

COSC360

UBCO

Feb 27, 2023

Gyumin Moon

Harshall

Server-Side Proposal

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:

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

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

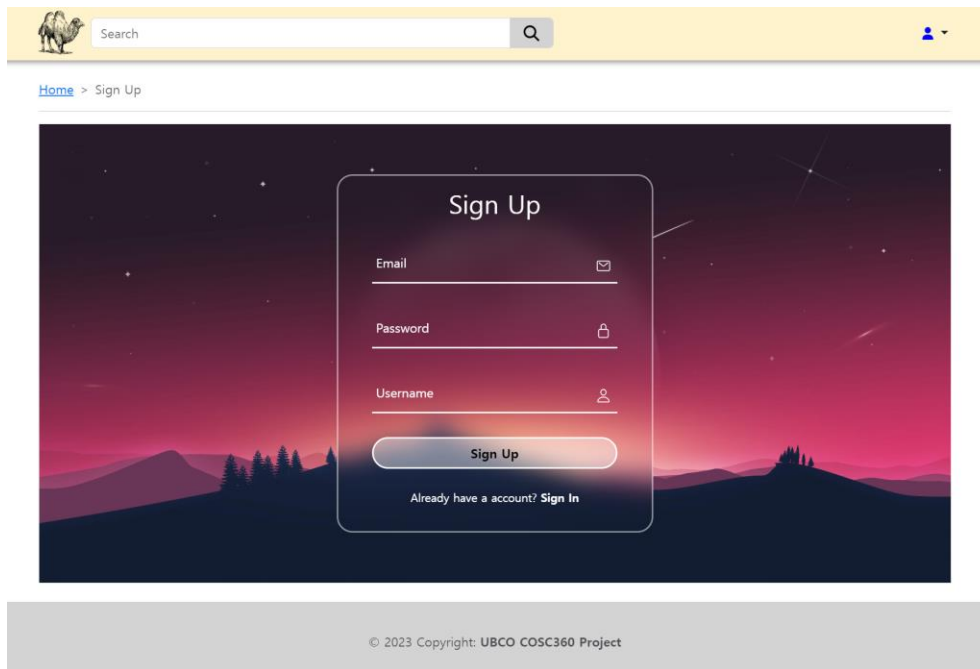
Review

fsafa

fsafa

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

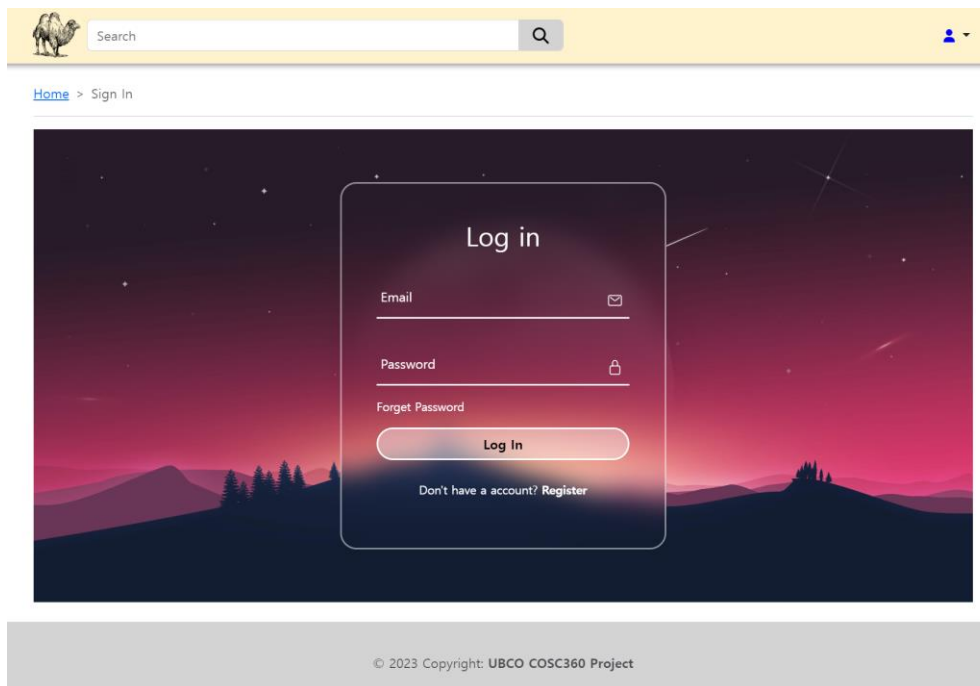
/page/signup.php



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, scenic background with a central white "Sign Up" form. The form includes input fields for "Email" (with an envelope icon), "Password" (with a lock icon), and "Username" (with a person icon). A "Sign Up" button is positioned below these fields, and a link "Already have an account? Sign In" is at the bottom of the form. The footer is a grey bar with the text "© 2023 Copyright: UBCO COSC360 Project".

