A Final Report

19013139 Myeong Su CHOI

Web Programming(006237-004)

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1) The goal/objective and summary of the project

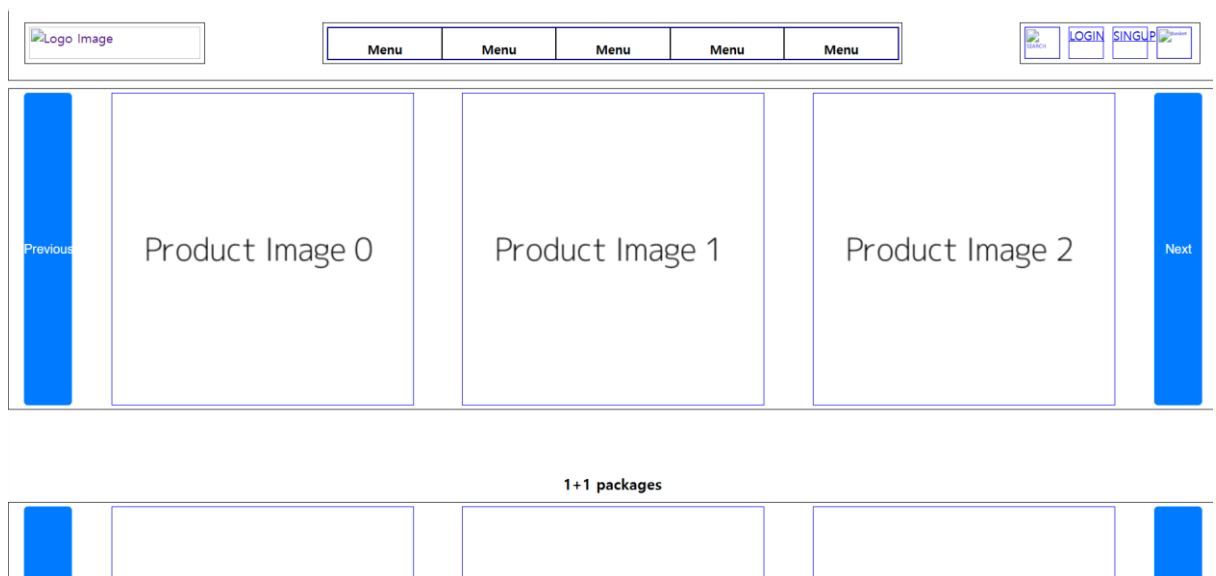The goal of the project is to create clothing shopping site.

Shopping site has the ability to log in and sign up for membership, click 'Like' and purchase products. User can also search for products and add reviews on products. User can find likes and purchased products on user's profile.

Implement the shopping site function as follows.

1. User Authentication / It provides login and membership services.

2. Comment function / It provides a function to comment on the product.

3. Like function / It provides the ability to press the Like button for the product.

4. Simpe order function / It provides a simple purchasing function.

5. Profile Management function / It should be able to edit the profile. In the profile, there are products that have been liked and purchased.

6. Search function / It provides the ability to find the product user's want.

7. ~~It implement responsive design to ensure that the website is mobile-friendly.~~

- Due to lack of time, the following function could not be implemented.

2) Wireframe on the main page

3) Description of each function

1. User Authentication

This capture is the values of the login page screen, membership screen and the member table of the project database.

User can log in by logging in with the email and password that exists in the database.

<How does it work?>

```html
<section class="login-section">
    <form method="post" action="homepage.php">
        <h2 style="font-size: 50px">Login</h2>
        <fieldset>
            <div>
                <input type="email" name="email" placeholder="Enter your EMAIL" required> <br>
            </div>
            <div>
                <input type="password" name="password" placeholder="Enter your PASSWORD" required>
            </div>
            <div>
                <button type="submit">Submit</button>
            </div>
            <?php if(isset($_SESSION['message']) && $_SESSION['message'] == 1) { ?>
                <p style="color : red">Your email and password do not match. Please try again.</p>
            <?php } $_SESSION['message'] = 0;?>
        </fieldset>
    </form>
```

