

Shopping Cart Project

**CS17B --Yating Ge
Fall 2017**

file list:

- **admin** / userview.php & edit_user.php & delete_user.php
- **sql** /connect_mysql.php
- **javascript**: cart.js & cookieFunction.js & storefront.js
- **php&html**: registration.php & Login.php & storefront.php & view.php & check.php & Signout.php
- **css**: stylesheet.css
- **images**

Github link:

[https://github.com/yatingge/
Yatingge_CIS_17b_Fall2017/
tree/master/SCrtProj8](https://github.com/yatingge/Yatingge_CIS_17b_Fall2017/tree/master/SCrtProj8)

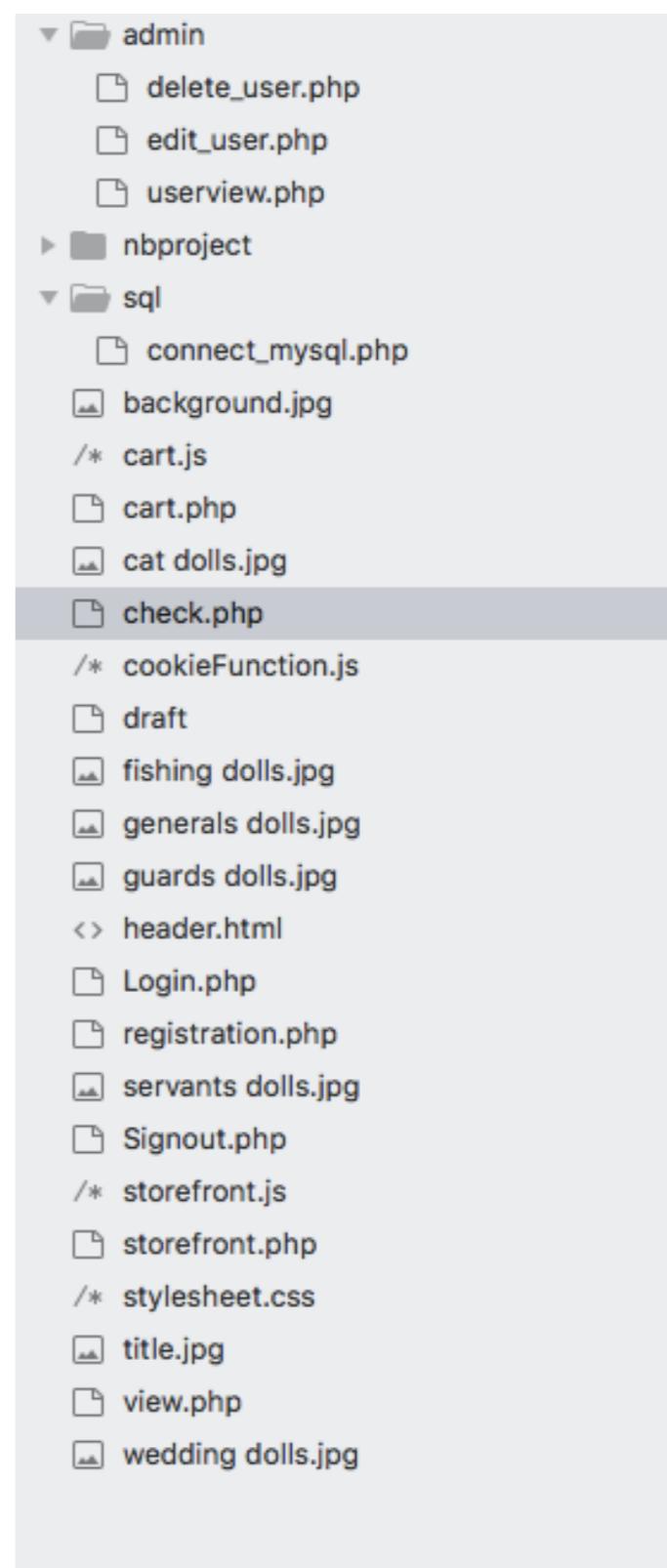
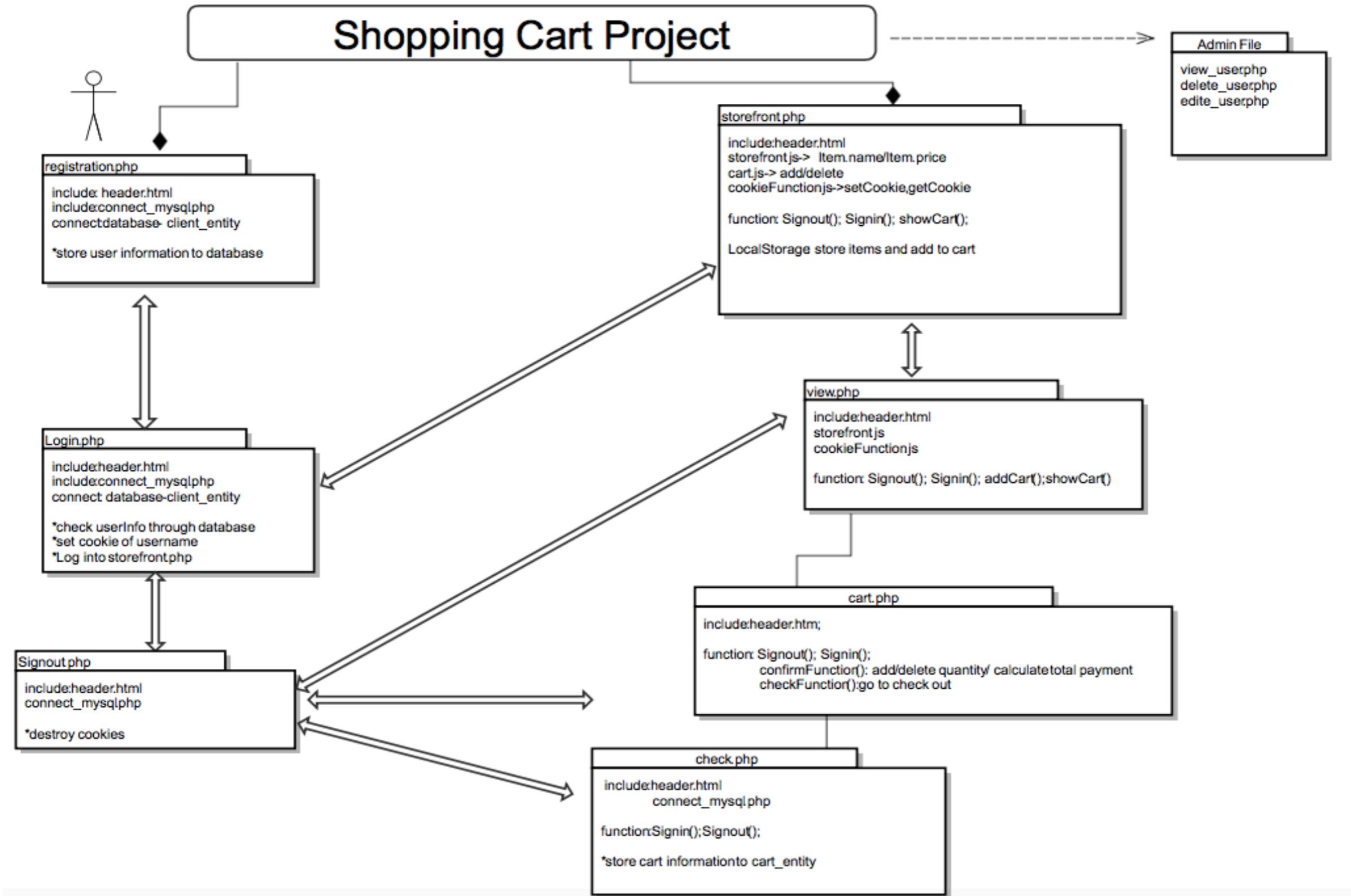
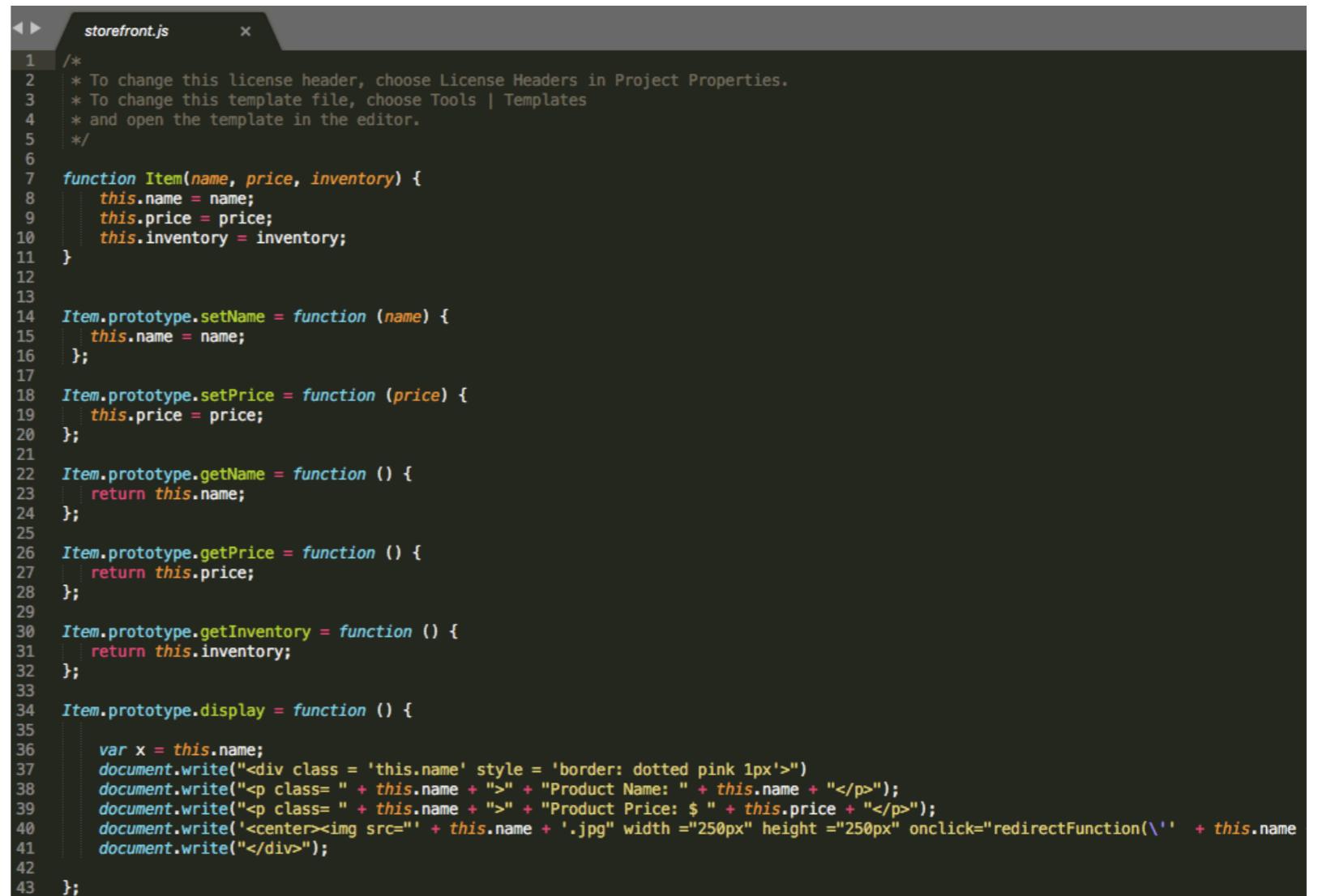


