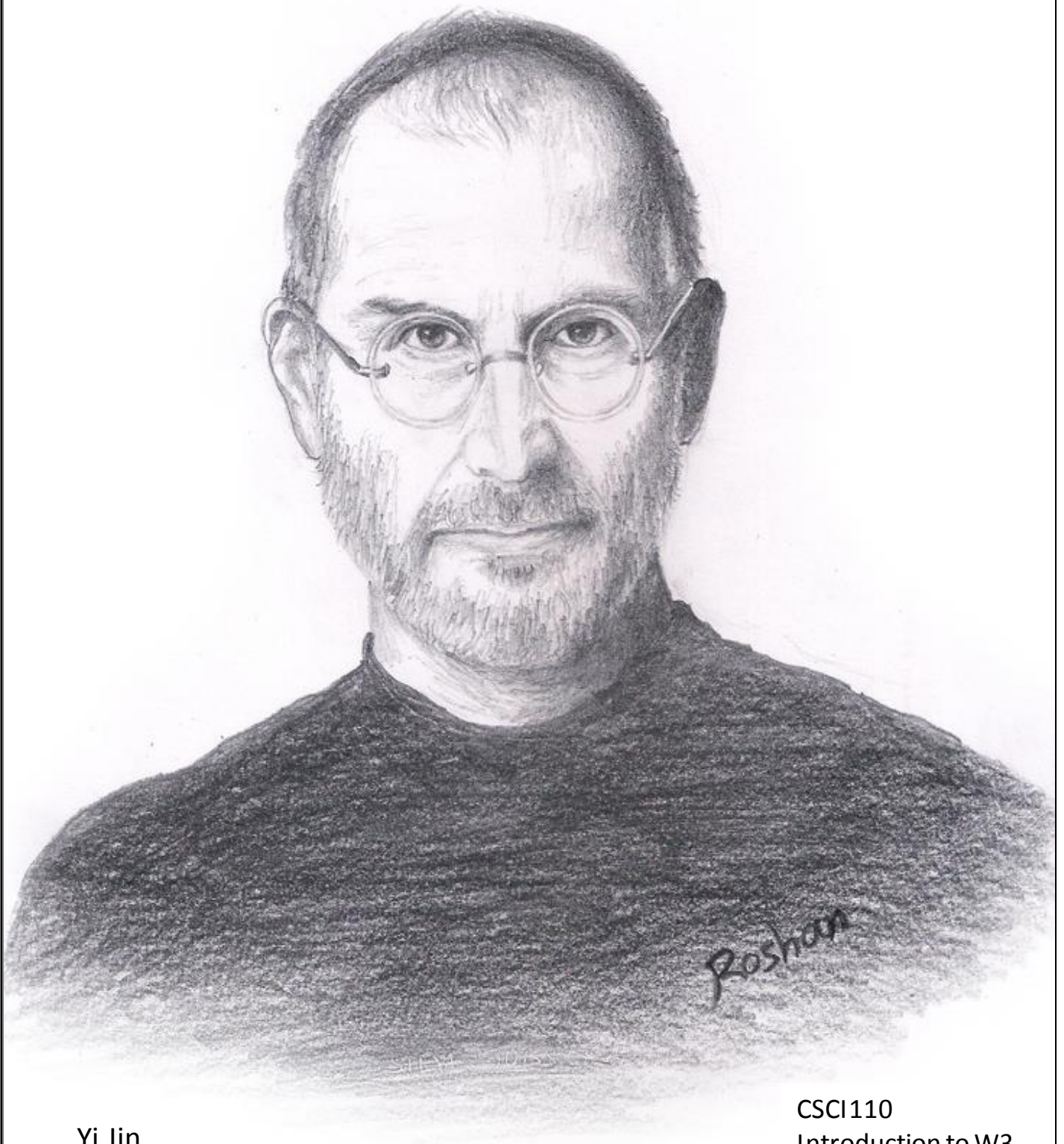# Assignment 3 Report

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CSCI110
Introduction to W3
Technologies Spring
Session 2013
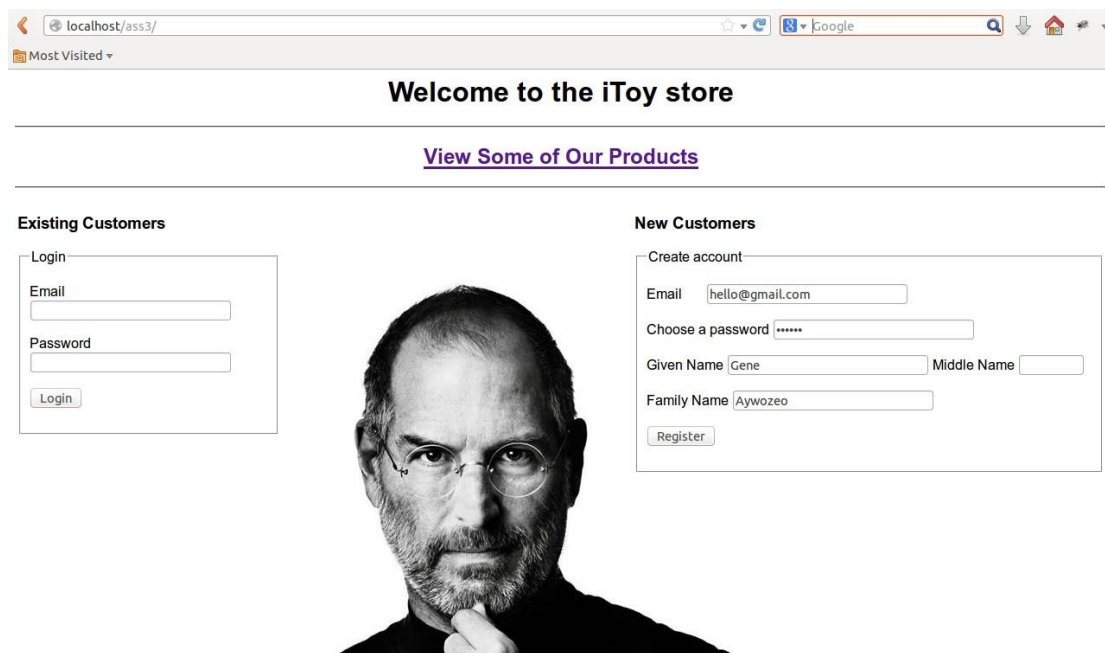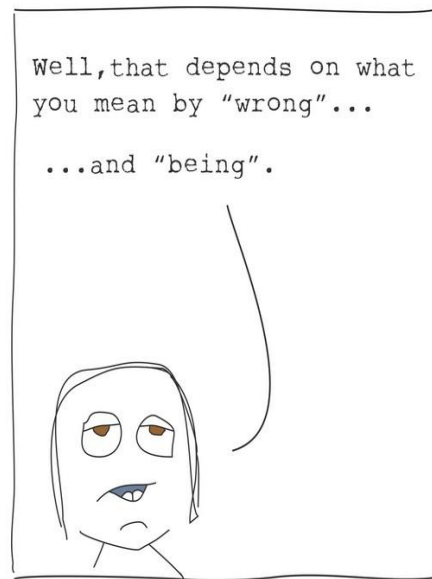
Table of Contents

1. Overview

iToy.com, Inc. is an American international multibillion dollar electronic commerce company with headquarters in Seattle, Washington, United States, which is subsidiaries of apple Inc. It is the world's largest online retailer. iToy.com started as an online toy store, but soon diversified, selling clothes, cups, and some other related goods about apple products. The company also produces consumer electronics—notably the iPad e-book reader and the Mac book—and is a major provider of cloud computing services.

2. Demonstration of working site

(The index page of iToy Store)

Incorrect Email or Password!!!

(Error page if the exist customer input incorrect email or password)

Gene, Welcome to iToys !!!

Please provide at least one valid address for us to deliver toys that you have chosen.

Address line 1 [14/1 Steve Road]
Address line 2 [ ]
City [Sydney]
State [NSW ‡]
Postcode [2455]
[Record my address]

(More information for new customer page)

Buy from the iToy Store

Welcome Yi

Highlighted items are currently discounted !!!

(Product.php page the goods with red frame are discounted)

Welcome Yi

"I Love Steve Jobs T-Shirt"

Soft against your skin yet durable enough for everyday wear, this earth-friendly tee looks great and helps save the planet.

Normally $875.50, now on special at $50!!!