Allow user login by providing user id and password.

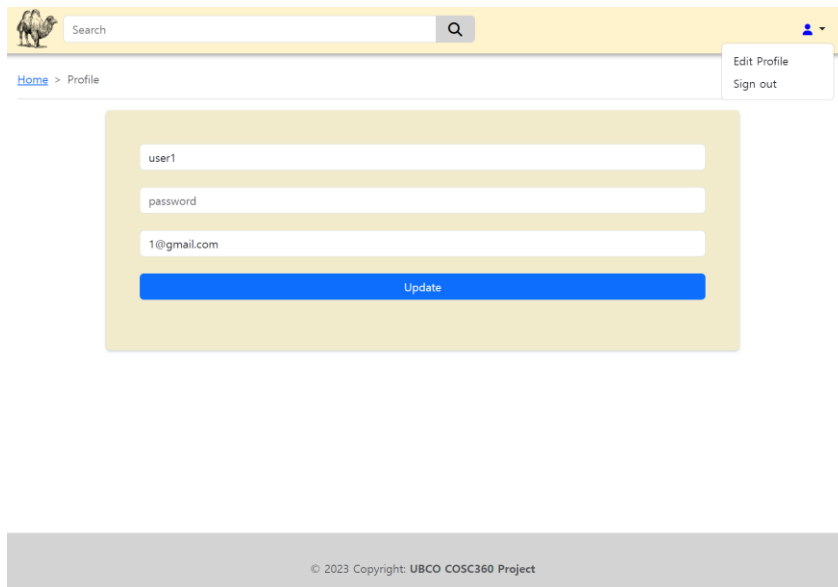
/page/login.php



The screenshot shows a web application interface for a login page. It has the same yellow header bar with a search bar and user profile icon as the sign-up page. The breadcrumb trail reads "Home > Sign In". The main content area has a dark, scenic background with a central white "Log in" form. The form includes input fields for "Email" (with an envelope icon) and "Password" (with a lock icon). Below these fields is a "Forget Password" link. A "Log In" button is positioned below the password field, and a link "Don't have an account? Register" is at the bottom of the form. The footer is a grey bar with the text "© 2023 Copyright: UBCO COSC360 Project".

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

/page/profile.php



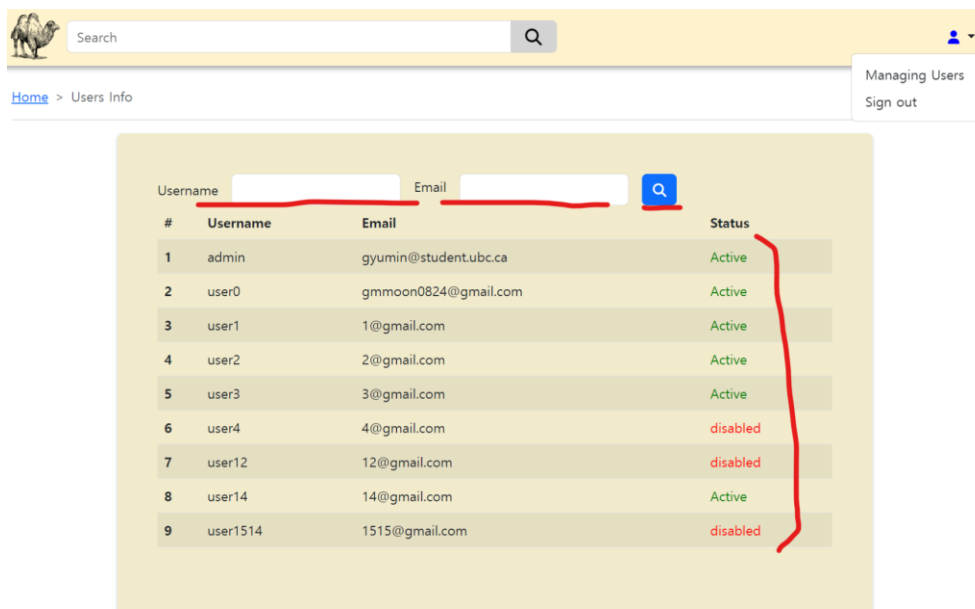
The screenshot shows the user profile page. At the top, there is a search bar with a camel icon and a search button. Below the search bar, there is a navigation bar with a link to "Home" and a link to "Profile". On the right side of the navigation bar, there is a user profile icon with a dropdown menu containing "Edit Profile" and "Sign out". The main content area contains a form with three input fields: "user1", "password", and "1@gmail.com". Below the input fields is a blue button labeled "Update". At the bottom of the page, there is a footer with the text "© 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



The screenshot shows the user management page. At the top, there is a search bar with a camel icon and a search button. Below the search bar, there is a navigation bar with a link to "Home" and a link to "Users Info". On the right side of the navigation bar, there is a user profile icon with a dropdown menu containing "Managing Users" and "Sign out". The main content area contains a table with the following columns: "#", "Username", "Email", and "Status". The table contains 9 rows of user data. A red line is drawn across the "Username" and "Email" columns, and a red bracket is drawn around the "Status" column.