From the login page to the main page named Homepage.php, pass the information through post method.

```php
<?php
session_start();

if(isset($_POST['email']) && isset($_POST['password'])) {

    $_SESSION['useremail'] = $_POST['email'];
    $_SESSION['userpass'] = $_POST['password'];

    $user = 'root';
    $pass = '';

    /*
        An error occurred because it matched the existing MySQL port number, so I changed the port number to 3307 and proceeded with the project.
    */
    $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
    mysqli_select_db($db, 'project') or die(mysqli_error($db));
    $query = 'SELECT *
        FROM member';
    $result = mysqli_query($db, $query) or die(mysqli_error($db));

    while($row = mysqli_fetch_array($result)) {
        extract($row);
        if($_SESSION['useremail'] == $email && $_SESSION['userpass'] == $password) {
            $_SESSION['logged'] = 1;
            $_SESSION['logged_email'] = $_SESSION['useremail'];
            break;
        }
        $_SESSION['logged'] = 0;
    }
    if($_SESSION['logged'] == 0) {
        $_SESSION['message'] = 1;
        echo "<script>window.location.href = 'login.php';</script>";
        exit();
    }
}
?>
```

In Homepage.php, it connects to the project database and compares the information received by the post method with the information in the member table to log in if users are a member, and displays the login screen again with a message if users are not member.

It works similarly logic when signing up for membership. However, if membership is successful, new data must be put in the member table.

2. Comment function
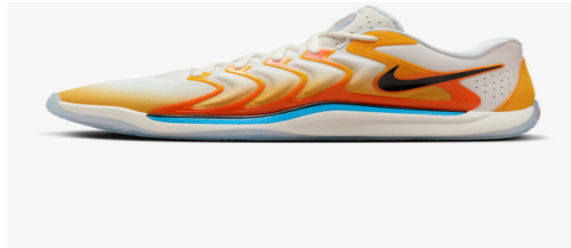
\<Product introduction\>

KD17
$150

Description
While Kevin Durant's all-timer status is already cemented, his hooper soul can't be soothed unless he's on the court, perfecting his craft. Put in the work to be great in the KD17, a shoe for gym rats and those who insist on running it back. A forefoot Air Zoom unit enhances your first step. We combined it with Nike Air cushioning to fuel full court sprints and defensive stops that can decide games.

Speed and Comfort
A big forefoot Air Zoom unit offers a different level of velocity, either on the run or out of a standstill position. It offers snappy pop when the game revs up. Springy foam helps you stay fresh 'til the final buzzer.

Cushioned and Supportive
The bottom layer of the upper has Nike Air cushioning at the heel to add a pop in your step. We put a strong plastic piece at the forefoot to help keep you supported.

Cut Quickly
The outsole pattern looks like a topographical map, with an array of contoured ridges that bend and deflect in multiple directions to provide traction for every move.

Stable for the Court
A supportive piece under the arch adds stability

Order	♡

\<How does it work?\>

```php
<section>
    <?php
        if(isset($_GET['id'])) {

            $user = 'root';
            $pass = '';

        $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
        mysqli_select_db($db, 'project') or die(mysqli_error($db));

        $query = "SELECT productName, price
                    FROM product
                    WHERE productID = '$product_ID'";
        $result = mysqli_query($db, $query) or die(mysqli_error($db));
        while($row = mysqli_fetch_array($result)) {
            extract($row);?>
    <div class="image">
        <img src="images/<?php echo $productName; ?>.png" alt="Image">
    </div>
    <h2 style="font-weight: bold; text-align: center; color: brown;"><?php echo $productName ?></h2>
    <p style="font-weight: bold; text-align: center; color: brown;"><?php echo $price ?></p>
    <br><br>
    <?php } ?>

    <?php
        $query = "SELECT title, content
                    FROM description
                    WHERE productID = '$product_ID'";
        $result = mysqli_query($db, $query) or die(mysqli_error($db));
        while($row = mysqli_fetch_array($result)) {
            extract($row); ?>
    <div class="explain">
        <p style="font-weight: bold;"><?php echo $title ?></p>
        <p>
        <?php echo $content ?>
        </p><br>
    </div>
    <?php } ?>
<?php } ?>
</section>
```

First, when a user clicks on a product, the product number is received as url data, and takes the image, name and price data of the product from the product table and displays it on the screen.

In addition, data are retrieved from the description table where the title and content are stored separately and a description of the product is displayed on the screen.

<Comment>

Review

Comments : None   NickName : None

It's very good!

Submit

Review

Comments : It's very good!   NickName : ABCDE

Please leave your thoughts....