Buy,Buy,Buy ！！！ Number 21

(One of detailed product from user choosing)
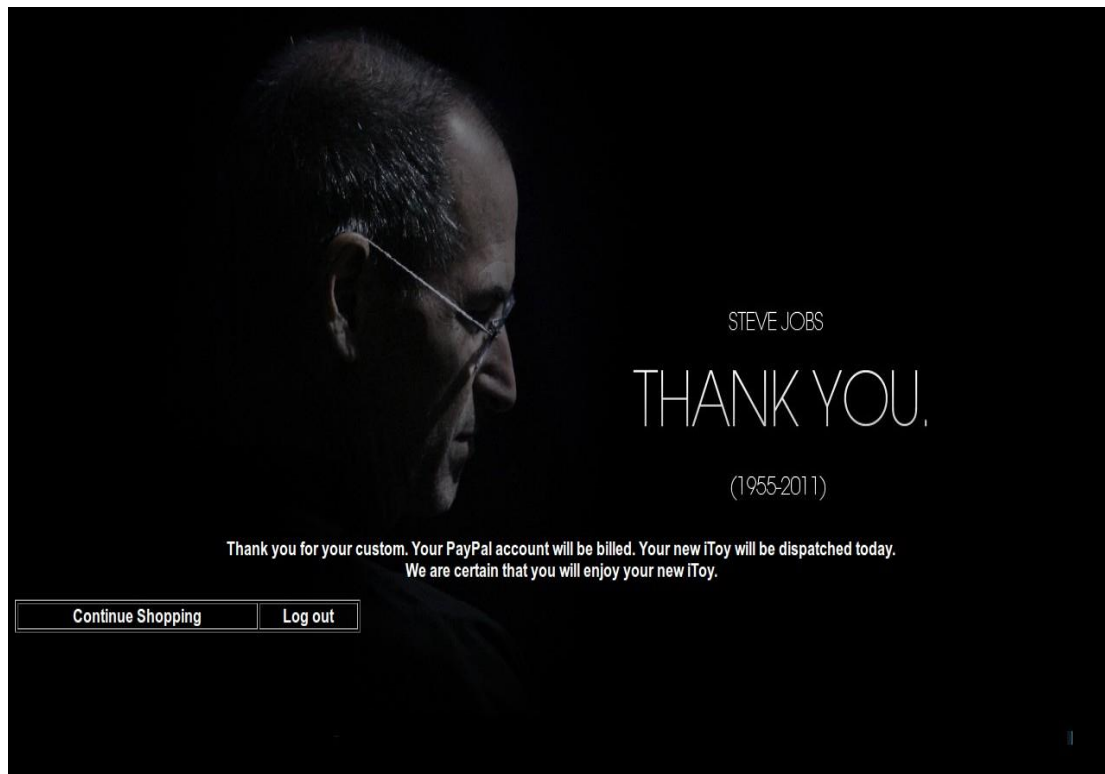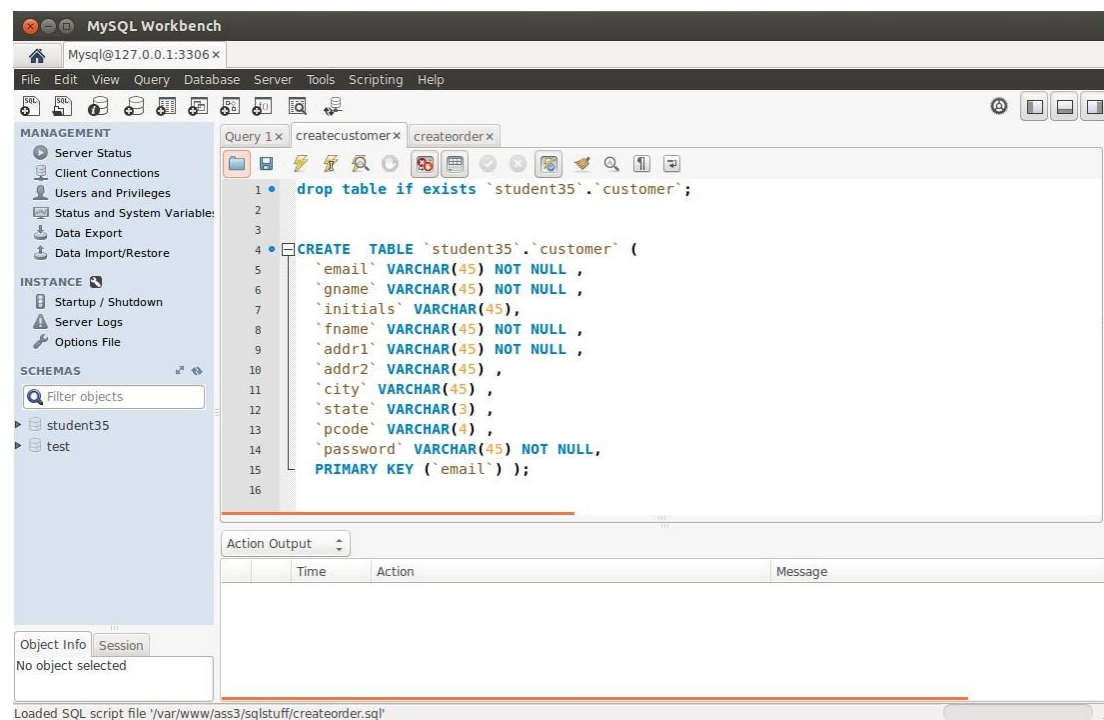
(Successfully submit the order request for that T-shirt)