Diagram-UML



1) MVC - How you delineated your objects

- **filename: storefront.js / cart.js**
- **code example:**



The screenshot shows a code editor window titled "storefront.js". The code is written in JavaScript and defines a constructor function "Item" and its prototype methods. The constructor takes three parameters: name, price, and inventory. It initializes these properties on the object. The prototype has methods for setting and getting name, price, and inventory. The "display" method writes HTML to the document, including the product name, price, and an image of the product.

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
function Item(name, price, inventory) {
    this.name = name;
    this.price = price;
    this.inventory = inventory;
}

Item.prototype.setName = function (name) {
    this.name = name;
};

Item.prototype.setPrice = function (price) {
    this.price = price;
};

Item.prototype.getName = function () {
    return this.name;
};

Item.prototype.getPrice = function () {
    return this.price;
};

Item.prototype.getInventory = function () {
    return this.inventory;
};

Item.prototype.display = function () {
    var x = this.name;
    document.write("<div class = 'this.name' style = 'border: dotted pink 1px'>");
    document.write("<p class= " + this.name + ">" + "Product Name: " + this.name + "</p>");
    document.write("<p class= " + this.name + ">" + "Product Price: $" + this.price + "</p>");
    document.write('<center><img src=' + this.name + '.jpg" width ="250px" height ="250px" onclick="redirectFunction(\'' + this.name);
    document.write("</div>");
};
```

2) Objects - Javascript/PHP - Serialization

Passing info with Javascript Objects to PHP Objects with Cookies

- **filename:** storefront.php/ Login.php/Signout.php/check.php.....
- **code example:**

```
54
55     $result = $conn->query($sql);
56     $row = $result->fetch_assoc();
57
58     $password = mysqli_real_escape_string($conn, $_POST['passwordInput']);
59     $password_hashed=$row['password'];
60
61     if ($username != $row['username']) {
62         $email_Err = "<p>your username is incorrect. please check them and try again!<br></p>";
63
64     } elseif (!password_verify($password, $password_hashed)) {
65         $pswd_Err = "<p>your password is incorrect. please check them and try again!</p><br>";
66
67     } else {
68         echo "<script> window.location.assign('storefront.php'); </script>";
69
70     }
71
72     setcookie("username", $username, time() + (86400 * 30), "/");
73
74 ?>
75
76 <body>
77     <div class="center">
78         <h1>Welcome to Dolls Store</h1>
79
80         <!-- <div class="admin">
81             <button class ="button"  onclick="window.location.assign('userview.php')">Admin~Click here!</but
82         </div> -->
83
84         <form action ="" method="POST">
85             <h4>Enter your username:<input type ="text"
86                 placeholder= "username"
87                 name="userInput"
```

Login.php