Submit

User can see what is displayed on the screen when user enters a new comment.

<How does it work?>

```
<form method="post" action="product.php?id=<?php echo $product_ID; ?>">
    <fieldset style="display: flex;">
    <div style="margin: 20px;">
        <textarea name="comment" id="comment" rows="5" cols="150" placeholder=" Please leave your thoughts...." required></textarea>
    </div>
    <div style="margin-top: 70px; margin-left: 5px;">
        <button type="submit">Submit</button>
    </div>
    </fieldset>
</form>
```

Send data with the product number to url via post method.

```
if(isset($_POST['comment'])) {
    $postComment = $_POST['comment'];
    if(isset($_SESSION['logged_email'])) {
        $logged_email = $_SESSION['logged_email'];

        $user = 'root';
        $pass = '';
        $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
        mysqli_select_db($db, 'project') or die(mysqli_error($db));

        $postCommentEscaped = mysqli_real_escape_string($db, $postComment);
        $query = "INSERT into comment(comment, email, productID)
                    VALUES ('$postCommentEscaped', '$logged_email', '$product_ID')";
        $result = mysqli_query($db, $query) or die(mysqli_error($db));
        echo '<meta http-equiv="refresh" content="0">';
        exit();
    }
    else {
?>
    <script> window.alert("Please log in"); </script>
<?php
    }
}
?>
```

If there is any data that has benn transferred to the post method under the name comment, insert the data into the comment table of the project database. If users attempt to comment while not looged in, a warning window called please log in appears.

In the following code, the mysqli_real_escape_string method was used so that strings containing ' ' could also be inserted into comments.

Also, to prevent the problem of adding comments that were previously added once again

when you click refresh, use "echo'<meta http-equiv="refresh" content="0">' exit();" to automatically reload and stop running the php script.

Reference : https://www.php.net/manual/en/mysqli.real-escape-string.php

Reference : https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta#attr-http-equiv


```php
<div class="past">
<?php
if(isset($_GET['id'])) {
$user = 'root';
$pass = '';

/*
    An error occurred because it matched the existing MySQL port number, so I changed the port number to 3307 and proceeded with the project.
*/
$db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
mysqli_select_db($db, 'project') or die(mysqli_error($db));
$query = "SELECT comment, email
        FROM comment
        WHERE productID = '$product_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

if(mysqli_num_rows($result) == 0) { ?>
    <div class="box">
        <div class="comment">
            <p><span style="font-weight: bold; color: blue;">Comments : </span>None</p>
        </div>
        <div class="nickname">
            <p><span style="font-weight: bold; color: blueviolet;">NickName : </span>None</p>
        </div>
    </div>
<?php }
else {
    while($row = mysqli_fetch_array($result)) {
        extract($row);
        echo '<div class="box">';
        echo '<div class="comment">';
        echo '<p><span style="font-weight: bold; color: blue;">Comments : </span>' . $comment . '</p>';
        echo '</div>';

        $query2 = "SELECT nickName
                FROM member
                WHERE email = '$email'";
        $result2 = mysqli_query($db, $query2) or die(mysqli_error($db));
        while($row2 = mysqli_fetch_array($result2)) {
            extract($row2);
            echo '<div class="nickname">';
            echo '<p><span style="font-weight: bold; color: blueviolet;">NickName : </span>' . $nickName . '</p>';
            echo '</div>';
        }
        echo '</div>';
    }
}
?>
```

Then, take the data from the comment column and email column from the comment table and display it on the screen. Then, import the nickname value of the email from the member table and display who wrote the comment. If there is no data in the comment table, display None.

3. Like function

If users click on the empty heart in the previous product description image, it changes to a filled heart.

<How does it work?>

```php
<?php
    if(isset($_GET['heart']) && isset($_SESSION['logged_email'])) {
        $user = 'root';
        $pass = '';
        $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
        mysqli_select_db($db, 'project') or die(mysqli_error($db));

        if($_GET['heart'] == 0) {
            $query = "DELETE FROM liked WHERE productID = '$product_ID'";
            $result = mysqli_query($db, $query) or die(mysqli_error($db));
        }
        else if($_GET['heart'] == 1) {
            $query = "INSERT INTO liked(productID, email) VALUES ('$product_ID', '$emailID')";
            $result = mysqli_query($db, $query) or die(mysqli_error($db));
        }
    }

    if(!isset($_SESSION['logged_email']) && isset($_GET['heart'])) {
        echo "<script>window.location.href = 'login.php';</script>";
        exit();
    }
?>
```


	likeID	productID	email
☐ 🖉 수정 ❏┋ 복사 ⊖ 삭제	1	p01	abcde@naver.com

The server receives status information about whether a heart is changed to an empty heart('like canceled') or a filled heart('like') by url. If it is canceled, delete the corresponding product number in the like table in the project database. If it is like, add the corresponding product number to the liked table.