(When user logged out, the page displayed)

3. Database aspects

For this assignment, we need three tables for storing information of goods, customer and orders. By given the SQL script of building the table of itoyproducts, the rest two of tables should be created at the same way (I have learned how to use SQL).

(Create customer table SQL script)

(Create order table SQL script)

(All information from customers and new customer included by request

from the webpage).

(All information for orders created by customers)

4. Netbeans Project Summary
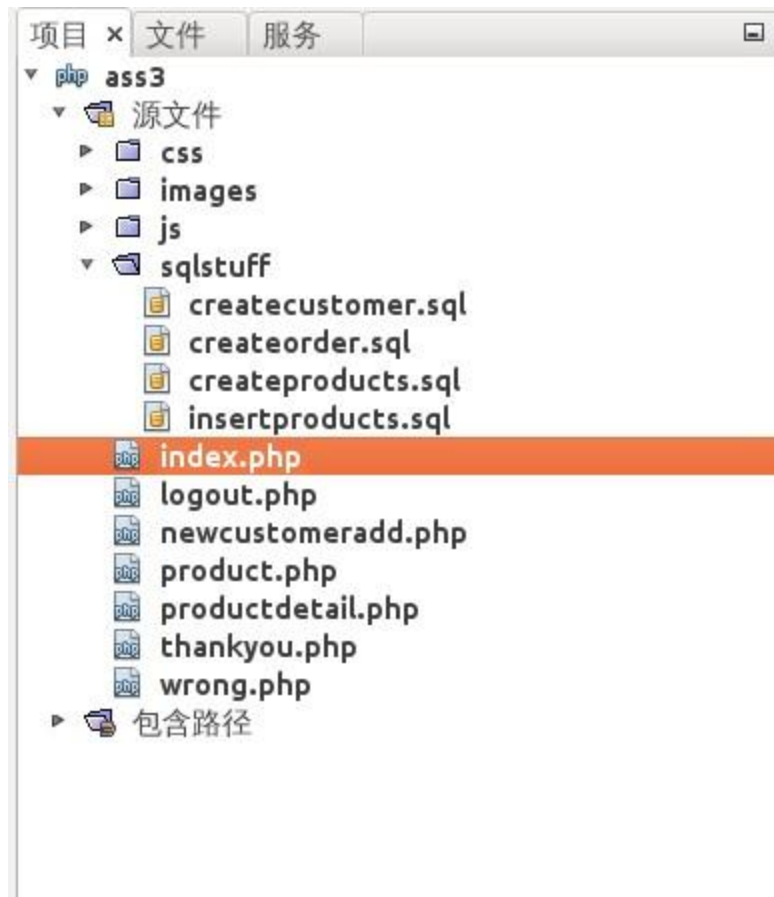
These are all necessary web page and elements (images, JavaScript, SQL

scripts and CSS) for running the iToy store.

5. Structured presentation of code

/var/www/ass3/css/css.css

```css
1  /* CSS Document */
2  body {
3
4      font-family: 'Arial',Times,serif;
5
6        background-color: #ffffff;
7  }
8
```

(CSS file for iToy store)

Clear and categorised information and layout is better and easier way for user to look the website. For this website, in order to meet the style of apple, I used the simplest way for each page and some of page may have additional CSS style for its own purpose.