```
1 <!DOCTYPE html>
2 <!--
3 To change this license header, choose License Headers in Project Properties.
4 To change this template file, choose Tools | Templates
5 and open the template in the editor.
6 -->
7 <html>
8     <head>
9         <title>Login Page!</title>
10    </head>
11    <body>
12        <?php
13            include "header.html";
14            setcookie("username", null, time() - (86400 * 30), "/");
15
16            echo "<p>You have signed out.</p>";
17
18            if(isset($_COOKIE['username'])){
19                unset($_COOKIE['username']);
20
21                echo '<p id="redirect"><script>function Redirect(){
22                    window.location="storefront.php";
23                    document.getElementById("redirect").innerHTML = "Sign out successfully!You will be redirected to a new pa
24                    in 5 seconds!";
25                    setTimeout("Redirect()",3000);
26                }';
27
28            ?>
29
30        </body>
31    </html>
32
33
34
35
```

Signout.php

3) Reading/Writing Files/Local Storage

JSON - Javascript

- **filename:** registration.php/storefront.php/cart.php/
Login.php/Signout.php.....
- **code example:**

```
registration.php  x
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->

<html>
  <head>
    <meta charset="UTF-8">
    <title>Sign Up</title>

  </head>
  <body>

    <?php
    include 'sql/connect_mysql.php';
    include 'header.html';

    $passwordErr = "";
    $usernameErr = "";
    $emailErr = "";
    $rgst = ""; //register information

    if ($_SERVER['REQUEST_METHOD'] === "POST") {
      $problem = FALSE;
    }
  
```



storefront.php

```
var items = [
  new Item("cat dolls", 5.5, 1),
  new Item("generals dolls", 5.5, 1),
  new Item("fishing dolls", 4.5, 1),
  new Item("wedding dolls", 6.6, 1),
  new Item("servants dolls", 6.6, 1),
  new Item("guards dolls", 6.6, 1),
];

var len = items.length;
for (var i = 0; i < items.length; i++) {
  items[i].display();
}

function redirectFunction(name){
  var product = name;
  localStorage.setItem("product",product);
  window.location.assign('view.php');
  for (var i = 0; i < items.length; i++) {
    if(items[i].name == name){
      var price = items[i].price;
      setCookie("price",price);
    }
  }
}

function confirmFunction(){
  var numItems = localStorage.getItem("numItems");

  if(getCookie("username")){
    var total = 0;
    for (var i = 0; i < numItems; i++) {
      var cart = JSON.parse(localStorage.getItem(i));
      var q = document.getElementById("quantity"+i).value;
      var amount = Number(q * cart.price).toFixed(2);
      document.getElementById('amount'+i).innerHTML = amount;
      total = total*1 + amount*1;
    }
    document.getElementById("total").innerHTML = "Total Amount for the order: "+ Number(total).toFixed(2);
  }

  var bankroll = Number(total).toFixed(2);
  setCookie("bankroll", bankroll,1);

}
document.write("<p id='total'>**</p>");

function checkFunction(){
  window.location.assign('check.php');
}
```

cart.php

```
var items = [
  new Item("cat dolls", 5.5, 1),
  new Item("generals dolls", 5.5, 1),
  new Item("fishing dolls", 4.5, 1),
  new Item("wedding dolls", 6.6, 1),
  new Item("servants dolls", 6.6, 1),
  new Item("guards dolls", 6.6, 1),
];

var len = items.length;
for (var i = 0; i < items.length; i++) {
  items[i].display();
}

function redirectFunction(name){
  var product = name;
  localStorage.setItem("product",product);
  window.location.assign('view.php');
  for (var i = 0; i < items.length; i++) {
    if(items[i].name == name){
      var price = items[i].price;
      setCookie("price",price);
    }
  }
}

function confirmFunction(){
  var numItems = localStorage.getItem("numItems");

  if(getCookie("username")){
    var total = 0;
    for (var i = 0; i < numItems; i++) {
      var cart = JSON.parse(localStorage.getItem(i));
      var q = document.getElementById("quantity"+i).value;
      var amount = Number(q * cart.price).toFixed(2);
      document.getElementById('amount'+i).innerHTML = amount;
      total = total*1 + amount*1;
    }
    document.getElementById("total").innerHTML = "Total Amount for the order: "+ Number(total).toFixed(2);
  }