If users click 'like' when users are not logged in, set the login page to go.

Reference : https://developer.mozilla.org/en-US/docs/Web/API/Window/location#value

```html
<div class="select">
    <div class="buying">
        <a href="order.php"><h2>Order</h2></a>
    </div>
    <div class="heart">
        <?php
            if(isset($_SESSION['logged_email'])) {
                $query = "SELECT productID
                            FROM liked
                            WHERE email = '$emailID'";
                $result = mysqli_query($db, $query) or die(mysqli_error($db));
                $tmp = 0;
                while($row = mysqli_fetch_array($result)) {
                    extract($row);
                    if($productID == $product_ID) {
                        $tmp = 1;
                        break;
                    }
                    $tmp = 0;
                }
            } ?>
        <?php
            if($tmp == 1) { ?>
                <a href="product.php?id=<?php echo $product_ID; ?>&heart=0"><h2>♥</h2></a>
            <?php } else { ?>
                <a href="product.php?id=<?php echo $product_ID; ?>&heart=1"><h2>♡</h2></a>
            <?php } ?>
    </div>
```

Then, take the products that the currently logged in user has clicked 'like' from the database, and make the tmp variable 1 if it matches the product number that is currently clicked, or 0 otherwise. After that, decide whether to display empty or filled hearts on the screen according to the value of the tmp variable.

4. **Simple order function**

Quantity:
3

Address:
35, Pangyo-ro, Bundang-gu, Seongnam-si, Gye

Submit

When users click the Order button, users will see a screen where you write down the quantity and address.

KD17
Price :$150

Quantity : 3
Delivery Address : 35, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Order date : May 30, 2024

If users click the submit button, users will automatically go to the order history screen in user's profile and see that the product users ordered has been added to the order history.

<How does it work?>

```
<form method="post" action="ordered.php" style="width:50%;">
    <fieldset>
        <div style="padding: 10px;">
            <label for="quantity">Quantity: </label><br>
            <input type="text" name="quantity" id="quantity" style="width: 90%;" requir
        </div>
        <div style="padding: 10px;">
            <label for="address">Address: </label><br>
            <input type="text" name="address" id="address" style="width: 90%;" required
        </div>
        <div>
            <?php
                date_default_timezone_set('Asia/Seoul');
                $date = date('F d') . ', ' . date('Y');
            ?>
            <input type="hidden" name="date" id="date" value="<?php echo $date; ?>">
        </div>
        <div style="padding: 10px;">
            <button style="margin-top: 5px;" type="submit">Submit</button>
        </div>
    </fieldset>
</form>
```

Send information from order.php to ordered.php using the post method.

Send the current date information using the date_default_timezone_set function along with the quantity and address information.

```php
if(isset($_POST['quantity']) && isset($_POST['address']) && isset($_POST['date'])) {
    $quantity_ = $_POST['quantity'];
    $address_ = $_POST['address'];
    $date_ = $_POST['date'];

    $user = 'root';
    $pass = '';
    $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
    mysqli_select_db($db, 'project') or die(mysqli_error($db));
    $query = "INSERT INTO ordered(email, productID, quantity, deliveryAddress, orderDate) VALUES ('$email', '$ID', '$quantity_', '$address_', '$date_')";
    $result = mysqli_query($db, $query) or die(mysqli_error($db));
    header("Location: ordered.php");
}
```

SELECT * FROM `ordered`

☐ 프로파일링 [인라인 편집] [수정] [SQL 해석] [PHP 코드 보기] [다시 보기]

☐ 모두 보기 │ 행 갯수: 25 ∨   행 필터링: 현재 테이블 검색

Extra options

←T→		orderID	email	productID	quantity	deliveryAddress	orderDate
☐ 🖋수정 📑복사 ⊖삭제		2	abcde@naver.com	p01	3	35, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-d...	May 30, 2024

Add data to the ordered table with information received from order.php .

