

COSC360

UBCO

Feb 27, 2023

Gyumin Moon

Harshall

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# Server-Side Proposal

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Server-Side Demo

URL: <https://cosc360.ok.ubc.ca/gyumin/PROJECT-COSC360-1/page/>

[Test Account | email: tester@gmail.com, password: Tester1234]

[Test Admin Account | email: admin@gmail.com, password: Password1234]

Github: <https://github.com/COSC360/project-2020-byte>

Demo Video:

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Page List:

/page/index.php

/page/login.php

/page/signup.php

/page/lost.php

/page/profile.php

/page/users.php

/page/productSearch.php

/page/product.php



/page/opinion.php

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# Website user's objectives:

# Browse discussions without registering.

/page/productSearch.php





[Home](#) > [Product Search](#)

Create Free Account


Sign In

## Product Search

Order by Average Customer Review 



[« Prev](#) [1](#) [...](#) [5](#) [Next »](#)



★★★★★

Studio Display


\$1,999.00

Need to sign in to see description

Buy

Review

More opinion





★★★★★

SE (GPS + Cellular)


Review

# Search for items/posts by keyword without registering.




Create Free Account

Sign In

Order by Price: low to high 

[1](#)



★★★★★

MacBook Air 13.3" (M1)

\$1,149.00

Need to sign in to see description


Buy

Review

badbadbad

nicenice

More opinion



★★★★★

MacBook Air 13.6" (M2)

\$1,499.00

Need to sign in to see description

Review

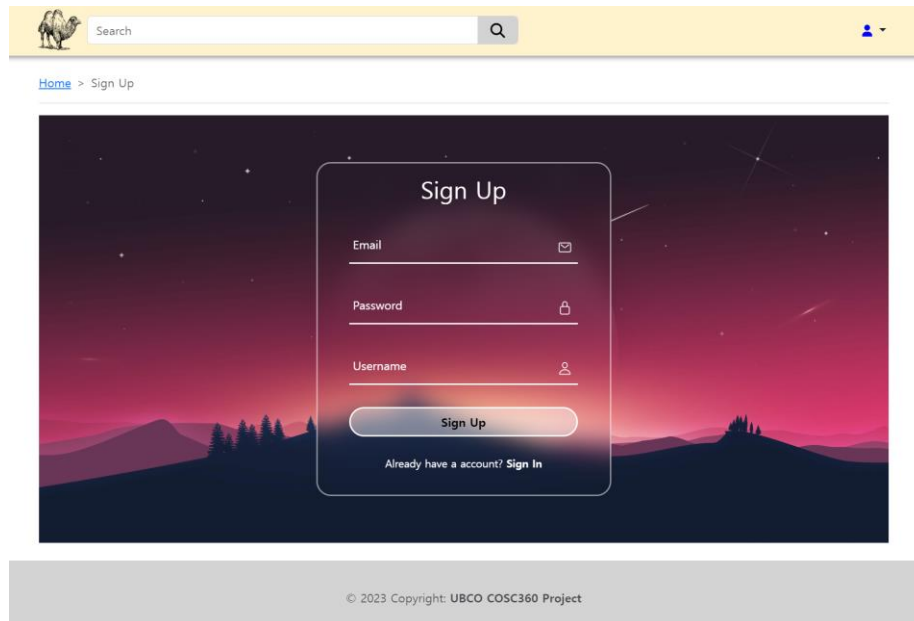
fsafa

fsafa

# Register at the site by providing their name, e-mail.

If submit already existed email and username, it will show alarm that it can't be used.

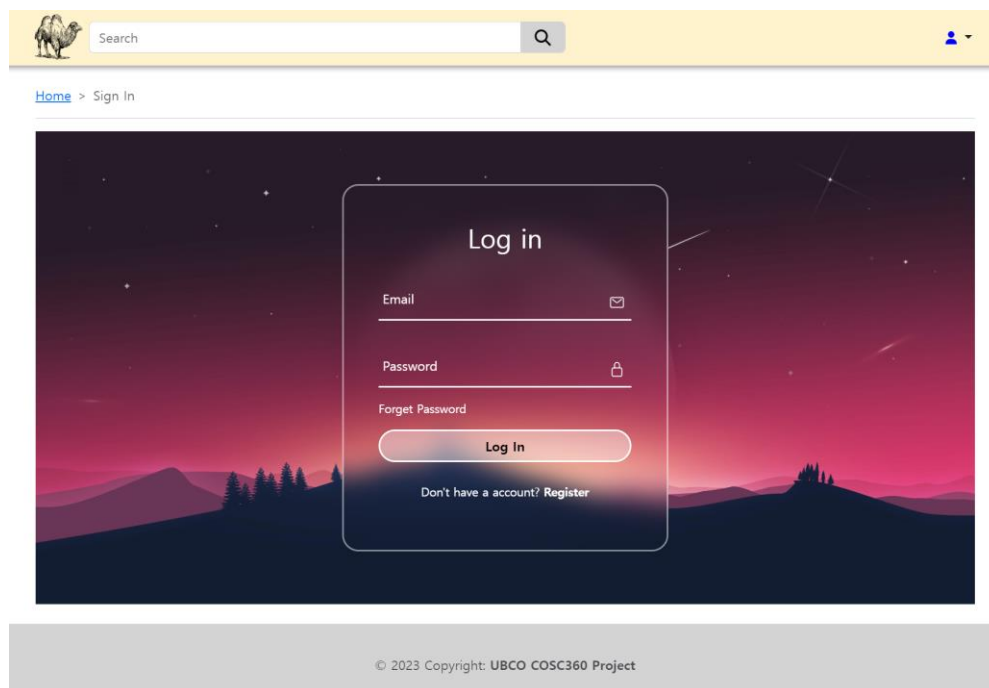
/page/signup.php



The screenshot shows a web application interface for a sign-up page. At the top, there is a yellow header bar containing a search bar with a magnifying glass icon and a user profile icon. Below the header, a breadcrumb trail reads "Home > Sign Up". The main content area features a dark, atmospheric background with a silhouette of a landscape under a starry night sky. Centered on this background is a white, rounded rectangular form titled "Sign Up". The form contains three input fields: "Email" with an envelope icon, "Password" with a lock icon, and "Username" with a person icon. Below these fields is a "Sign Up" button. At the bottom of the form, there is a link that says "Already have an account? Sign In". The footer of the page is a grey bar with the text "© 2023 Copyright: UBCO COSC360 Project".