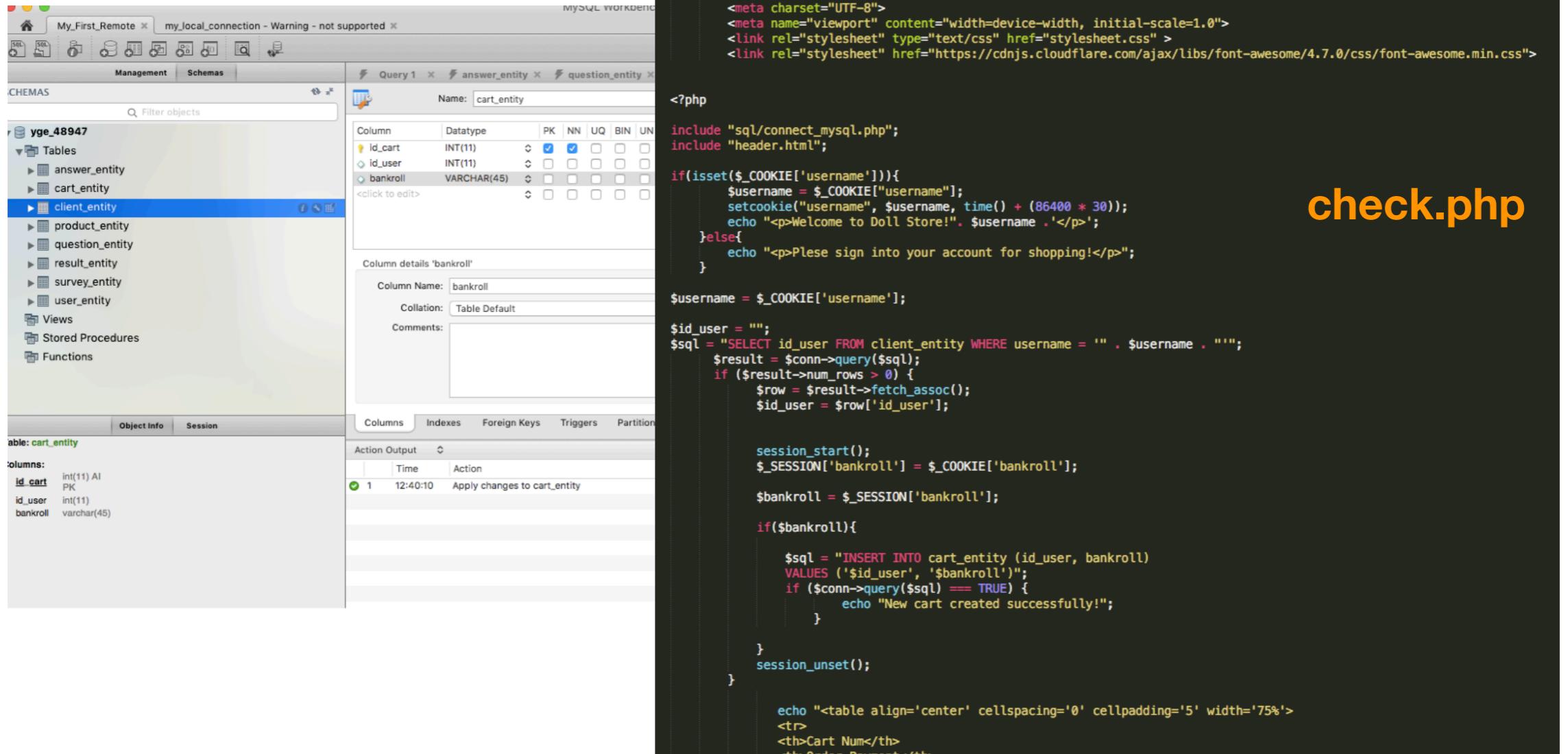
  var bankroll = Number(total).toFixed(2);
  setCookie("bankroll", bankroll,1);

}
document.write("<p id='total'>**</p>");

function checkFunction(){
  window.location.assign('check.php');
}
```

4) Databases SQL - Identify Entities, Xref, and Enum Tables

- filename: sql/connect_mysql.php & check.php
- code example:



The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view shows a database named 'yge_48947' with several tables: answer_entity, cart_entity, client_entity, product_entity, question_entity, result_entity, survey_entity, user_entity, Views, Stored Procedures, and Functions. The 'client_entity' table is selected. The 'Object Info' tab at the bottom displays the table structure with columns: id_cart (int(11) AI PK), id_user (int(11)), and bankroll (varchar(45)). The 'Session' tab shows a single action: 'Apply changes to cart_entity' at 12:40:10. On the right, the code editor contains PHP and HTML code for 'check.php'. The code includes a header with meta tags and CSS links, followed by PHP logic for handling user login and inserting data into the 'cart_entity' table.

```
<html>
<head>
    <title>Dolls from the Palace Museum </title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" type="text/css" href="stylesheet.css" >
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

```

```
<?php
include "sql/connect_mysql.php";
include "header.html";

if(isset($_COOKIE['username'])){
    $username = $_COOKIE["username"];
    setcookie("username", $username, time() + (86400 * 30));
    echo "<p>Welcome to Doll Store!<br>". $username . '</p>';
} else{
    echo "<p>Please sign into your account for shopping!</p>";
}

$username = $_COOKIE['username'];

$id_user = "";
$sql = "SELECT id_user FROM client_entity WHERE username = '" . $username . "'";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    $row = $result->fetch_assoc();
    $id_user = $row['id_user'];

    session_start();
    $_SESSION['bankroll'] = $_COOKIE['bankroll'];
    $bankroll = $_SESSION['bankroll'];

    if($bankroll){

        $sql = "INSERT INTO cart_entity (id_user, bankroll)
VALUES ('$id_user', '$bankroll')";
        if ($conn->query($sql) == TRUE) {
            echo "New cart created successfully!";
        }
    }
    session_unset();
}