(JavaScript file for iToy store)

JavaScript is mainly used for checking the correct format of information for user input when adding the new customer for both index.php and newcustomeradd.php so that they will be inserted into database correctly.

```php
1   <?php
2       global $log;
3
4       $log=false;
5     function connectToMySQL()
6     {
7       $dbcon=new mysqli('localhost','root','123456','student35');
8     if(mysqli_connect_errno())
9     {
10        $problem=  mysqli_connect_error();
11        die($problem);
12        exit;
13    }
14     return $dbcon;
15    }
16    function showForm()
17    {
18      $script=$_SERVER['PHP_SELF'];
19      echo <<<HEAD
20     <html>
21      <title>iToys</title>
22        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
23        <link href="css/css.css" rel="stylesheet" type="text/css">
24        <script type="text/javascript" src="./js/check.js"></script>
25        </head>
26        <body background="images/index.jpg">
27        <h1 align="center">Welcome  to the iToy store</h1>
28        <hr/>
29        <h2 align="center"><a  href="product.php">View  Some  of Our Products</a></h2>
30        <hr/>
31        <table width="310" border="0" align="left">
32          <tr>
33           <td width="228">
34          <form name="old" action="$script" method="POST">
35          <h3>Existing  Customers</h3>
36          <fieldset>
37          <legend align="left">Login</legend>
38            <p>
39          <label for="email">Email</label>
40             
41              
```

```
42                     
43                <input type="text" name="email" id="email">
44                 </p>
45               <p>
46           <label for="password">Password</label>
47              <input type="password" name="password"
id="password">
48               </p>
49            <p>
50            <input type="submit" name="Login" id="Login"
value="Login">
51                </p>
52               </fieldset>
53             </form></td>
54               </tr>
55               </table>
56           <table width="550" border="0" align="right">
57  <tr>
58   <td><form name="new" action="newcustomeradd.php"
method="POST" onclick="return confirmSubmit();" >
59 <h3>New Customers</h3>
60 <fieldset >
61 <legend align="left">Create  account</legend>
62 <p>
63   <label for="email">Email</label>
64    
65    
66    
67   <input type="text" name="nemail" id="nemail">
68  </p>
69  <p>
70   <label for="password">Choose a password</label>
71   <input type="password" name="npassword" id="npassword">
72  </p>
73  <p>Given Name
74   <label for="gname"></label>
75   <input type="text" name="gname" id="gname">
76  Middle Name
77 <label for="mname"></label>
78 <input type="text" name="mname" id="mname" style="width:15%">
79  </p>
80  <p>
81   Family Name
82   <label for="fname"></label>
```

```
83    <input type="text" name="fname" id="fname">
84   </p>
85   <p>
86    <input type="submit" name="Register" id="Register"
value="Register">
87 </p>
88 </fieldset>
89 </form></td>
90   </tr>
91 </table>
92 </body>
93 </html>
94 HEAD;
95
96      }
97      function doCheckLogin()
98      {
99        //header("Content-type: text/plain");
100       $email=$_POST['email'];
101       $password=$_POST['password'];
102       if (empty($email)||empty($password))
103       {
104          showForm();
105          exit;
106       }
107       // echo "I have a name and password " . $name . ":" . $pass . "\n";
108       $cpass=$password;
109       $conn=connectToMySQL();
110       //echo "I connected to mysql\n";
111       $query="select count(*) from customer where email=? and
password=?";
112       $stmt=$conn->prepare($query);
113       $stmt->bind_param("ss", $email,$cpass);
114       $stmt->execute();
115       $stmt->bind_result($count);
116       $ok=false;
117       if($stmt->fetch())
118       {
119          if($count==1)
120             $ok=true;
121       }
122       $stmt->close();
123       $conn->close();
124       if(!$ok)
```

```php
125        {
126            header("Location: wrong.php");
127            exit;
128        }
129        $_SESSION['customer']=$email;
130        $log=true;
131        header("Location: products.php");
132    }
133    session_start();
134    if (array_key_exists('customer', $_SESSION))
135    {
136        $log=true;
137        header("Location: products.php");
138    }
139    else {
140        $how=$_SERVER['REQUEST_METHOD'];
141        if ($how=='POST')
142            doCheckLogin();
143        else
144            header("Location: wrong.php");
145    }
146
147    ?>
```

(The index page code of iToy store)

This page hold both login page for the new and old customer or go to product page directly as guest.

/var/www/ass3/wrong.php

```php
1  <?php
2      echo<<<error
3  <html>
4  <title>error</title>
5  <link href="css/css.css" rel="stylesheet" type="text/css">
6  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
7  </head>
8  <body>
9  <h1 align="center">Incorrect Email or Password!!!</h1>
10 <table align="center" width="500" border="0">
11   <tr>
12     <td ><img src="images/error.png" width="500" height="600"
align="absmiddle"></td>
```

```
13   </tr>
14 </table>
15 </body>
16 </html>
17
18 error;
19 ?>
```

<div align="center">(PHP code for error page)</div>

When the existed customer typed the wrong match of email and password, they will see this page.