# Allow user login by providing user id and password.

/page/login.php



The screenshot shows a web application interface for a login page. It has the same layout as the sign-up page, with a yellow header bar, a search bar, and a user profile icon. The breadcrumb trail reads "Home > Sign In". The main content area has the same dark, atmospheric background. Centered on this background is a white, rounded rectangular form titled "Log in". The form contains two input fields: "Email" with an envelope icon and "Password" with a lock icon. Below these fields is a "Log In" button. At the bottom of the form, there is a link that says "Don't have an account? Register". The footer of the page is a grey bar with the text "© 2023 Copyright: UBCO COSC360 Project".

# Users are required to be able to view/edit their profile.

If submit already existed email and username, it won't change email or username.

/page/profile.php

user1

password

1@gmail.com

Update

© 2023 Copyright: UBCO COSC360 Project

## Website administrator's objectives:

# Search for user by name, email.

# Enable/disable users. (Status is changed by clicking it like toggle)

/page/users.php

Username Email




#	Username	Email	Status
1	admin	gyumin@student.ubc.ca	Active
2	user0	gmmoon0824@gmail.com	Active
3	user1	1@gmail.com	Active
4	user2	2@gmail.com	Active
5	user3	3@gmail.com	Active
6	user4	4@gmail.com	disabled
7	user12	12@gmail.com	disabled
8	user14	14@gmail.com	Active
9	user1514	1515@gmail.com	disabled

# Edit/remove posts items or complete posts.

(Administrator account can click any review and move to its review page)

#	Username	Rating	Review	Posted Date	Updated Date
1	user0	5	fsafa	2023-03-14 18:08:04	2023-03-18 15:15:14
2	user0	5	fsafa	2023-03-14 18:07:40	2023-03-18 15:15:14
3	user0	4	niceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seq	2023-03-14 14:45:24	2023-03-18 15:15:14
4	user1	3	not bad	2023-03-14 14:45:24	2023-03-18 15:15:14
5	user2	2	not good	2023-03-14 14:45:24	2023-03-18 15:15:14
6	user3	1	bad	2023-03-14	2023-03-18

Once moved to certain review page, administrator can edit and delete posts like its own user.



[Home](#) > [Product Search](#) > [MacBook Air 13.6" \(M2\)](#) > Review

#	Username	Product
1	admin	MacBook Air 13.6" (M2)

Rating

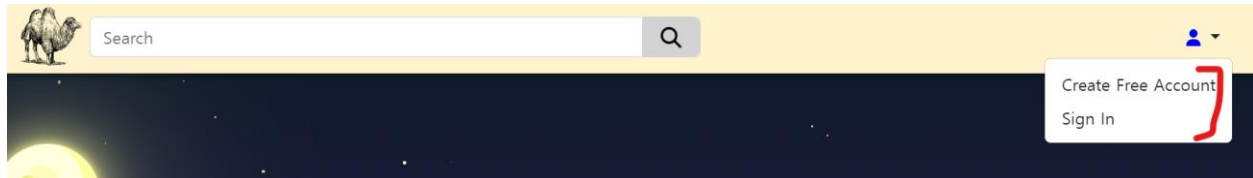
niceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seq

EditDelete

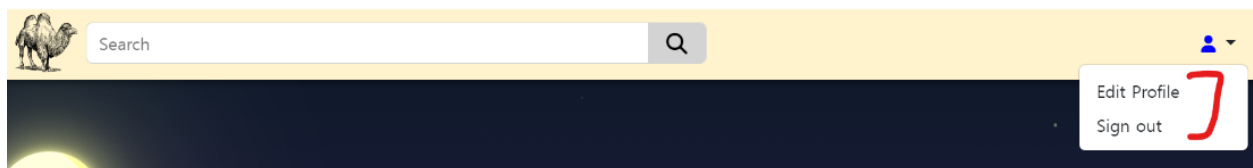
## Minimum Functional Requirements:

# Hand-styled layout with contextual menus (i.e. when user has logged on to site, menus reflect change). Layout frameworks are not permitted other than Bootstrap (see above).