#	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

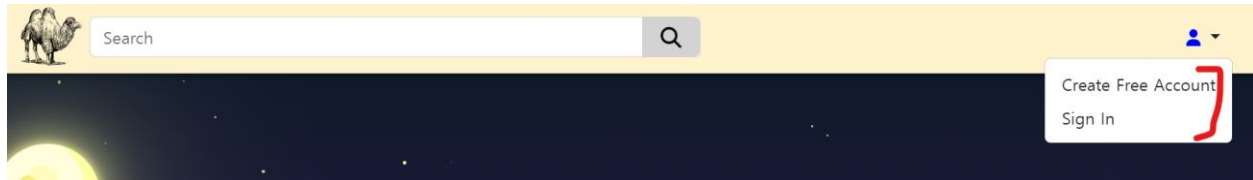
Edit

Delete

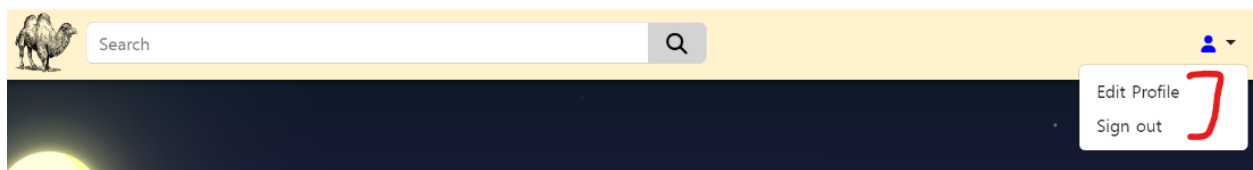
Minimum Functional Requirements:

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).

