



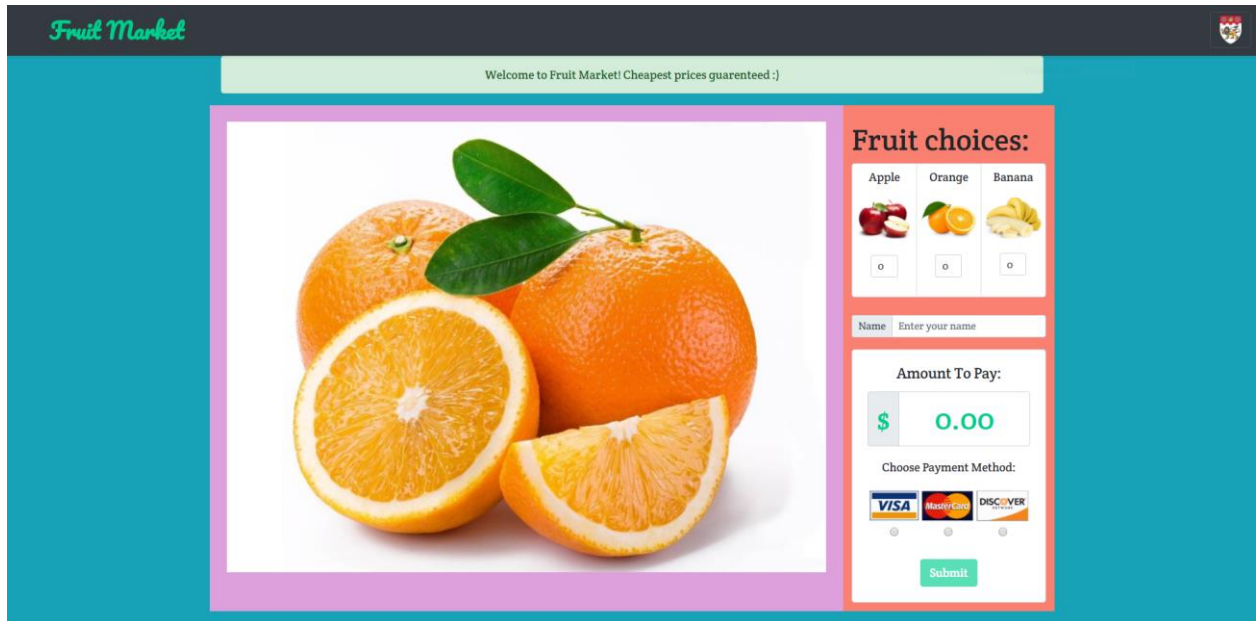
CZ3006: Net Centric Computing
Assignment 2

Shantanu Sharma
U1622895F (TS2)

COMPUTER SCIENCE

SCHOOL OF COMPUTER ENGINEERING
NANYANG TECHNOLOGICAL UNIVERSITY

Design description:



The screenshot shows a web application titled "Fruit Market" with a dark header. A light green banner below the header reads "Welcome to Fruit Market! Cheapest prices guaranteed :)". The main content area has a teal background. On the left, a large image shows several oranges, one of which is sliced. On the right, a red-bordered box contains the "Fruit choices:" section. This section has three columns for "Apple", "Orange", and "Banana", each with a fruit image and a quantity input box (currently showing "0"). Below these is a "Name" input field with the placeholder "Enter your name". Underneath is the "Amount To Pay:" section, which displays a green "\$" symbol and "0.00". Below this is the "Choose Payment Method:" section, featuring three radio buttons with logos for "VISA", "MasterCard", and "DISCOVER". The "VISA" option is selected. At the bottom of the red box is a green "Submit" button.