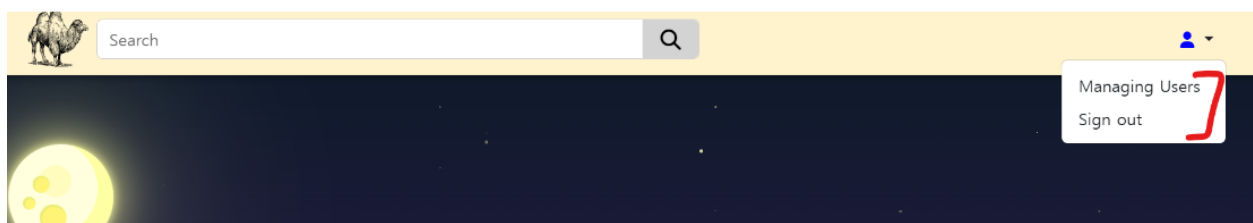
### 1. Unsigned user view



### 2. Signed user view



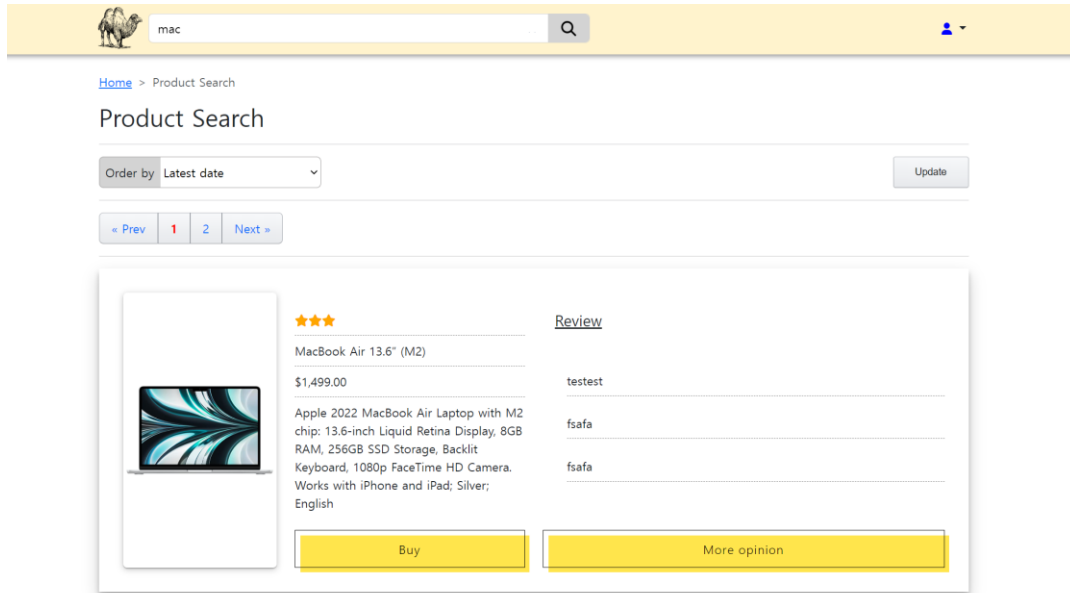
### 3. Administrator view



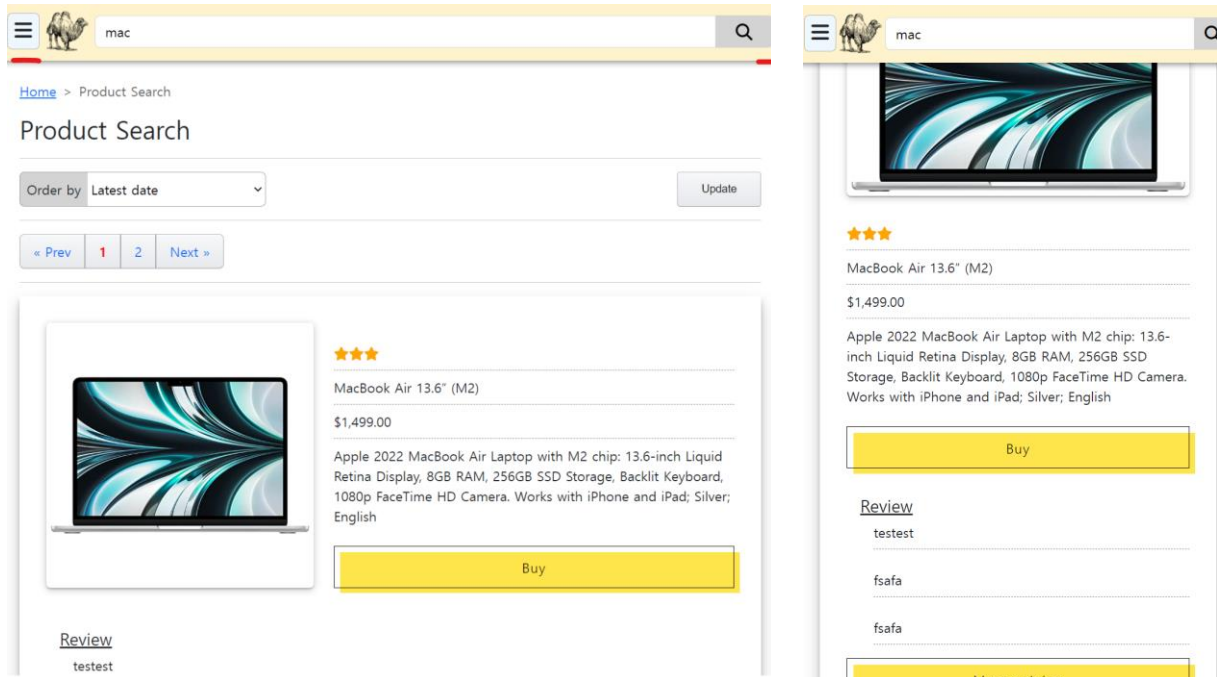
# 2 or 3 column layout using appropriate design principles (i.e. highlighting nav links when hovered over, etc) responsive design.

## Responsive design

It has 3 columns when the screen is large



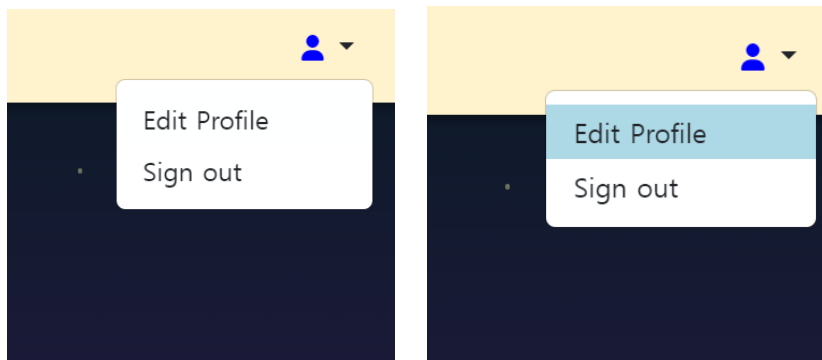
It has 2 columns when the screen is medium and it has 1 columns when the screen is small.