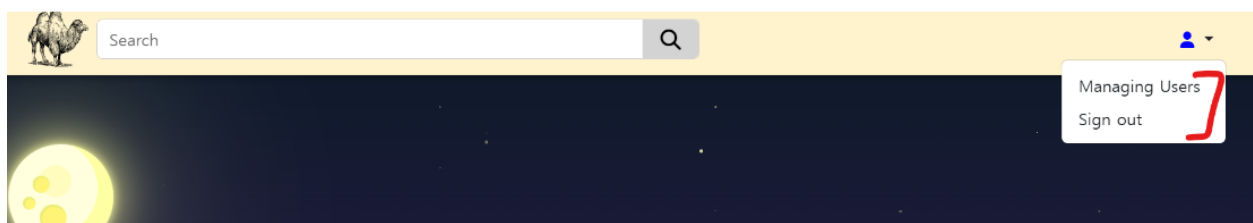
1. Unsigned user view



2. Signed user view

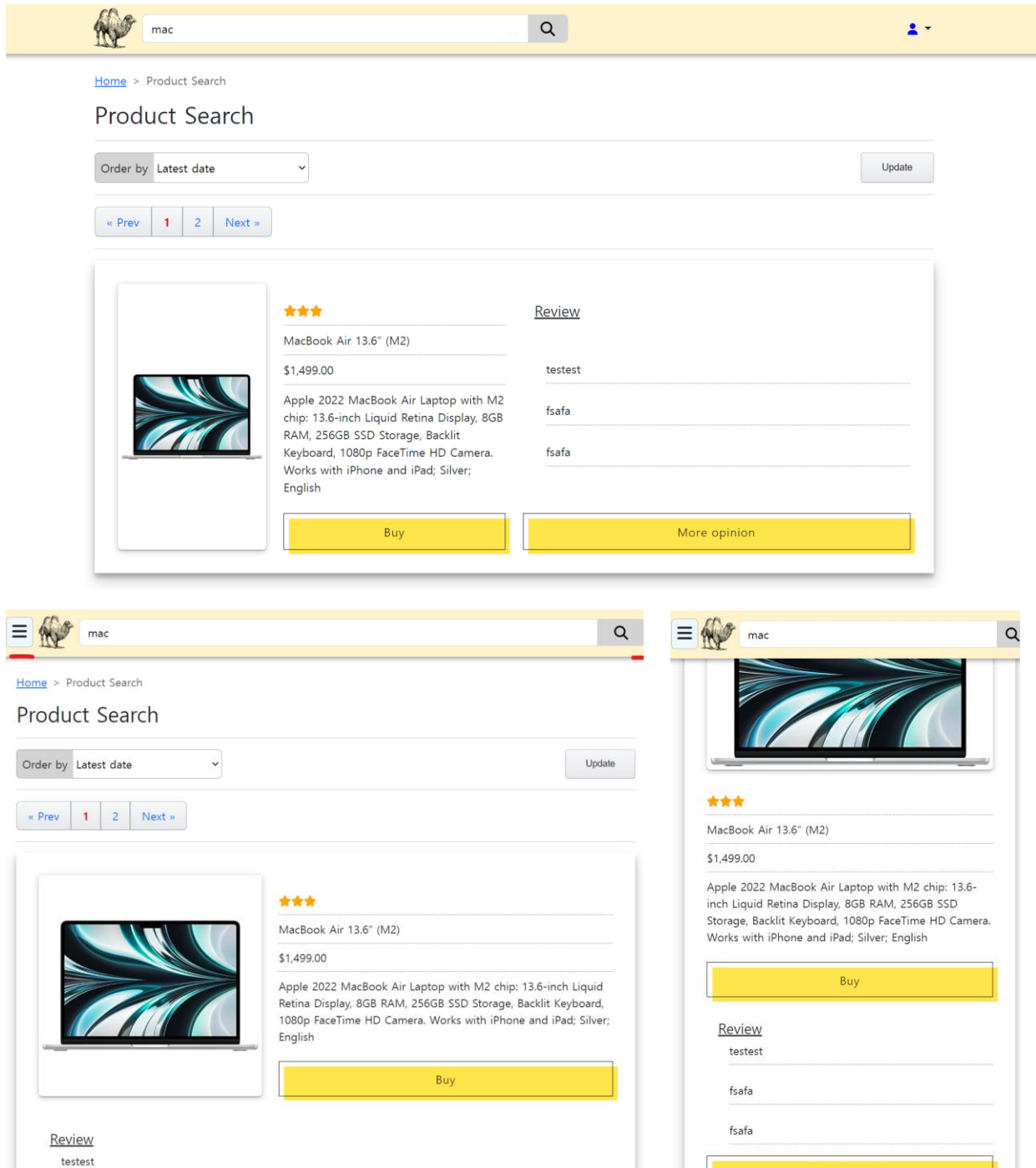


3. Administrator view



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

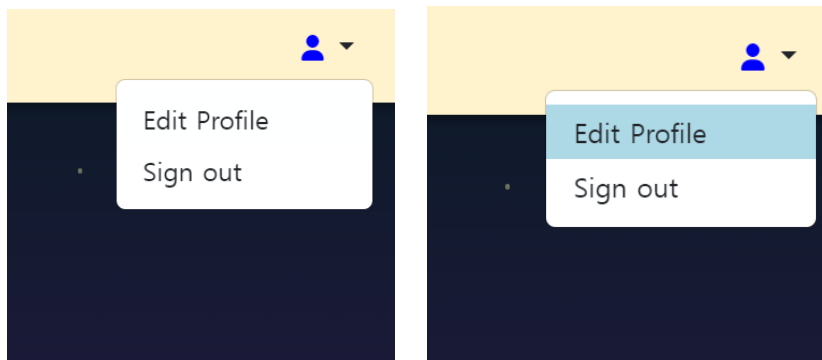
Responsive design



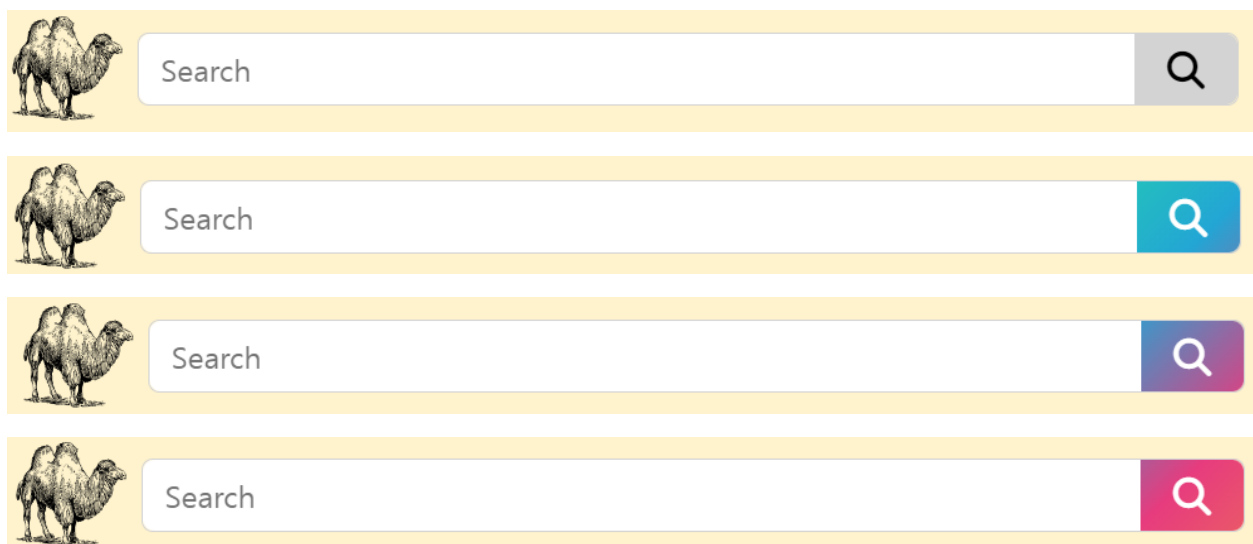
When hover “LET’S DIVE IN” button, it is filled with blue from the lower left corner to upper right corner.