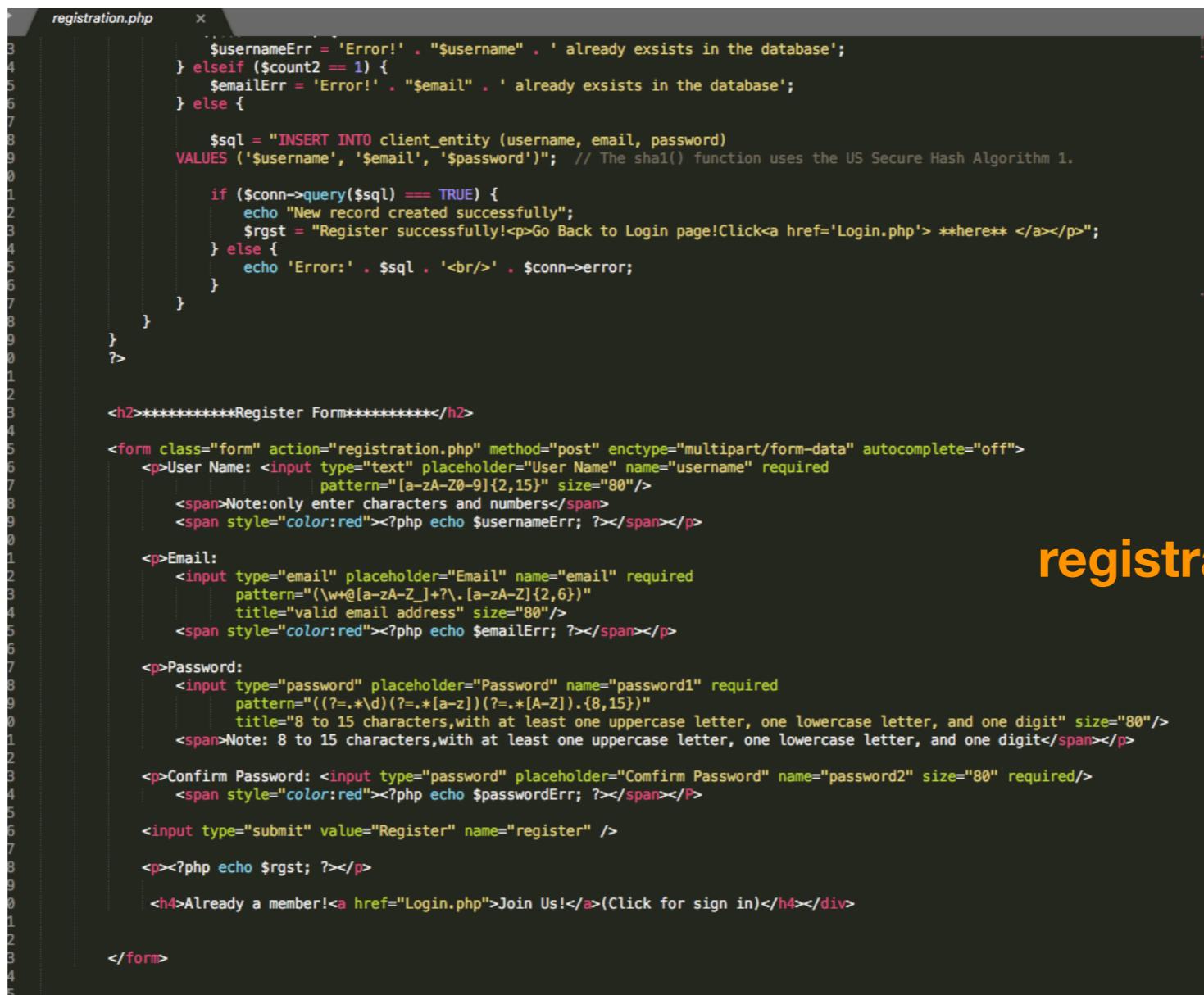
echo "<table align='center' cellspacing='0' cellpadding='5' width='75%'>
<tr>
<th>Cart Num</th>
<th>Order Payments</th>

```

check.php

5) Form Validation - Regular Expressions

- filename:Login.php/registration.php...
- code example:



The screenshot shows a code editor with the file name "registration.php". The code is a PHP script that performs form validation and database insertion. It uses regular expressions to validate the input fields. The validation logic is as follows:

- For the username field, it checks if the input contains only letters, numbers, and underscores, with a length of 2 to 15 characters.
- For the email field, it checks if the input is a valid email address, with a length of 2 to 6 characters after the '@' symbol.
- For the password field, it checks if the input is 8 to 15 characters long, containing at least one uppercase letter, one lowercase letter, and one digit.

If any validation fails, an error message is displayed in red text. If the database insertion is successful, a success message is displayed. The code also includes logic to handle existing users and display a registration confirmation message.

registration.php

6)User-Admin-Login

- filename: admin/userview.php&edit_user.php&delete_user.php

- code example:

```
edit_user.php      x
<body>
<?php
// put your code here
include '../sql/connect_mysql.php';

$url = $_SERVER['REQUEST_URI'];
$username = parse_url($url, PHP_URL_QUERY);

echo "<p>Edit user: " . $username . "</p>";