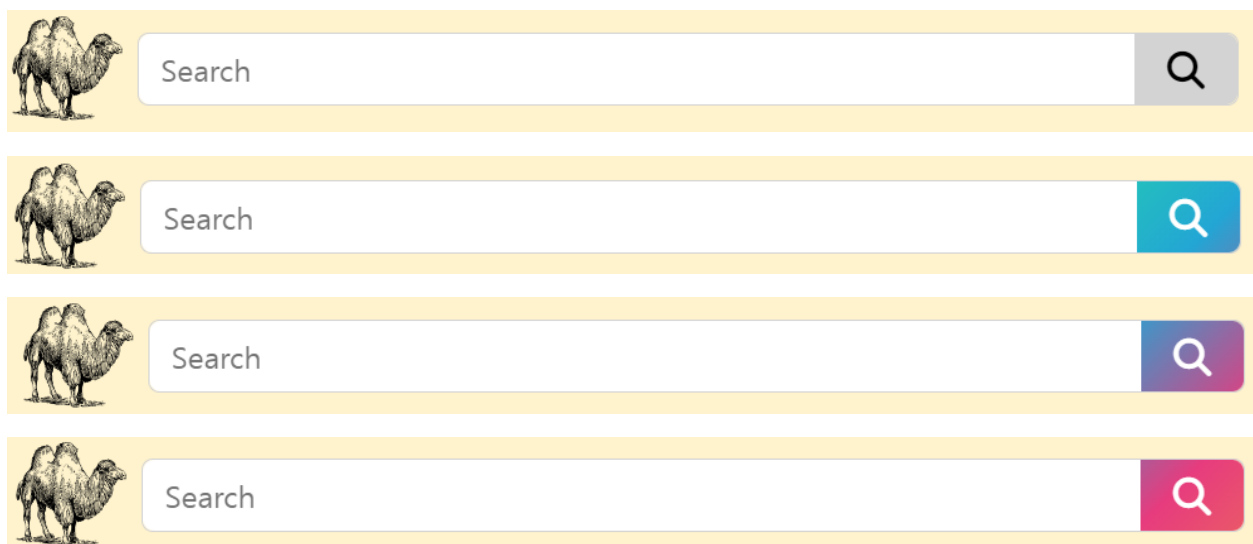
When hover “LET’S DIVE IN” button, it is filled with blue from the lower left corner to upper right corner.



When hover menu, that menu’s background color is changed.



When hover magnifier icon, color keep changing from sky blue to pink and vice versa.



When input is focused, red outline is activated.





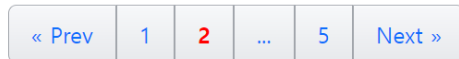
When hover pagination button, it gets to have shadow.

When it is focused, it changes background color and font color.



Total number of pages: 5

Current page: 2



Current page: 3



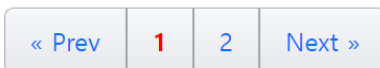
Total number of pages: 1

Current page: 1



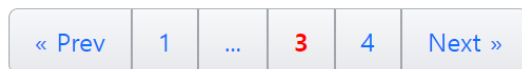
Total number of pages: 2

Current page: 1

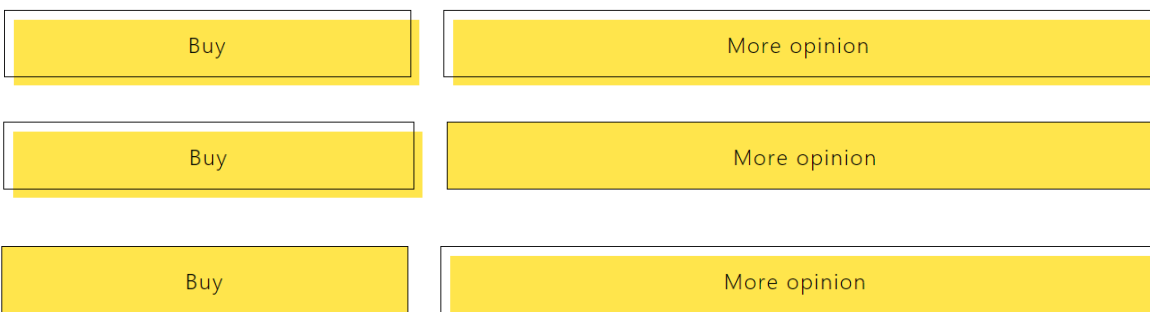


Total number of pages: 4

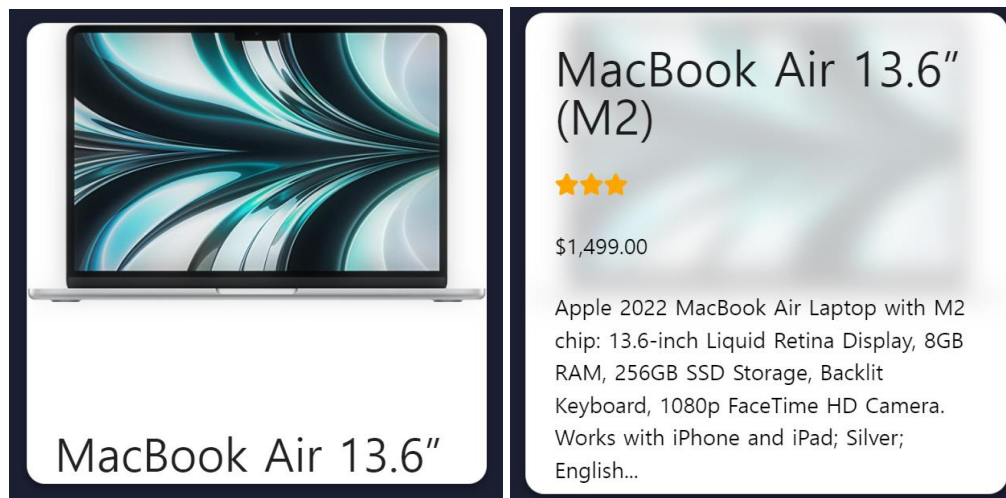
Current page: 3



When hover Buy or More opinion button, its background yellow shadow fits to its location





When hover image of product at product.php page, it slides up details.