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.



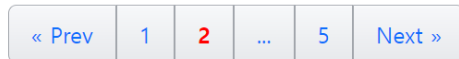
When hover pagination button, it gets to has shadow.

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



Total number of pages: 5

Current page: 2



Current page: 3



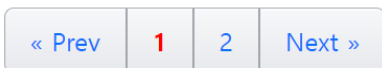
Total number of pages: 1

Current page: 1



Total number of pages: 2

Current page: 1

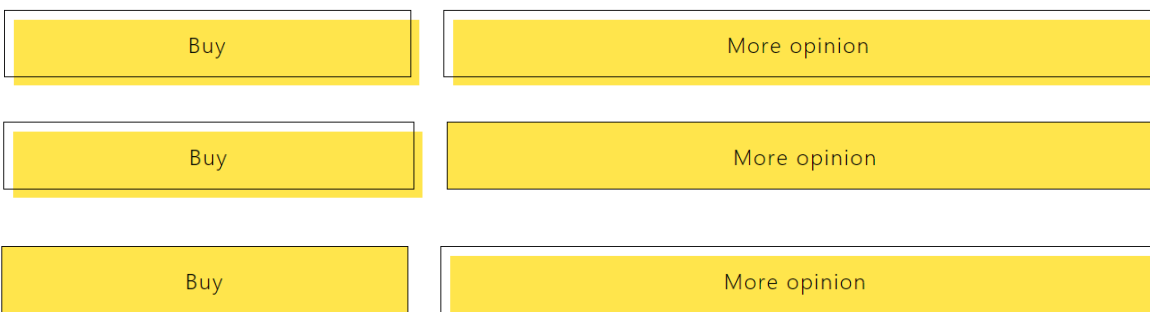


Total number of pages: 4

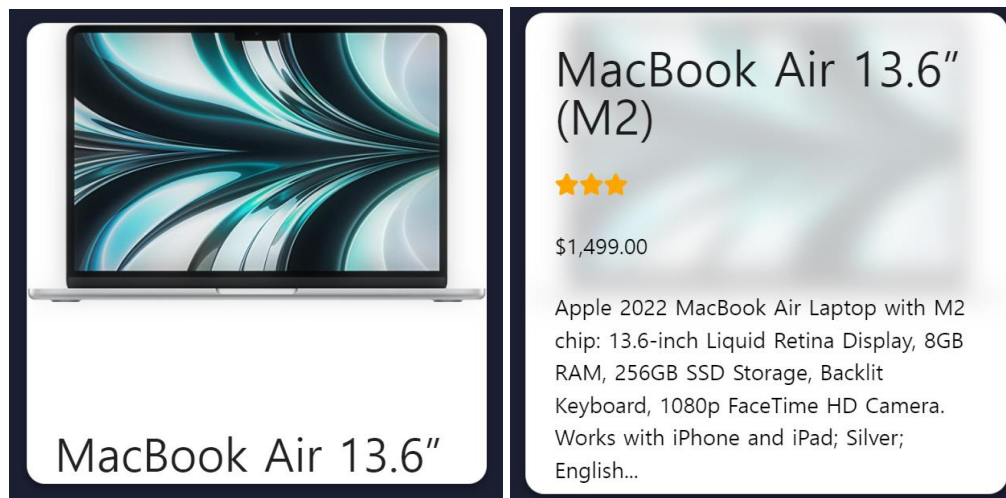
Current page: 3



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.



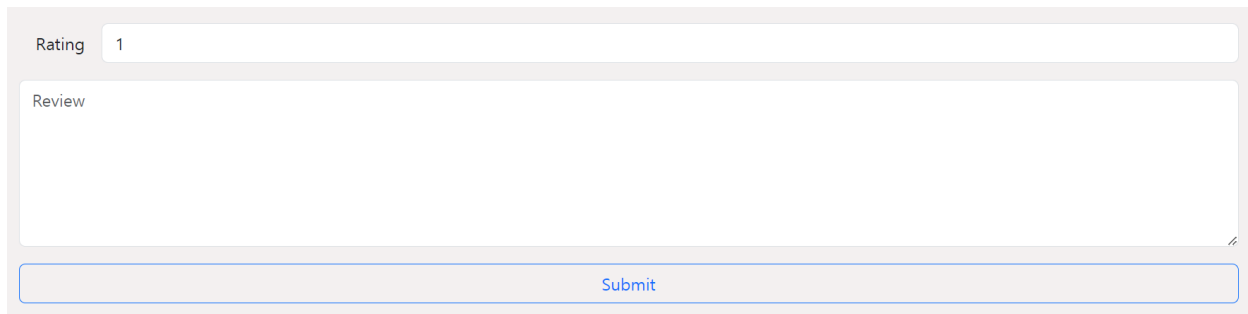
When hover user own review at product.php page, its color change to blue.