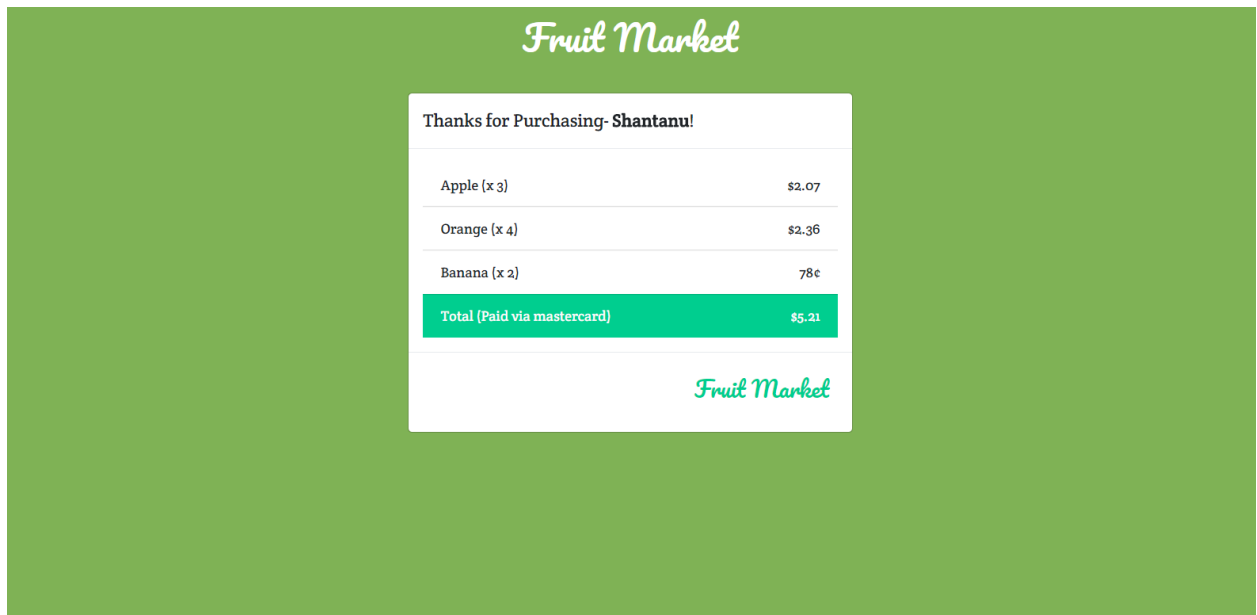
HTML file

The design in this HTML file is aesthetically created. The fruits available are shown in the right-side column and when the user hovers above the card (example: apple) then the image shown on the right is replaced by that of the fruit hovering above. The user can then enter the quantity he wishes to order for that particular fruit. At least one fruit must be ordered in order to place an order. Whenever the user clicks the input box for the fruit, the text "Fruit choices:" is replaced by the cost of the fruit (Example: Apple @69 cents".The non-editable text box below the table will update the total cost accordingly. If the user enters anything besides a positive whole number, the text box will display prompt, indicating that the total cost cannot be calculated because at least one value in the three textboxes above does not contain a positive whole number.

A text box is placed at the bottom of the form for the user to enter his name, which is mandatory.

The user will then need to select the mode of payment. "The radio button 'Visa' will be selected by default. Only one mode of payment can be selected.

Once ready, the user can click on "Submit" to proceed with the order. Any errors made will be shown and the user will need to make changes accordingly before the order is placed.



PHP file

Once the user clicks on the submit button, he will be brought to the next page, which is the PHP. Here, the details of the order will be shown. The user's name will be displayed on top. Next, the quantity and total price of each fruit ordered, the mode of payment and the total price the user has to pay will be shown in a table.

Listing

index.html

index.php

Code description

HTML file

In the HTML file, the user will place his order. The file will check if the numbers entered in quantity are integers else it will display “not a valid input” message. If the user enters a valid value, the text box will show the total price of the fruits, rounded to 2 decimal place via `updateAmount()`. Entering all valid value will also enable the submit button again via `enableButton()` function.

The user must input his name before proceeding. An order should consist of the name of the person who placed it. If no name is detected, the user won't be able to click the submit button. This is checked by the function `validateName()`.

The user must also order at least one fruit. Otherwise, it would be an empty order. If no fruit(s) is ordered, the user will be prompted to order at least one fruit when he clicks the submit button. This is checked by the function `validateForm()`.

PHP file

In the PHP file, values passed from the HTML form will be received. The total price of the fruits will be calculated again here. Then, the name of the user, quantities and prices of the respective fruits ordered, mode of payment and total price of all fruits ordered will be displayed.

The number of fruits every user orders will be accumulated and stored into a text file. The file will be opened and read line by line. Each line will be replaced by “”, except for numbers. The numbers will then be converted into integers and summed with the quantities of the current order, before it is written back into the file.

HTML codes:

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4 <!-- Required meta tags -->
5 <meta charset="utf-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8 <!-- Bootstrap CSS -->
9 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css" integrity="
sha384-9gVQ4dYFwwMSjIDZnLEWnxCjeSWFphJiwGPXr1jddIh0egiu1Fw05qRgvFX0dJZ4" crossorigin="anonymous">
10
11 <link href="https://fonts.googleapis.com/css?family=Crete+Round|Pacifico" rel="stylesheet">
12
13 <title>Shantanu | U1622895F</title>
14 </head>
15 <body class="bg-info" style="font-family: 'Crete Round', serif;">
16 <div class="pos-f-t">
17 <div class="collapse" id="navbarToggleExternalContent">
18 <div class="bg-dark p-4">
19 <div class="row">
20 <div class="col-sm">
21 <h5 id="student-info" class="text-primary h3">Shantanu Sharma</h5>
22 <span class="text-light h5">U1622895F</span>
23 </div>
24 <div class="col-sm" style="text-align: right;">
25 <h2 class="text-light h2">CZ3006: Net Centric Computing- TS2</h2>
26 <span class="text-light h3">Assignment 2</span>
27 </div>
28 </div>
29 </div>
30 </div>
31 </div>
32 <nav class="navbar navbar-dark bg-dark sticky-top shadow-sm p-2 mb-0">
33 <a class="navbar-brand" href="#"><b style="color: #00ce8f; font-family: 'Pacifico', cursive; font-size: 30px; padding: 50px">Fruit
Market</b></a>
34 <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarToggleExternalContent" aria-controls="
navbarToggleExternalContent" aria-expanded="false" aria-label="Toggle navigation">
35 <a href="#student-info"></a>
36 </button>
37 </nav>
38 </div>
39
40 <div class="container">
41 <div id="welcome-msg" class="alert alert-success" role="alert" style="text-align: center">
42 Welcome to Fruit Market! Cheapest prices guarenteed :)
43 </div>
44 </div>
45
46
47 <div class="container" style="margin-bottom: 50px">
48 <div class="row">
49 <div class="col-sm-9" style="padding: 2%; background-color: plum">
50 <div id="carouselExampleFade" class="carousel slide carousel-fade" data-ride="carousel">
51 <div class="carousel-inner">
52 <div id="apple-img" class="carousel-item active">
53 
54 </div>
55 <div id="orange-img" class="carousel-item">
56 
57 </div>
58 <div id="banana-img" class="carousel-item">
59 
60 </div>
61 </div>
62 <a class="carousel-control-prev" href="#carouselExampleFade" role="button" data-slide="prev">
63 <span class="carousel-control-prev-icon" aria-hidden="true"></span>
64 <span class="sr-only">Previous</span>
65 </a>
66 <a class="carousel-control-next" href="#carouselExampleFade" role="button" data-slide="next">
67 <span class="carousel-control-next-icon" aria-hidden="true"></span>
68 <span class="sr-only">Next</span>
69 </a>
70 </div>
71 </div>
72 <div class="col-sm-3" style="background-color: salmon; padding: 1%; padding-top: 2%" >
73 <form action="index.php" method="POST">
74 <h1 id="product-name" >Fruit choices:</h1>
75 <div class="card-group">
76 <div class="card" style="padding: 2%" onmouseover="$($('.carousel').carousel(0);$($('.carousel').carousel('pause'));">
77 <p style="text-align: center">Apple</p>
78 
79 <div class="card-body">
80 <input type="text" class="form-control form-control-sm" id="apple-qty" name="apple-qty" placeholder="0" value="
0" oninput="updateAmount(this.value);enableButton()" onblur="if(this.value==''){this.value=0;updateAmount(0);};
enableButton();" onfocus="$($('.carousel').carousel(0);$($('.carousel').carousel('pause'));highlightOn('apple'))"
>
81 </div>
82 </div>
83 <div class="card" style="padding: 2%" onmouseover="$($('.carousel').carousel(1);$($('.carousel').carousel('pause'));">
```



```

166 ▼ function validateName(inputName) {
167     if (inputName.match(validNameRegex)){
168         document.getElementById("input-alert").className = "alert alert-danger collapse";
169         nameValid = true;
170     }
171     else {
172         document.getElementById("input-alert").className = "alert alert-danger";
173         nameValid = false;}
174 }
175 ▼ function updateAmount(inputCheck) {
176     document.getElementById("welcome-msg").className = "alert alert-success collapse";
177     Let appleAmount = document.getElementById("apple-qty").value;
178     Let orangeAmount = document.getElementById("orange-qty").value;
179     Let bananaAmount = document.getElementById("banana-qty").value;
180
181     if (!(parseInt(inputCheck)-inputCheck == 0) || (inputCheck < 0)){
182         document.getElementById("total-amount").value = "NaN";
183         document.getElementById("input-alert").className = "alert alert-danger";
184         validPrice = false;}
185     else {
186         document.getElementById("total-amount").value = "$"+(((appleAmount*applePrice+orangeAmount*orangePrice+bananaAmount*bananaPrice
187             )/100).toFixed(2));
188         document.getElementById("input-alert").className = "alert alert-danger collapse";
189         validPrice = true;}
190 }
191 ▼ function enableButton() {
192     if (validPrice && payMethodSelected && nameValid){document.getElementById("submit-button").disabled = false;}
193     else {document.getElementById("submit-button").disabled = true;}}
194 }
195
196 ▼ function highlightOn(param){
197     if (param == "apple") {
198         document.getElementById("product-name").innerHTML = "Apple @ $0.69";
199     } else if (param == "orange") {
200         document.getElementById("product-name").innerHTML = "Orange @ $0.59";
201     } else {
202         document.getElementById("product-name").innerHTML = "Banana @ $0.39";
203     }
204 }
205
206 </script>
207 </body>
208 </html>

```

PHP Codes:

```
<?php if(!isset($_SESSION)) { session_start(); } ?>
<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css" integrity="sha384-9gVQ4dYfWwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIhOegiu1Fw05qRgvFX0dJZ4" crossorigin="anonymous">

<link href="https://fonts.googleapis.com/css?family=Crete+Round|Pacifico" rel="stylesheet">

<title>Shantanu Sharma | U1622895F</title>
</head>
<body style="background-color: #f7fb255; font-family: 'Crete Round', serif;">
<h1 style="text-align: center; color: white; font-family: 'Pacifico', cursive; font-size: 40px; padding: 10px">Fruit Market</h1>
<?php if(isset($_POST) && (isset($_POST['submit']) && $_POST['submit'] == "Submit")) { ?>
<?php
    $total = $_POST['apple-qty'] * 69 + $_POST['orange-qty'] * 59 + $_POST['banana-qty'] * 39;

    try {
        $orderFile = fopen("order.txt", "r");
        $appleQty = (int)substr(fgets($orderFile), 24, -1);
        $orangeQty = (int)substr(fgets($orderFile), 25, -1);
        $bananaQty = (int)substr(fgets($orderFile), 25, -1);
        fclose($orderFile);
        $orderFile = fopen("order.txt", "w");
        fwrite($orderFile, "Total number of apples: " . (string)($appleQty) . "\nTotal number of oranges: " . (string)($orangeQty) . "\nTotal number of bananas: " . (string)($bananaQty) . "\n");
        fclose($orderFile);
    } catch (Exception $e) {
        $orderFile = fopen("order.txt", "a");
        $order = "Total number of apples: " . (string)($appleQty) . "\nTotal number of oranges: " . (string)($orangeQty) . "\nTotal number of bananas: " . (string)($bananaQty) . "\n";
        fwrite($orderFile, $order);
        fclose($orderFile);
    }
}

?>
<div >
    <div class="modal-dialog" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 style="text-align: center; color: white; font-family: 'Pacifico', cursive; font-size: 25px; padding: 10px">Thanks for Purchasing- <b><?php echo !isset($_POST['name']) ? "Anonymous" : $_POST['name']; ?></b></h5>
            </div>
            <div class="modal-body">
                <ul class="list-group list-group-flush">
                    <li class="list-group-item">
                        <div class="row">
                            <div class="col-sm">
                                Apple (x <?php echo ($_POST['apple-qty']) ?>)
                            </div>
                            <div class="col-sm" style="text-align: right;">
                                <?php echo ($_POST['apple-qty'] * 69) < 100 ? ($_POST['apple-qty'] * 69) . "&#162;" : '&#36;' . number_format(($_POST['apple-qty'] * 69)/100, 2); ?>
                            </div>
                        </div>
                    </li>
                    <li class="list-group-item">
                        <div class="row">
                            <div class="col-sm">
                                Orange (x <?php echo ($_POST['orange-qty']) ?>)
                            </div>
                            <div class="col-sm" style="text-align: right;">
                                <?php echo ($_POST['orange-qty'] * 59) < 100 ? ($_POST['orange-qty'] * 59) . "&#162;" : '&#36;' . number_format(($_POST['orange-qty'] * 59)/100, 2); ?>
                            </div>
                        </div>
                    </li>
                    <li class="list-group-item">
                        <div class="row">
                            <div class="col-sm">
                                Banana (x <?php echo ($_POST['banana-qty']) ?>)
                            </div>
                            <div class="col-sm" style="text-align: right;">
                                <?php echo ($_POST['banana-qty'] * 39) < 100 ? ($_POST['banana-qty'] * 39) . "&#162;" : '&#36;' . number_format(($_POST['banana-qty'] * 39)/100, 2); ?>
                            </div>
                        </div>
                    </li>
                    <li class="list-group-item" style="background-color: #00ce8f; color: snow">
                        <div class="row">
                            <div class="col-sm">
                                Total (Paid via <?php echo $_POST['pay-method']; ?>)
                            </div>
                            <div class="col-sm" style="text-align: right;">
                                <?php echo $total > 0 && $total < 100 ? $total . "&#162;" : '&#36;' . number_format($total/100, 2); ?>
                            </div>
                        </div>
                    </li>
                </ul>
            </div>
            <div class="modal-footer">
                <h5 style="text-align: center; color: #00ce8f; font-family: 'Pacifico', cursive; font-size: 25px; padding: 10px">Fruit Market</h5>
            </div>
        </div>
    </div>
</div>
<?php } ?>
</body>
</html>
```