When hover user own review at product.php page, its color change to blue.

#	Username	Rating	Review	Posted Date	Updated Date
1	user0	5	fsafa	2023-03-14 18:08:04	2023-03-18 15:15:14
2	user0	5	fsafa	2023-03-14 18:07:40	2023-03-18 15:15:14
3	user0	4	niceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seq	2023-03-14 14:45:24	2023-03-18 15:15:14
4	user1	3	not bad	2023-03-14 14:45:24	2023-03-18 15:15:14
5	user2	2	not good	2023-03-14 14:45:24	2023-03-18 15:15:14
6	user3	1	bad	2023-03-14 14:45:24	2023-03-18 15:15:14

So user can click their own review as link, then they move to review page and edit or delete their own review.



[Home](#) > [Product Search](#) > [MacBook Air 13.6" \(M2\)](#) > Review

#	Username	Product
1	admin	MacBook Air 13.6" (M2)

Rating

4

niceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error

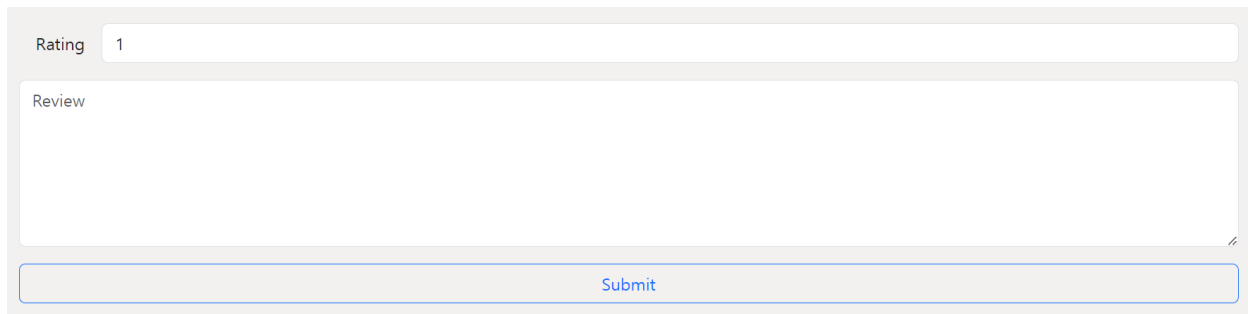
Edit

Delete

If user is disabled and hover its own posts, its color change to red. (if they tried to move to review page by typing a specific url, php code will check session data and if it is not allowed, it will redirect to index.php page)

#	Username	Rating	Review	Posted Date	Updated Date
1	user3	1	badbadbad	2023-03-14 14:45:24	2023-03-18 15:15:14
2	user4	5	nicenice	2023-03-14 14:45:24	2023-03-18 15:15:14

Submit review button changes its color when it is hovered.

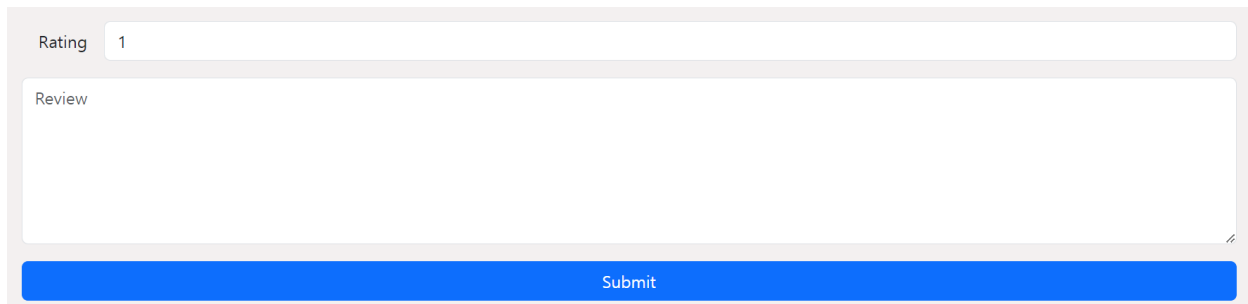


Rating 1

Review

Submit

This form contains a rating input with the value '1' and a large text area for a review. Below the review area is a 'Submit' button with a light blue background and a thin blue border.



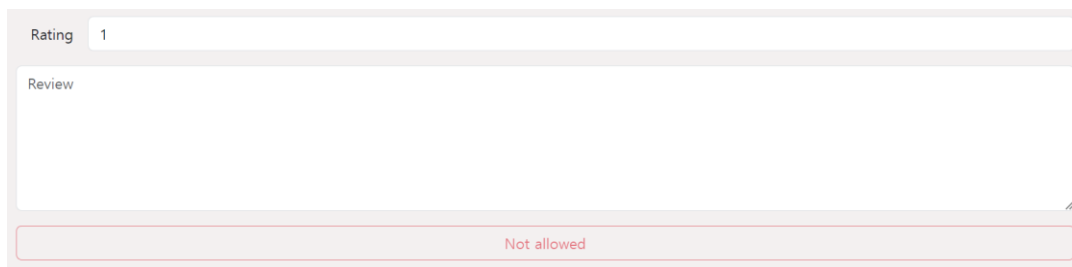
Rating 1

Review

Submit

This form is identical to the one above, but the 'Submit' button has a solid dark blue background and a thin dark blue border.

If user is disabled, submit review button is changed to Not allowed with red color as well.