#	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

If user is disabled and hover its own posts, its color change to red

#	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.

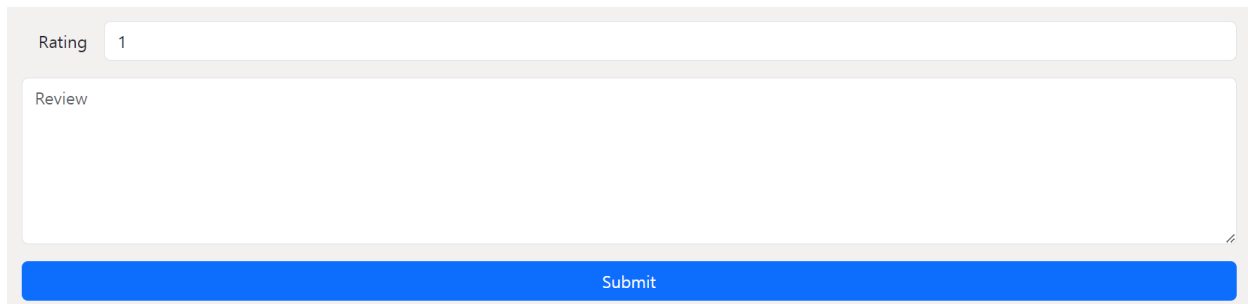


Rating 1

Review

Submit

This form contains a rating input set to '1' and a large text area for a review. Below the review area is a light gray button with the text 'Submit' in blue. The button has a thin blue border and rounded corners.



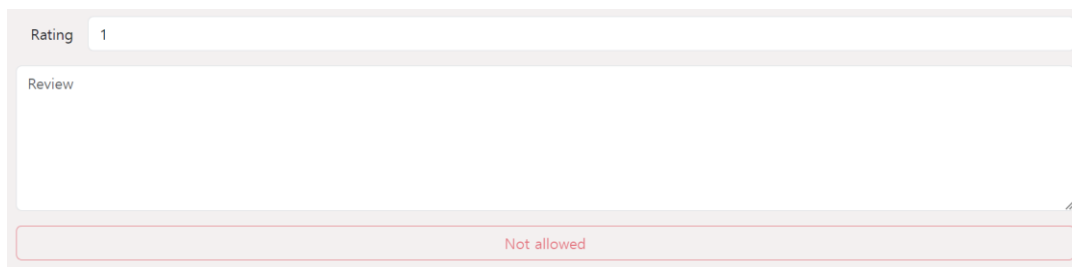
Rating 1

Review

Submit

This form is identical to the one above, but the 'Submit' button is a solid blue color, indicating it is in a hovered state.

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



Rating 1

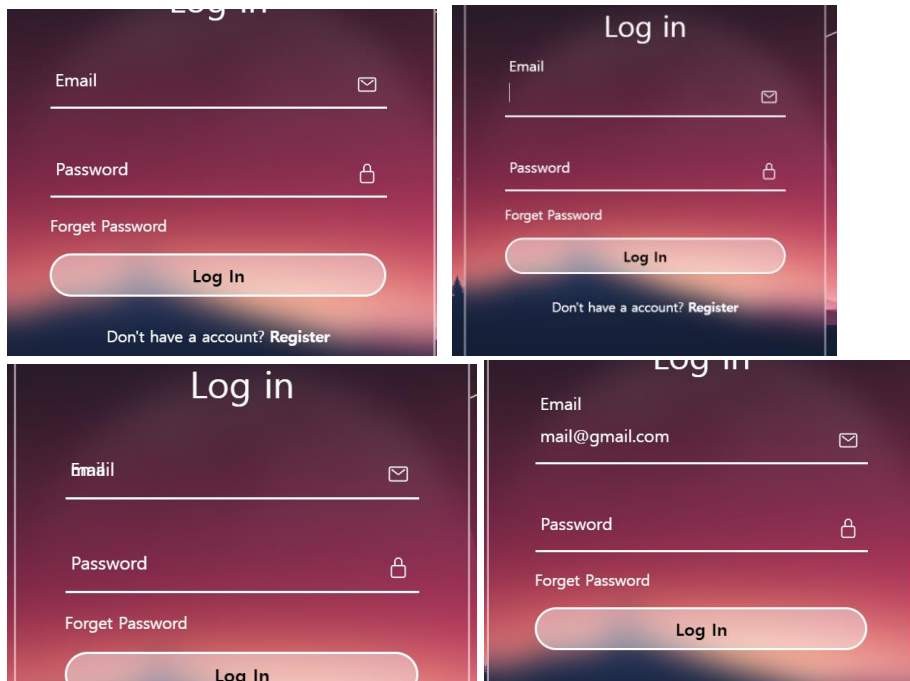
Review

Not allowed

This form is identical to the previous ones, but the button is light red with the text 'Not allowed' in red, indicating that the user is disabled.