/media/goldone/Cloud Storage/A3/newcustomeradd.php

```
1 <?php
2
3   function connectToMySQL()
4   {
5      $dbcon=new mysqli('localhost','root','123456','student35');
6       if(mysqli_connect_errno())
7       {
8          $problem= mysqli_connect_error();
9          die($problem);
10          exit;
11        }
12       return $dbcon;
13   }
14   function showForm()
15   {
16      $gname=$_POST['gname'];
17      echo <<<HEAD
18     <html>
19 <head>
20 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
21 <title>add</title>
22 <link href="css/css.css" rel="stylesheet" type="text/css">
23 <script type="text/javascript" src="./js/check.js"></script>
24 </head>
25 <body background="images/add.jpg">
26 <?php
27     if(log)
28     {
29        echo "<h1>$gname, Welcome to iToys !!!</h1>";
```

```
30        }
31   ?>
32 <p> </p>
33 <p>Please provide at least one valid address for us to deliver toys that
you have chosen.</p>
34 <form action="product.php" method="POST" onclick="return
confirmSubmit();">
35 <table width="600" border="0">
36   <tr>
37     <td>
38     <fieldset>
39     <p>
40       <label for="Add1">Address line 1</label>
41       <input type="text" name="Add1" id="Add1">
42       <label for="Add2"><br>
43         <br>
44         Address line 2</label>
45       <input type="text" name="Add2" id="Add2">
46     </p>
47     <p>
48       <label for="city">City</label>
49       <input type="text" name="city" id="city">
50     </p>
51     <p>
52       <label for="state">State</label>
53       <select name="state" id="state">
54       <option value="ACT">ACT</option>
55       <option value="NSW">NSW</option>
56       <option value="NT">NT</option>
57       <option value="QLD">QLD</option>
58       <option value="SA">SA</option>
59       <option value="TAS">TAS</option>
60       <option value="VIC">VIC</option>
61       <option value="WA">WA</option>
62     </select>
63     </p>
64     <p>
65       <label for="postcode">Postcode</label>
66       <input type="text" name="postcode" id="postcode"
style="width:10%">
67     </p>
68     <p>
69       <input type="submit" name="address" id="address" value="Record
my address">
```

```
70    </p>
71    </fieldset>
72    </td>
73  </tr>
74 </table>
75 </form>
76 </body>
77 </html>
78
79 HEAD;
80    }
81    function doaddRequest()
82    {
83      $email=$_POST['nemail'];
84      $password=$_POST['npassword'];
85      $gname=$_POST['gname'];
86      $mname=$_POST['mname'];
87      $fname=$_POST['fname'];
88      $add1=$_POST['Add1'];
89      $add2=$_POST['Add2'];
90      $city=$_POST['city'];
91      $state=$_POST['state'];
92      $postcode=$_POST['postcode'];
93    if (empty($add1)||empty($city)||empty($state)||empty($postcode))
94    {
95      showForm();
96      exit;
97    }
98    $conn=  connectToMySQL();
99    $query="insert into customer
values(?,?,?,?,?,?,?,?,?,?,'SUBMITTED')";
100   $stmt=$conn->prepare($query);
101   $errmsg=$conn->error;
102   if(!empty($errmsg))
103   {
104      die($errmsg);
105   }
106   $stmt->bind_param("ssssssssss",
$email,$gname,$mname,$fname,$add1,$add2,$city,$state,$postcode,$pass
word);
107   $stmt->execute();
108   $anyerrors=$conn->error;
109   $stmt->close();
110   $conn->close();
```

15

```
111   echo <<<RESPONSHEAD
112 <html>
113   <head>
114     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
115   <title>Excuses,excuses</title>
116   <link rel="stylesheet" type="text/css" href="css/css.css" />
117   </head>
118   <body>
119    <div id="container">
120        <h1>Wrong message</h1>
121 RESPONSHEAD;
122   if(!empty($anyerrors))
123   {
124      echo "<p>Sorry - we were unable to record your request; try again
later.</p>";
125      echo($anyerrors);
126   }
127   else
128   {
129     header("Location:product.php");
130     exit();
131  }
132   echo <<<RESPONSHEAD
133        </div>
134        </body>
135 </html>
136 RESPONSHEAD;
137    }
138   $how=$_SERVER['REQUEST_METHOD'];
139   if ($how=='POST')
140      doaddRequest();
141   else
142      showForm();
143   ?>
```

(PHP code for adding new customer)

By conveying the previous basic information of new customer (such as email, password and name), we want more detailed information of address for delivery their purchase.