Rating 1

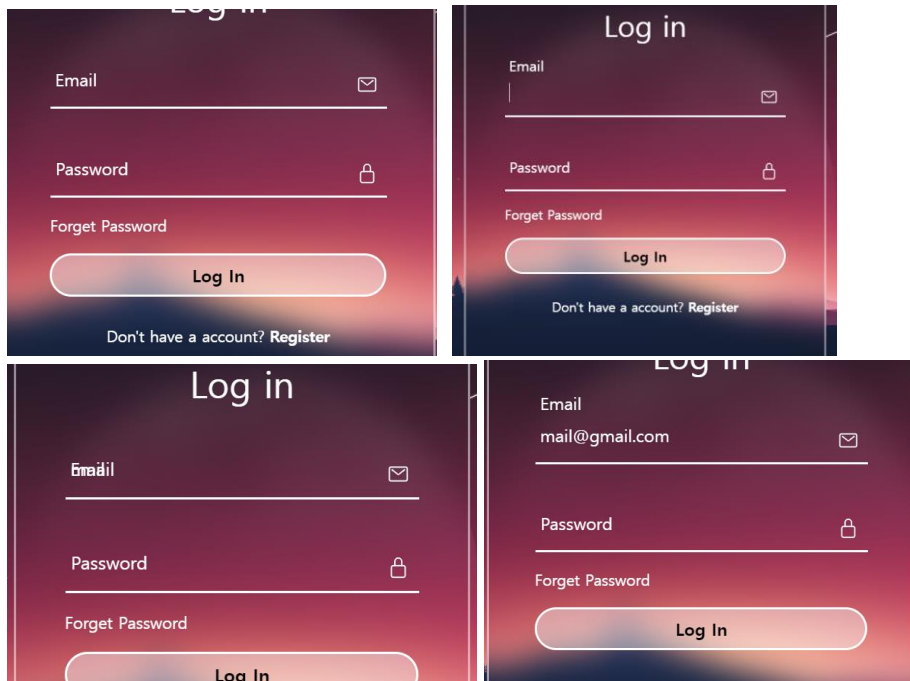
Review

Not allowed

This form is identical to the previous ones, but the button at the bottom is red with the text 'Not allowed' in a lighter red color.

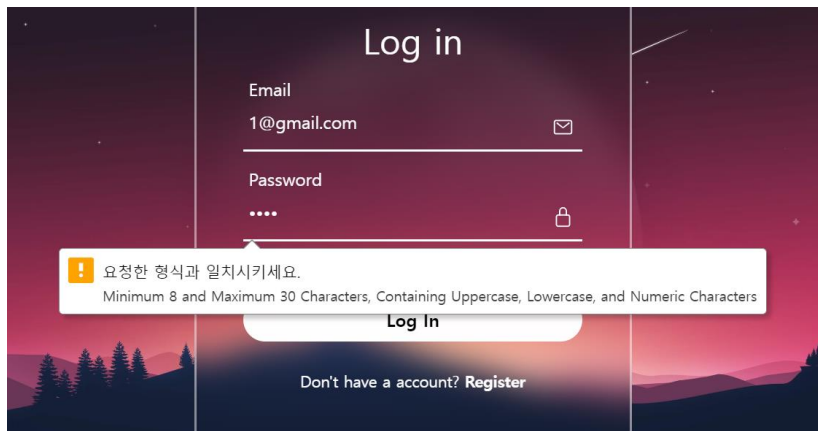
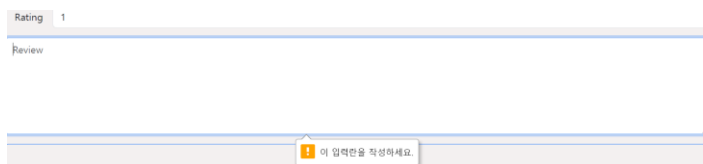
When it is focused or has correct formation of input, the label goes up.

On the contrary, When it is not focused with invalid input, the label goes down.



## # Form validation with JavaScript

When input is empty or invalid, it shows warning message.



## # Server-side scripting with PHP

Basically, this site is created using php. Use php to set up a session, search for and import data, or write a review.

## # Data storage in MySQL

All data is stored using mySQL. There are 3 tables named users, options, and items.

## # Appropriate security for data

By using the prepare() and bind\_param() functions in PHP, the code is able to prevent SQL injection attacks as shown below.

---

```
// Prepare and execute the SQL query
$stmt = $conn->prepare("SELECT * FROM items WHERE id = ?");
// $stmt = $conn->prepare("SELECT * FROM opinions");

$itemId = $_GET['id'];
$stmt->bind_param("i", $itemId);
$stmt->execute();

// Get the result
$result = $stmt->get_result();
```