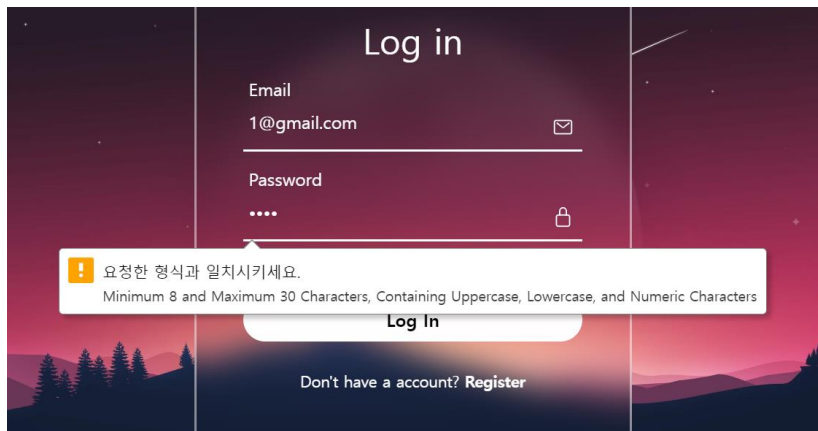
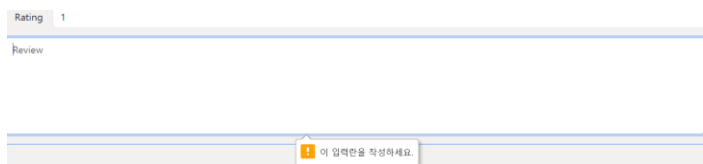
When it is focused or has correct formation of input, the label goes up.

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 is a table of 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();

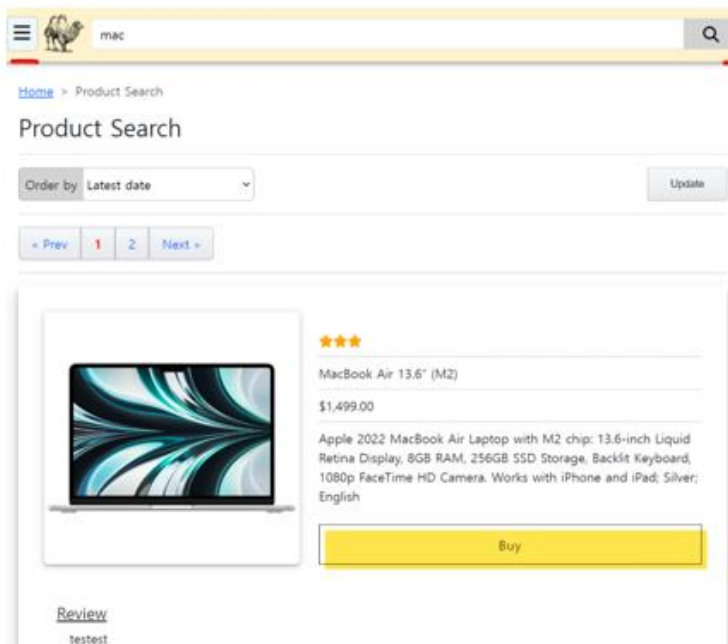
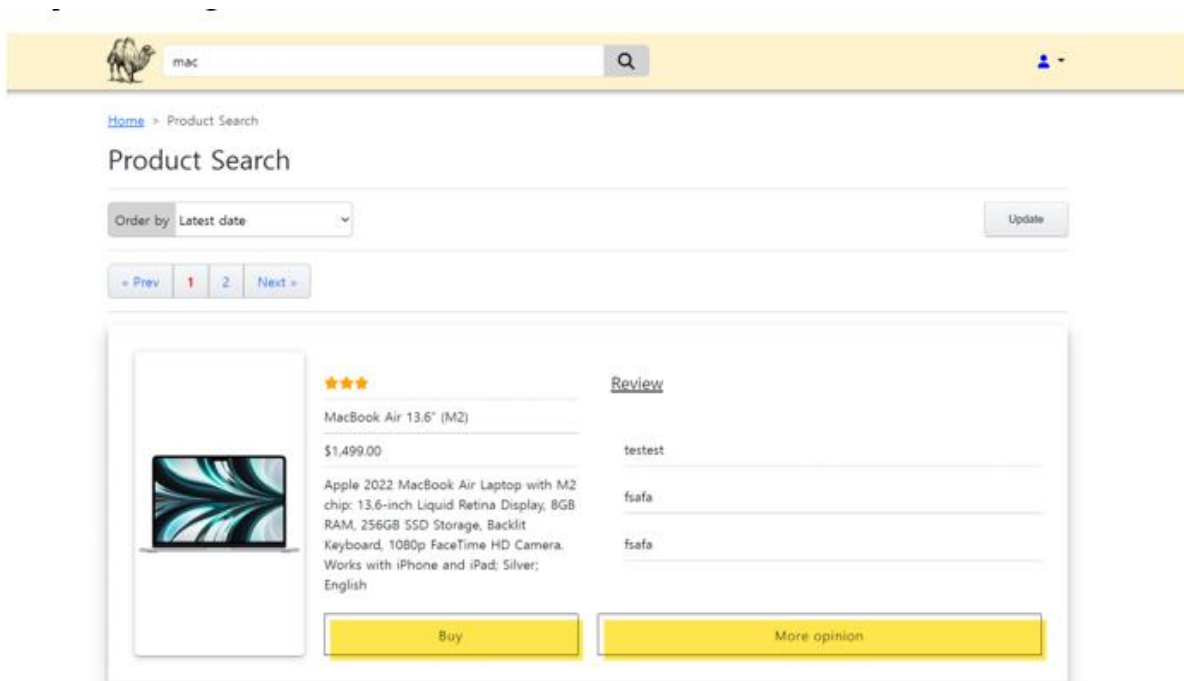
// Get the result
$result = $stmt->get_result();
```

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();
```