$sql = "SELECT id_user, username, email, password FROM client_entity WHERE username = '" . $username . "'";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    $row = $result->fetch_assoc();
    echo '<form action = "' . method ="POST">
User name: <input type = "text" name = "name" value = ' . $row['username'] . '><br><br>
Email address: <input type = "text" name = "emailadd" value = ' . $row['email'] . '><br><br>
Password: <input type = "text" name = "pswd" value = ' . $row['password'] . '><br>
<input type = "submit" value = "Submit">
</form>';
}

if (isset($_POST['name']) && $_POST['name'] != $username) {
    $sql = "UPDATE client_entity SET username= '" . $_POST['name'] . "' WHERE username = '" . $username . "'";
    if ($conn->query($sql) == TRUE) {
        echo "Username: Record has updated successfully<br>";
    } else {
        echo "Error updating record: " . $conn->error;
    }
}

if (isset($_POST['emailadd']) && $_POST['emailadd'] != $row['email']) {
    $sql = "UPDATE client_entity SET email= '" . $_POST['emailadd'] . "' WHERE username = '" . $username . "'";
    if ($conn->query($sql) == TRUE) {
        echo "Email: Record has updated successfully<br>";
    } else {
        echo "Error updating record: " . $conn->error;
    }
}

if (isset($_POST['pswd']) && $_POST['pswd'] != $row['password']) {
    $sql = "UPDATE client_entity SET password= '" . $_POST['pswd'] . "' WHERE username = '" . $username . "'";
    if ($conn->query($sql) == TRUE) {
        echo "Password: Record has updated successfully";
    } else {
        echo "Error updating record: " . $conn->error;
    }
}

echo '<p>Go back to userview page!Click <a href="userview.php"> ***here*** </p>';
?>
```

edit_user.php

7)Cookies - Sessions - Securing Pages

- filename:Signout.php/check.php....

- code example:

```
<?php

include "sql/connect_mysql.php";
include "header.html";

if(isset($_COOKIE['username'])){
    $username = $_COOKIE["username"];
    setcookie("username", $username, time() + (86400 * 30));
    echo "<p>Welcome to Doll Store!<br>". $username . '</p>';
} else{
    echo "<p>Please sign into your account for shopping!</p>";
}

$username = $_COOKIE['username'];

$id_user = "";
$sql = "SELECT id_user FROM client_entity WHERE username = '" . $username . "'";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    $row = $result->fetch_assoc();
    $id_user = $row['id_user'];

    session_start();
    $_SESSION['bankroll'] = $_COOKIE['bankroll'];

    $bankroll = $_SESSION['bankroll'];

    if($bankroll){

        $sql = "INSERT INTO cart_entity (id_user, bankroll)
VALUES ('$id_user', '$bankroll')";
        if ($conn->query($sql) == TRUE) {
            echo "New cart created successfully!";
        }
    }
    session_unset();
}

echo "<table align='center' cellspacing='0' cellpadding='5' width='75%'>
<tr>
<th>Cart Num</th>
<th>Order Payment</th>
</tr>";

