Widget Ordering System

## Order Confirmation

Welcome to our store Mary! We have added you to our customer database.

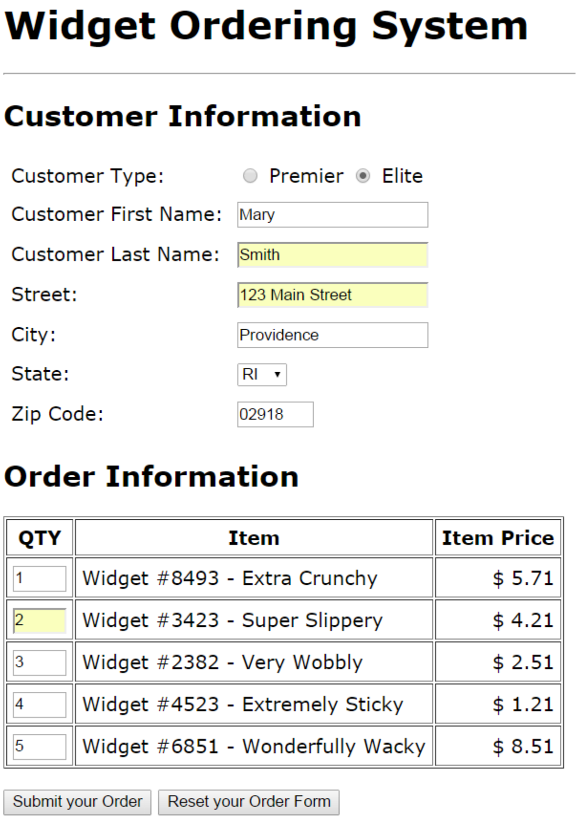
Thank you. Your order was submitted successfully!

## Sales Report for All Orders

| QTY Sold | Item | Total Sales |
|---|---|---|
| 1 | Widget #8493 - Extra Crunchy | $ 5.71 |
| 1 | Widget #3423 - Super Slippery | $ 4.21 |
| 1 | Widget #2382 - Very Wobbly | $ 2.51 |
| 1 | Widget #4523 - Extremely Sticky | $ 1.21 |
| 1 | Widget #6851 - Wonderfully Wacky | $ 8.51 |

| Order Number | Order Date | Customer | Final Total |
|---|---|---|---|
| 2 | 2014-10-21 16:10:19 | Mary Jones | $0.00 |
| 1 | 2014-10-21 16:05:58 | Mary Smith | $22.15 |

## Example Order Process for an EXISTING Customer:



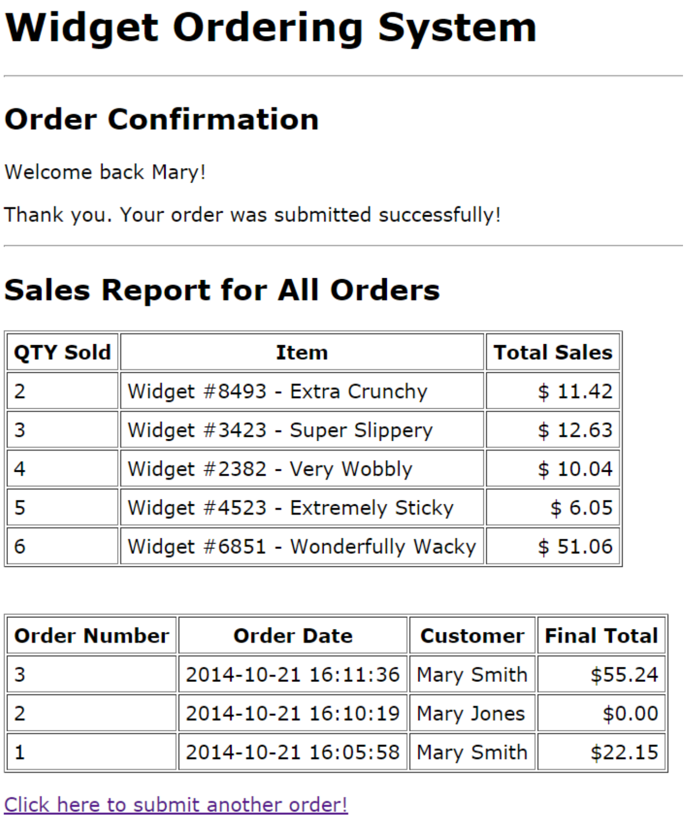
# Widget Ordering System

## Customer Information

| | |
|---|---|
| Customer Type: | ○ Premier ● Elite |
| Customer First Name: | Mary |
| Customer Last Name: | Smith |
| Street: | 123 Main Street |
| City: | Providence |
| State: | RI |
| Zip Code: | 02918 |

## Order Information

| QTY | Item | Item Price |
|---|---|---|
| 1 | Widget #8493 - Extra Crunchy | $ 5.71 |
| 2 | Widget #3423 - Super Slippery | $ 4.21 |
| 3 | Widget #2382 - Very Wobbly | $ 2.51 |
| 4 | Widget #4523 - Extremely Sticky | $ 1.21 |
| 5 | Widget #6851 - Wonderfully Wacky | $ 8.51 |



# Widget Ordering System

## Order Confirmation

Welcome back Mary!

Thank you. Your order was submitted successfully!

## Sales Report for All Orders

| QTY Sold | Item | Total Sales |
|---|---|---|
| 2 | Widget #8493 - Extra Crunchy | $ 11.42 |
| 3 | Widget #3423 - Super Slippery | $ 12.63 |
| 4 | Widget #2382 - Very Wobbly | $ 10.04 |
| 5 | Widget #4523 - Extremely Sticky | $ 6.05 |
| 6 | Widget #6851 - Wonderfully Wacky | $ 51.06 |

| Order Number | Order Date | Customer | Final Total |
|---|---|---|---|
| 3 | 2014-10-21 16:11:36 | Mary Smith | $55.24 |
| 2 | 2014-10-21 16:10:19 | Mary Jones | $0.00 |
| 1 | 2014-10-21 16:05:58 | Mary Smith | $22.15 |

Click here to submit another order!

Database Setup File (store.sql) for Reference:

```
GRANT ALL ON STORE.* TO 'root'@'localhost';
DROP DATABASE STORE;
CREATE DATABASE STORE;
USE STORE;

CREATE TABLE  customers
(
      cid          INT          AUTO_INCREMENT,
      cfname       TEXT         NOT NULL,
      clname       TEXT         NOT NULL,
      cstreet      TEXT         NOT NULL,
      ccity        TEXT         NOT NULL,
      cstate       CHAR(2)      NOT NULL,
      czip         CHAR(5)      NOT NULL,
      ctype        TEXT         NOT NULL,
      PRIMARY KEY (cid)
);

INSERT INTO customers VALUES
(NULL,'Mary','Smith','123 Main Street','Providence', 'RI', '02918', 'Premier');
```

```
CREATE TABLE      orders
(
      orderno     INT                 AUTO_INCREMENT,
      cid         INT                 NOT NULL,
      qty_8493    INT                 NOT NULL,
      qty_3423    INT                 NOT NULL,
      qty_2382    INT                 NOT NULL,
      qty_4523    INT                 NOT NULL,
      qty_6851    INT                 NOT NULL,
      orderdate   DATETIME            NOT NULL,
      fprice      DECIMAL(10,2)       NOT NULL,
      PRIMARY KEY (orderno),
      FOREIGN KEY (cid) REFERENCES customers(cid)
);

INSERT INTO orders VALUES
(NULL,1,1,1,1,1,1,NOW(),22.15);
```