## # Site must maintain state (user state being logged on, etc)

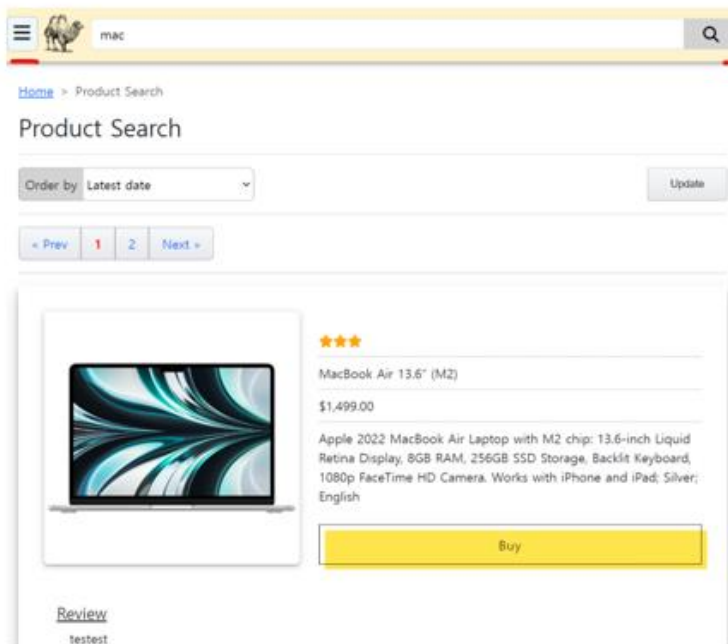
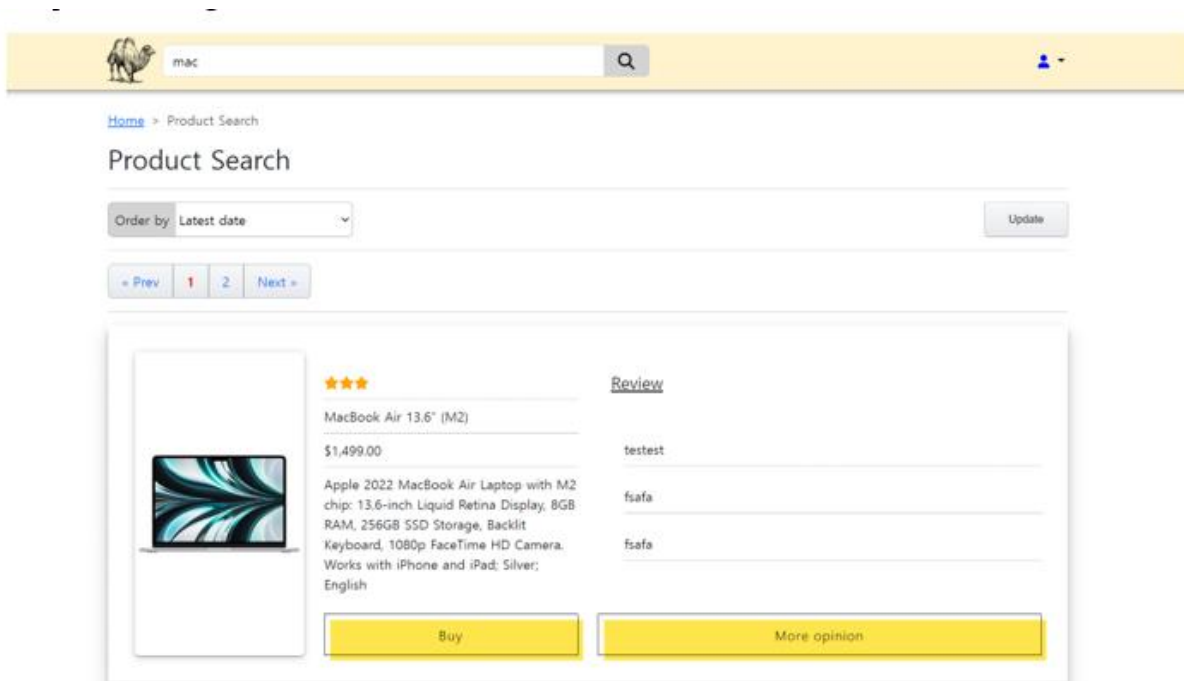
The codes of page files start with session start() as shown below so can always check and manage state maintenance.

---

```
<?php
// Start session
session_start();
```

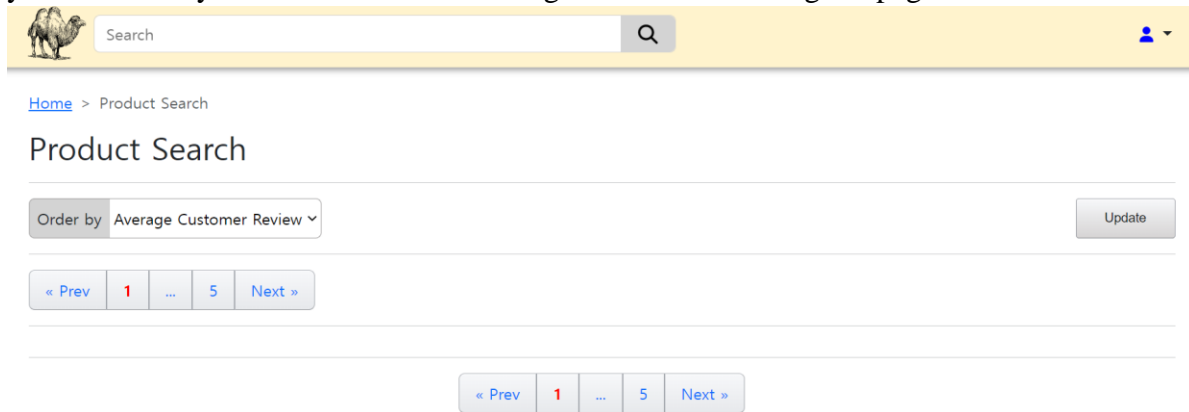
---

# Responsive design philosophy (minimum requirements for different non-mobile display sizes)



# AJAX (or similar) utilization for asynchronous updates (meaning that if a discussion thread is updated, another user who is viewing the same thread will not have to refresh the page to see the update)

Item lists are imported asynchronously using AJAX. When the Internet speed is adjusted slowly, you can directly see that the item list changes without reloading the page.

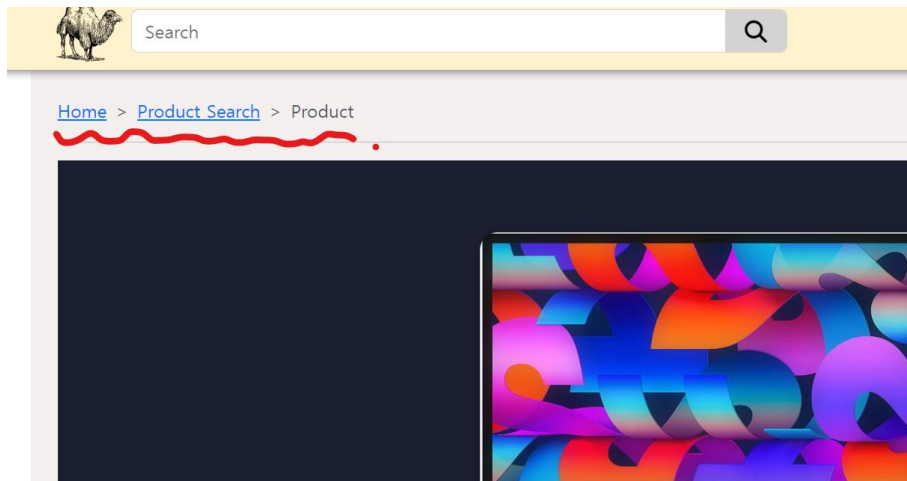


# User profile stored in database.

User information is stored in the database. Each user has an id, email, username, password, status, account creation date.