$sql = "SELECT id_cart, bankroll FROM cart_entity WHERE id_user = '" . $id_user . "'";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
    $i=0;
    while($row = $result->fetch_assoc()) {
```

check.php

Display: registration

filename: registration.php

KTVo/TeamBlackJack: Blackjack game for 17B Sign Up +

***** ***** ***** *****
***** ***** ***** *****

Dolls from the Palace Museum

Happy Fun Life

New record created successfully

*******Register Form*******

User Name: Note:only enter characters and numbers

Email:

Password: Note: 8 to 15 characters,with at least one uppercase letter, one lowercase letter, and one digit

Confirm Password:

Register successfully!

Go Back to Login page!Click [**here**](#)

Already a member![Join Us!](#)(Click for sign in)

Display: Login

filename: Login.php



Display:storefront

filename: storefront.php

KTVo/TeamBlackJack: Blackjack game for 17B Dolls from the Palace Museum

Dolls from the Palace Museum

Happy Fun Life

Welcome! finaltest

->click cartGo!

 GO!  

<p>Product Name: cat dolls Product Price: \$ 5.5</p> <p></p>	<p>Product Name: fishing dolls Product Price: \$ 4.5</p> <p></p>	<p>Product Name: servants dolls Product Price: \$ 6.6</p> <p></p>
<p>Product Name: generals dolls Product Price: \$ 5.5</p> <p></p>	<p>Product Name: wedding dolls Product Price: \$ 6.6</p> <p></p>	<p>Product Name: guards dolls Product Price: \$ 6.6</p> <p></p>

->click-image go to view

Display: view product

filename: view.php



Welcome to Doll Store!finaltest

GO! [Sign Out!](#) [Sign In!](#)

 故宫淘宝



product name: cat dolls
product price: \$5.5
****In stock****

*Hand-crafted and Hand-painted
*Oriental Collectible Doll Figurine
*Home-Decor
*Porcelain Figurine
*Porcelain Collectible

->Add to cart 

Display: add more items(go back)

filename: storefront.php + view.php

Welcome to Doll Store!finaltest

Dolls from the Palace Museum

Happy Fun Life

 GO!  



product name: servants dolls
product price: \$6.6
In stock

*Hand-crafted and Hand-painted
*Oriental Collectible Doll Figurine
*Home-Decor
*Porcelain Figurine
*Porcelain Collectible

Add To Cart 



Display: Go to cart

filename: cart.php

The screenshot shows a website for "Dolls from the Palace Museum". The header features a gold banner with the text "Dolls from the Palace Museum" and "Happy Fun Life". Below the banner, a welcome message reads "Welcome to Doll Storefinaltest". There are "Sign Out!" and "Sign In!" buttons. A two-star rating is displayed as "★★".

Shopping Cart

	Product Name	Price	Quantity	Amount
	cat dolls	5.5	<input type="text" value="1"/>	5.50
	servants dolls	6.6	<input type="text" value="1"/>	6.60

->Change the quantity by input the num

Display: change quantity

filename: cart.php

The screenshot shows a web page for a shopping cart. At the top, there is a decorative banner with the text "Dolls from the Palace Museum" and "Happy Fun Life". Below the banner, a welcome message reads "Welcome to Doll Store!finaltest". There are two buttons: "Sign Out!" and "Sign In!". A total amount for the order is displayed as "Total Amount for the order: 71.50". At the bottom, there are two buttons: "Confirm Order!" and "Go for Check!". The main content area is titled "Shopping Cart" and contains a table with the following data:

	Product Name	Price	Quantity	Amount
	cat dolls	5.5	<input type="text" value="1"/>	5.50
	servants dolls	6.6	<input type="text" value="10"/>	66.00

->confirm order show total money

Display: check

filename: check.php



Dolls from the Palace Museum

Happy Fun Life

Welcome to Doll Store!finaltest

New cart created successfully! [Sign Out!](#) [Sign In!](#)

Cart Num	Order Payment
12	71.50

->go for check, show the cart

Display: Sign out

filename: signout.php

The screenshot shows a web page titled "Dolls from the Palace Museum" with a decorative header featuring traditional Chinese architecture and the text "Happy Fun Life". A welcome message "Welcome!" is displayed below the header. The page contains six product cards arranged in a 2x3 grid. Each card includes a small red logo with a character and the text "故宫淘宝".

- Product Name:** cat dolls
Product Price: \$ 5.5

- Product Name:** fishing dolls
Product Price: \$ 4.5

- Product Name:** servants dolls
Product Price: \$ 6.6

- Product Name:** generals dolls
Product Price: \$ 5.5

- Product Name:** wedding dolls
Product Price: \$ 6.6

- Product Name:** guards dolls
Product Price: \$ 6.6


Buttons:  GO! |  Sign Out! | 

Text annotation: ->After sign out, the username disappear

Display: can't confirm order after sign out

filename: signout.php

The screenshot shows a web page for a shopping cart. At the top, there is a decorative banner with the text "Dolls from the Palace Museum" and "Happy Fun Life". Below the banner, a message says "Please sign into your account for shopping!". There are two buttons at the bottom left: "Sign Out!" and "Sign In!". A small double-star icon ("**") is centered on the page. At the bottom, there are two more buttons: "Confirm Order!" and "Go for Check!". The main content area is titled "Shopping Cart" and contains a table with one item: "cat dolls" at a price of 5.50, quantity 1, and amount 5.50. An image of a cat doll is shown next to the product name.

Product Name	Price	Quantity	Amount
cat dolls	5.5	1	5.50

Display: admin folder

filename: userview.php

***** ***** ***** *****

***** ***** ***** *****

		Username	Email	Password
Edit	Delete			
Edit	Delete	Jim	j@example.com	\$2y\$10\$TNVcMzLdnmGonQNIznDGvOs.eCeJ/FxjuIYLlp
Edit	Delete	aa	aa@example.com	\$2y\$10\$cNck1fdBmbEgf6boZZVYOOA.K9nvO97gdxGF8x
Edit	Delete	bb	b@example.com	\$2y\$10\$29sJDRqjgUiP1Jhc92nZJubywSC5yDNDxZNVm0
Edit	Delete	cc	c@example.com	\$2y\$10\$Bw1D6A/m0Sbi7hCvELT78O6rYDW1St99XyyR.G
Edit	Delete	dd	dd@example.com	\$2y\$10\$Z5FBzuBP/Nz.rLOSuZwQPe4T33csRqxbWEY7gm
Edit	Delete	Example1	ex@example.com	\$2y\$10\$6yk5eM27fngKC244SwkBEObumTnBoDDx4WhmDElMwX2tJZ9Wle86

->password encrypted

Display: admin folder

filename: edit_user.php

***** ***** ***** *****

***** ***** ***** *****

Edit user: Example1

User name:

Email address:

Password:

Go back to userview page! Click [***here***](#)

Display: admin folder

filename: delete_user.php

***** ***** ***** ***** *****

***** ***** ***** ***** *****

Do you want to continue to delete user12?

Yes

No

submit

No record is deleted! ->**After click no**

Go back to userview page! Click ***here***

- Thank you for your teaching!