When order.php delivers information, the "header("Location:ordered.php")" is used to display the ordered.php screen,. This code prevents server from once again adding a product users recently added even if users refresh it.

Reference : https://www.php.net/manual/en/function.header.php

- It's a shame that I didn't put in the function for cancellation of the order.

5. **Profile management function**

<Profile screen>

Profile

Name	NickName
Myeong Su Kim	ABCDE

Modify Information	Wish List(1)	Ordered(1)

When users press a profile image, it goes to the user's profile screen. There are buttons to modify user's information, buttons to see products that they like, and buttons to see products that they have purchased. And it shows the number of products that have pressed likes and the number of products ordered.

<How does it work?>

```php
<?php
    if(isset($_SESSION['logged_email'])) {
        $user = 'root';
        $pass = '';

        $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
        mysqli_select_db($db, 'project') or die(mysqli_error($db));
        $query = "SELECT firstName, lastName, nickName
                FROM member
                WHERE email = '{$_SESSION['logged_email']}'";
        $result = mysqli_query($db, $query) or die(mysqli_error($db));
        while($row = mysqli_fetch_array($result)) {
            extract($row);
?>
```

Connect to the project database with the data stored in the session variable 'logged_email', get the firstName, lastName and nickname column values, and display them on the screen.

<Modify information>

Modify Information

First name:

Myeong Su

Last name:

Kim

Nickname:

ABCDE

Email:

abcde@naver.com

Password:

.....

SUBMIT

When users click the modify information button, a window appears to modify the user's information. Existing information is entered and displayed on the screen. It shows a message that cannot be modified if the email and nickname overlap with existing

members.

<How does it works?>

```html
<form method="post" action="profile.php">
    <h2 style="font-size: 50px; text-align: center;">Modify Information</h2>
    <br>
    <fieldset>
        <div>
            <label for="modify_first_name">First name:</label><br>
            <input type="text" name="modify_first_name" id="first_name" value="<?php echo $firstname; ?>" required>
        </div>
        <div>
            <label for="modify_last_name">Last name:</label><br>
            <input type="text" name="modify_last_name" id="last_name" value="<?php echo $lastname; ?>" required>
        </div>
        <div>
            <label for="modify_nickname">Nickname:</label><br>
            <input type="text" name="modify_nickname" id="nickname" value="<?php echo $nick; ?>" required>
        </div>
        <div>
            <label for="modify_email">Email:</label><br>
            <input type="email" name="modify_email" id="email" value="<?php echo $emailID; ?>" required> <br>
        </div>
        <div>
            <label for="modify_password">Password:</label><br>
            <input type="password" name="modify_password" id="password" value="<?php echo $pass; ?>" required>
        </div>
        <button type="submit">Submit</button>
        <?php if(isset($_SESSION['message3']) && $_SESSION['message3'] == 1) { ?>
            <p style="color : red">Subscribed email exists, please sign up with another email.</p>
        <?php } $_SESSION['message3'] = 0; ?>
        <?php if(isset($_SESSION['message4']) && $_SESSION['message4'] == 1) { ?>
            <p style="color : red">Subscribed nickname exists, please sign up with another nickname.</p>
        <?php } $_SESSION['message4'] = 0; ?>
    </fieldset>
</form>
```

Transfer data to profile.php using the post method.

```php
$query = "ALTER TABLE comment DROP FOREIGN KEY comment_ibfk_1";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "ALTER TABLE liked DROP FOREIGN KEY liked_ibfk_2";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE comment SET email = '$modifyEmail' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE liked SET email = '$modifyEmail' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE member SET password = '$modifyPass' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE member SET nickName = '$modifyNickName' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE member SET firstName = '$modifyFirstName' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE member SET lastName = '$modifyLastName' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "UPDATE member SET email = '$modifyEmail' WHERE email = '$email_ID'";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "ALTER TABLE comment ADD CONSTRAINT comment_ibfk_1 FOREIGN KEY (email) REFERENCES member(email);";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$query = "ALTER TABLE liked ADD CONSTRAINT liked_ibfk_2 FOREIGN KEY (email) REFERENCES member(email)";
$result = mysqli_query($db, $query) or die(mysqli_error($db));

$_SESSION['logged_email'] = $modifyEmail;
```

If it does not match existing data, it connects to the database to modify the information.