/media/goldone/Cloud Storage/A3/product.php

```php
1  <?php
2      function connectToMySQL()
3      {
4          $dbcon=new mysqli('localhost','root','123456','student35');
5        if(mysqli_connect_errno())
6        {
7            $problem=  mysqli_connect_error();
8            die($problem);
9            exit;
10        }
11       return $dbcon;
12      }
13      function printPageHeader()
14      {
15        $gname=$_POST['gname'];
16        echo<<<HEADER
17        <html >
18        <head>
19        <meta http-equiv="Content-Type" content="text/html;
charset=utf-8" />
20          <title>product</title>
21          <link href="css/css.css" rel="stylesheet" type="text/css">
22          </head>
23          <body>
24          <h1 align="center">Buy  from the iToy Store</h1>
25          <table  align="center"  width="280" border="0">
26           <tr>
27             <td><img src="images/apple.jpg"  width="280" height="200"
align="middle"></td>
28             </tr>
29          </table>
30          <hr>
31        <?php
32            if(log)
33              echo " <h2>Welcome $gname</h2>";
34        ?>
35 HEADER;
36
37      }
38      function showForm()
39      {
40        printPageHeader();
41        $db=  connectToMySQL();
42        //$script=$_SERVER['PHP_SELF'];
```

17

```php
43        $query="select".
44              "imagefiletag,discount".
45              "from itoyproduct".
46              "order by imagefiletag";
47        $stmt=$db->prepare($query);
48        $count=0;
49        $stmt->execute();
50        $stmt->bind_result($imageflag,$discount);
51        while ($stmt->fetch())
52        {
53           if($count==0)
54           {
55              echo "<form method='post' action='productdetail.php'>\n";
56              echo "<table align='center' width='200' border='3'>";
57           }
58           $count++;
59
60           echo "<tr>\n";
61
62           for($i=0;$i<8;$i++)
63           {
64              if($discount>0)
65                 echo "<td bgcolor='#FF0000'><input type='image' name='choose' src='images/$imageflag.jpg'  width='115' height='115'/></td>";
66
67              else
68                 echo "<td><input type='image' name='choose' src='images/$imageflag.jpg'  width='115' height='115'/></td>";
69              $stmt->fetch();
70           }
71
72            echo "</tr>\n";
73
74        }
75           echo "<tr><td colspan='8' align='center'><h3>Highlighted  items are currently  discounted !!!</h3></tr>";
76           echo"</table>";
77           echo"</form></body></html>";
78        $db->close();
79     }
80
81  ?>
```

(PHP code for product)

18

It is really challenging for me to insert images by images tags selected from database and make them as link for the next detail page for further more information display. Besides, I should highlighted the discount goods when show all products of iToy store.

```php
1  <?php
2
3      function connectToMySQL()
4      {
5        $dbcon=new mysqli('localhost','root','123456','student35');
6       if(mysqli_connect_errno())
7       {
8          $problem= mysqli_connect_error();
9          die($problem);
10          exit;
11        }
12       return $dbcon;
13      }
14      function printPageHeader()
15      {
16         $gname=$_POST['gname'];
17
18        echo<<<HEADER
19        <html>
20         <head>
21         <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
22         <title>productdetdetail</title>
23         <link href="css/css.css" rel="stylesheet" type="text/css">
24         <style type="text/css">
25         .button {font-size:30px;   position: relative;  margin-top: 10px; color:black;
26              font-style:normal; text-align:center;border: whitesmoke groove thick;}
27         </style>
28         </head>
29         <body>
30         <?php
31            if(log)
32              echo " <h2>Welcome $gname</h2>";
```

```php
33          ?>
34 HEADER;
35
36      }
37      function showForm()
38      {
39          $choose=$_POST['choose'];
40          printPageHeader();
41          $db= connectToMySQL();
42          //$script=$_SERVER['PHP_SELF'];
43          $query="select".
44              "imagefiletag,title,description,price,discount".
45              "from itoyproduct".
46              "where imagefiletag=$choose";
47          $stmt=$db->prepare($query);
48          $stmt->execute();
49          $stmt->bind_result($imageflag,$title,$des,$price,$discount);
50          $stmt->fetch();
51          echo"<h1 align='center'>$title</h1>";
52          echo"<hr><table width='1000' border='0'><tr>\n";
53          echo"<td><img src='images/$imageflag.jpg' width='460' height='460'></td>";
54          echo"<td><p><b>$des</b></p></td>";
55          echo"</tr>";
56          echo"</table>";
57          echo"<hr>";
58          if($discount>0)
59              echo"<h2>Normally $ $price, now on special at $ $discount!!!</h2>";
60          else
61              echo"<h2>Only $ $price !!!</h2>";
62          echo"<form action='thankyou.php' method='post'>";
63          echo"<table width='500' border='0'>";
64          echo"<tr>\n
65          <td><input class='button' type='submit' name='buy' id='buy' value='Buy,Buy,Buy！！！'></td>";
66          echo"<td><label for='number'>  Number</label>";
67          echo"<input type='text' name='number' id='number' style='width:30%'></td>";
68          echo"</tr></form></body></html>";
69      }
70 ?>
```