# Navigation breadcrumb strategy (i.e. user can determine where they are in threads)



# Error handling (bad navigation)

If an unauthorized user tries move to a specific page that needs authorization by typing a certain url, it is automatically moved to index.php page using the header function in php file.

```
// Start session
session_start();

// Check if user is already logged in
if (!isset($_SESSION['user_id']) || $_SESSION['status'] == 0) {
    // Redirect to authorized page
    header("Location: ./index.php");
    exit();
}
```

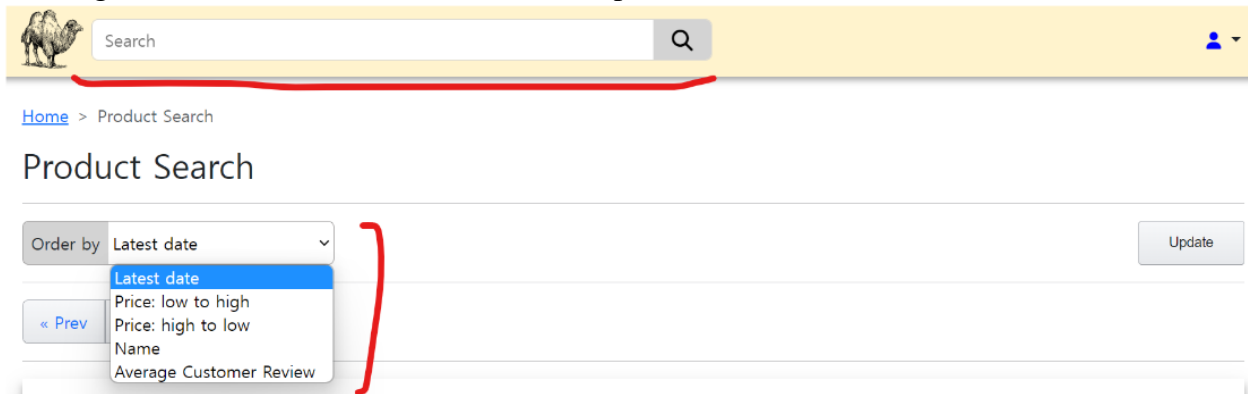
## Additional Requirements:

# Search and analysis for topics/items

# Hot threads/hot item tracking

This site allows users to search and analyze topics/items using a search bar and select options.

“Average Customer Review” will show most reputable items first, which is hot items.



# Activity by date

Posted date will set with current timestamp as default.

Updated date will set with 0 when it is first posted since it means it is never updated.

But when it is updated, it will set with current timestamp as default.

#	Username	Rating	Review	Posted Date	Updated Date
1	user0	1	testest	2023-03-19 17:00:17	2023-03-19 17:00:17
2	user0	5	fsafa	2023-03-14 18:08:04	2023-03-18 15:15:14
3	user0	5	fsafa	2023-03-14 18:07:40	2023-03-18 15:15:14
4	user0	4	niceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seqniceLorem ipsum dolor sit amet consectetur adipisicing elit. Quos voluptatem laudantium quo magnam! Beatae repudiandae maiores, debitis, expedita aliquam magni, aut doloremque error veritatis a impedit seq	2023-03-14 14:45:24	2023-03-18 15:15:14

## # Collapsible items/treads without page reloading

User can see next page data set using pagination without reloading the page.

« Prev


1

2

...

5

Next »



☆☆

Apple 2020 MacBook Air Laptop: Apple M1

\$1,699.00

Apple 2020 MacBook Pro with Apple M1 Chip (13-inch, 8GB RAM, 256GB SSD Storage) - Space Gray

Buy

[Review](#)

good

sadfa

fsdfs

More opinion

« Prev

1


...

3

...

5

Next »



☆☆

iMac (24" 7-core GPU)

\$1,949.00

Apple 2021 iMac (24-inch, Apple M1 chip with 8-core CPU and 8-core GPU, 8GB RAM, 256GB) - Blue - English




Buy

[Review](#)

More opinion

The administrator can fold and unfold certain form elements to modify the product's information. Input elements currently have data of the product as a default.

The same approach is utilized while adding products, wherein the default value is an empty string.



[Home](#) > [Product Search](#) > Product

Unfold

[Home](#) > [Product Search](#) > Product

Title MacBook Air 13.6" (M2)

\$ 1499.99 .00

Purchase Link URL [https://www.amazon.ca/dp/B0B4DY72M4/ref=fs\\_a\\_i\\_0](https://www.amazon.ca/dp/B0B4DY72M4/ref=fs_a_i_0)

Fold



Search



[Home](#) > [Product Search](#) > Product

Title MacBook Air 13.6" (M2)

\$ 1499.99 .00

Purchase Link URL [https://www.amazon.ca/dp/B0B4DY72M4/ref=fs\\_a\\_i\\_0](https://www.amazon.ca/dp/B0B4DY72M4/ref=fs_a_i_0)

Image Link URL [https://m.media-amazon.com/images/W/IMAGERENDERING\\_521856-T1/images/I/71eXNIDUGjL\\_AC\\_SX679\\_.jpg](https://m.media-amazon.com/images/W/IMAGERENDERING_521856-T1/images/I/71eXNIDUGjL_AC_SX679_.jpg)

Description

STRIKINGLY THIN DESIGN — The redesigned MacBook Air is more portable than ever and weighs just 2.7 pounds. It's the incredibly capable laptop that lets you work, play or create just about anything — anywhere.

Details

Apple 2022 MacBook Air Laptop with M2 chip: 13.6-inch Liquid Retina Display, 8GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone and iPad; Silver; English

Edit Info

Delete Item

Fold

## # Styling flourishes

To create various styles, CSS grammar related to style changes such as keyframe and transition was used.

## # Responsive layout for mobile