Don't forget to change the value stored in the session variable 'logged_email' to the newly modified value at the end.

<Wishlist & Order history>

It shows the products that the user liked and ordered. It is implemented in simple logic, so I will not explain it.

6. Search function

Home	Shop	1+1	New	Community	🔍

KD17   Submit
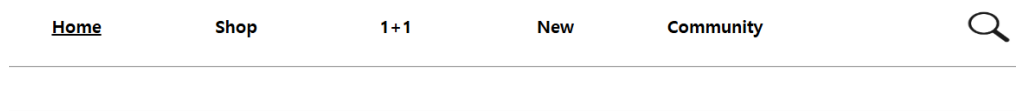
If users press the magnifying glass-shaped image in the image above, users will see the following screen. And if users search for the name of the product users want, users will see the screen of the product.

Home	Shop	1+1	New	Community

KD17
$150

Description
While Kevin Durant's all-timer status is already cemented, his hooper soul can't be soothed unless he's on the court, perfecting his craft. Put in the work to be great in the KD17, a shoe for gym rats and those who insist on running it back. A forefoot Air Zoom unit enhances your first step. We combined it with Nike Air cushioning to fuel full court sprints and defensive stops that can decide games.

Speed and Comfort
A big forefoot Air Zoom unit offers a different level of velocity, either on the run or out of a standstill position. It offers snappy pop when the game revs up. Springy foam helps you stay fresh 'til the final buzzer.

\<How does it works?\>

```php
<?php
    if(isset($_POST['search'])) {
        $product_name = $_POST['search'];
    }

    $user = 'root';
    $pass = '';
    $db = mysqli_connect('localhost:3307', $user, $pass) or die('Unable to connect. Check your connection parameters');
    mysqli_select_db($db, 'project') or die(mysqli_error($db));

    $query = "SELECT *
            FROM product
            WHERE productName = '$product_name'";
    $result = mysqli_query($db, $query) or die(mysqli_error($db));
    while($row = mysqli_fetch_array($result)) {
        extract($row);
        if($productName == $product_name) {
            echo "<script>window.location.href = 'product.php?id=$productID';</script>";
            exit();
        }
    }
    echo "<script>window.location.href = 'search.php?tmp=1';</script>";
    exit();
?>
```
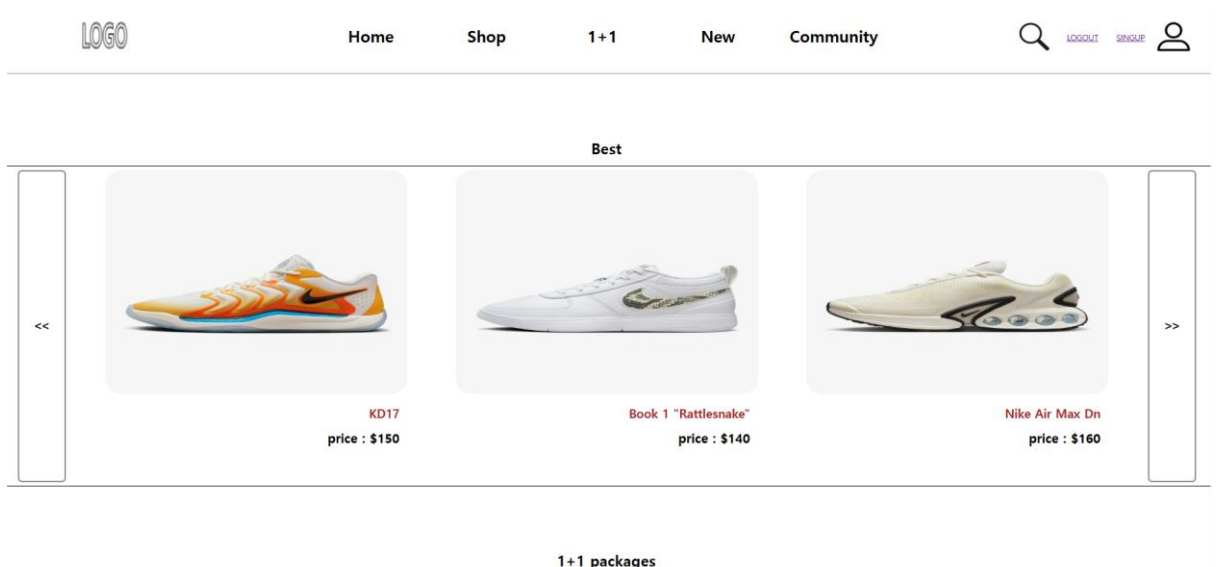
Send data from search.php to searchProduct.php using the post method. If the name of the product to be searched exists in toe product table, send it to product.php including the product number information in the product.php.
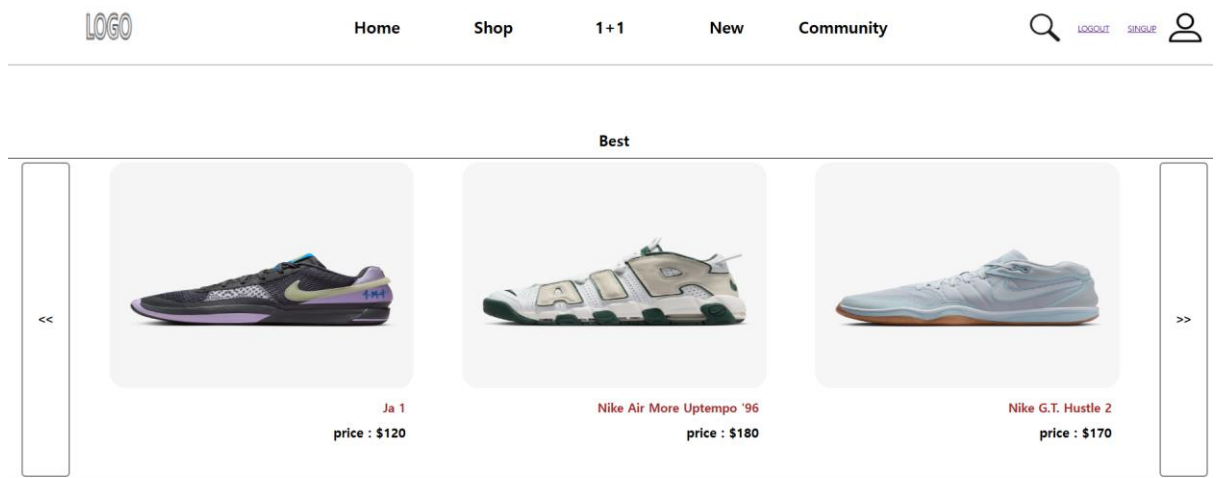
If it is a non-existent product name, it shows the search.php screen again with the message that it is a non-existent product.