(PHP code for detailed product view)

By selected image I need to let database offer me the rest of information of this product. For discount good and normal one, they should be performed differently on web page.

/var/www/ass3/thankyou.php

```php
1  <?php
2  function connectToMySQL()
3      {
4          $dbcon=new mysqli('localhost','root','123456','student35');
5        if(mysqli_connect_errno())
6        {
7            $problem=  mysqli_connect_error();
8            die($problem);
9            exit;
10        }
11        return $dbcon;
12      }
13  $id=$_POST['id'];
14  $toy=$_POST['imagefiletag'];
15  $customer=$_POST['email'];
16  $number=$_POST['number'];
17  $conn=  connectToMySQL();
18  $query="insert into orders values(?,?,?,?,now(),'SUBMITTED')";
19  $stmt=$conn->prepare($query);
20  $errmsg=$conn->error;
21  if(!empty($errmsg))
22  {
23     die($errmsg);
24  }
25  $stmt->bind_param("ssss", $id,$toy,$customer,$number);
26  $stmt->execute();
27  $stmt->close();
28  $conn->close();
29      echo<<<THANKYOU
30  <html>
31   <head>
32   <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
33
```

```
34    <title>Thank you</title>
35    <link href="css/css.css" rel="stylesheet" type="text/css">
36    <style type="text/css">
37    body,td,th {
38        font-family: Arial, Times, serif;
39    }
40    body {
41        background-image: url(images/3ku.jpg);
42        background-repeat: no-repeat;
43        background-color: #000;
44        color:#FFF;
45    }
46    </style>
47    </head>
48    <body >
49    <h3 align="justify"> </h3>
50    <h3 align="justify"> </h3>
51    <h3 align="justify"> </h3>
52    <p align="justify"> </p>
53    <h3 align="justify"> </h3>
54    <h3 align="justify"> </h3>
55    <h3 align="justify"> </h3>
56    <h3 align="justify"> </h3>
57    <h3 align="justify"> </h3>
58    <p align="justify"> </p>
59    <p align="justify"> </p>
60    <p align="justify"> </p>
61    <p align="center"><b>Thank you for your custom. Your PayPal
account will be billed. Your new iToy will be dispatched today.</br>
62    We are certain that you will enjoy your new iToy.</b></p>
63    <table width="400" border="1">
64     <tr>
65      <td align="center"><a href="product.php"><b>Continue
Shopping</b></a></td>
66      <td align="center"><a href="logout.php"><b>Log
out</b></a></td>
67     </tr>
68
69    </table>
70
71
72    </body>
73    </html>
74
```

```php
75 THANKYOU;
76
77 ?>
```

<div align="center">(PHP code for thankyou.php)</div>

For this time all information for customer choosing of purchased product will create a new order and inserted into the table of orders. The rest of the page is just let the user to know the operation is successful and let them select to log out or continue shopping.

/media/goldone/Cloud Storage/A3/logout.php

```php
1  <?php
2      session_start();
3      session_destroy();
4      echo<<<FAREWELL
5      <html>
6  <head>
7  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
8
9  <title>bye</title>
10 <link href="css/css.css" rel="stylesheet" type="text/css">
11
12 </head>
13 <body>
14 <h1 align="center">Farewell</h1>
15 <div align="center"><img  src="images/bye.jpg"  width="300" height="341">
16 </div>
17 <p align="center">Thank  you for visiting  the itoy store !!!</p>
18 </body>
19 </html>
20 FAREWELL;
21     ?>
```

<div align="center">(PHP code for log out)</div>

When user log out, Jobs comes into view again because this is iToy store with full of apple style.