4) Other function

This is the main page of the shopping site. I couldn't cover all the products, so I added images only of the best products. There are a total of eight products, and when users

press the buttons both sides, the following products are displayed three at a time.

<How does it works?>

```
let next = 3;
function nextChange() {
    let imgElements0 = document.getElementById("productImage0");
    let imgElements1 = document.getElementById("productImage1");
    let imgElements2 = document.getElementById("productImage2");
    let nameElements0 = document.getElementById("name0");
    let nameElements1 = document.getElementById("name1");
    let nameElements2 = document.getElementById("name2");
    let priceElements0 = document.getElementById("price0");
    let priceElements1 = document.getElementById("price1");
    let priceElements2 = document.getElementById("price2");

    imgElements0.src = imgs[next].src;
    nameElements0.innerText = names[next];
    priceElements0.innerText = prices[next];
    document.getElementById("link0").href = link[next];
    next++;
    next %= imgs.length;

    imgElements1.src = imgs[next].src;
    nameElements1.innerText = names[next];
    priceElements1.innerText = prices[next];
    document.getElementById("link1").href = link[next];
    next++;
    next %= imgs.length;

    imgElements2.src = imgs[next].src;
    nameElements2.innerText = names[next];
    priceElements2.innerText = prices[next];
    document.getElementById("link2").href = link[next];
    next++;
    next %= imgs.length;

    prev = (next + 2) % imgs.length;
}
```

I store the image url in the array named files, I store the address of the destination where the data is to be sent in the post method in the array named link, I store the price information of the products in the array named prices. And I use the id to take the data

of the products displayed on the screen and put the data of the products to be displayed. The buttons that look at the previous products are implemented with the same logic.

5) My GitHub repository

[withMSCHOI/web_project (github.com)](github.com)