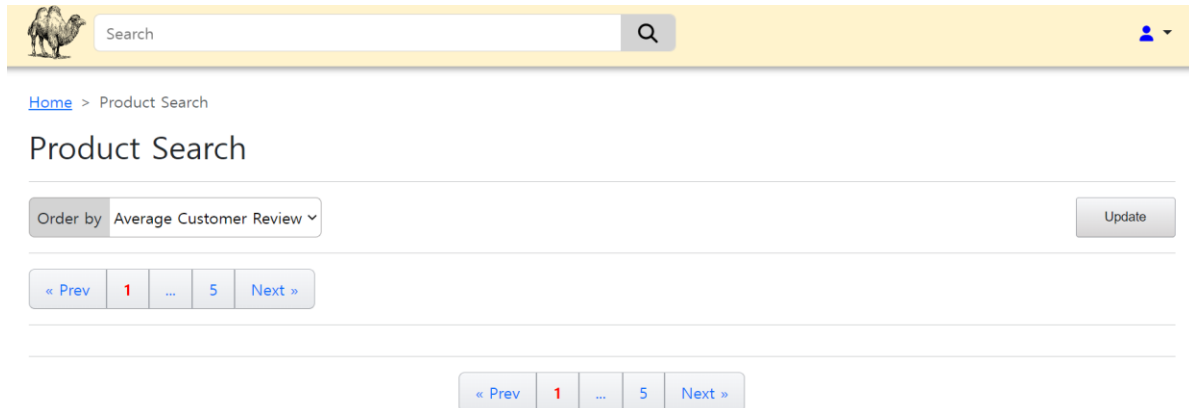
Responsive design philosophy (minimum requirements for different non-mobile display sizes)



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.

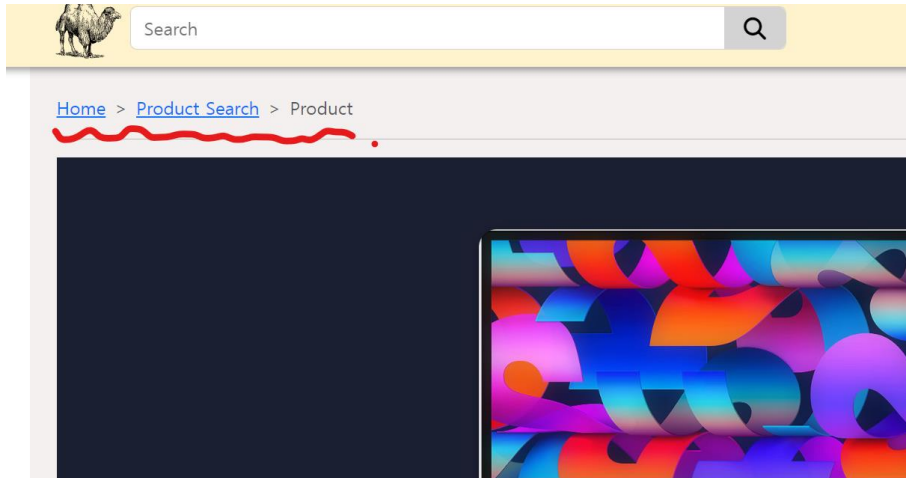
Setinterval is used with callback function which is ajax and 100sec timer so it keeps automatically updating every 100sec so user can see updating without renewing the page.



User profile stored in database.

User information is stored in the database. A 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 to use url to move to a specific page, it is automatically moved to index.php using the header function in php.

```
// 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();
}
```

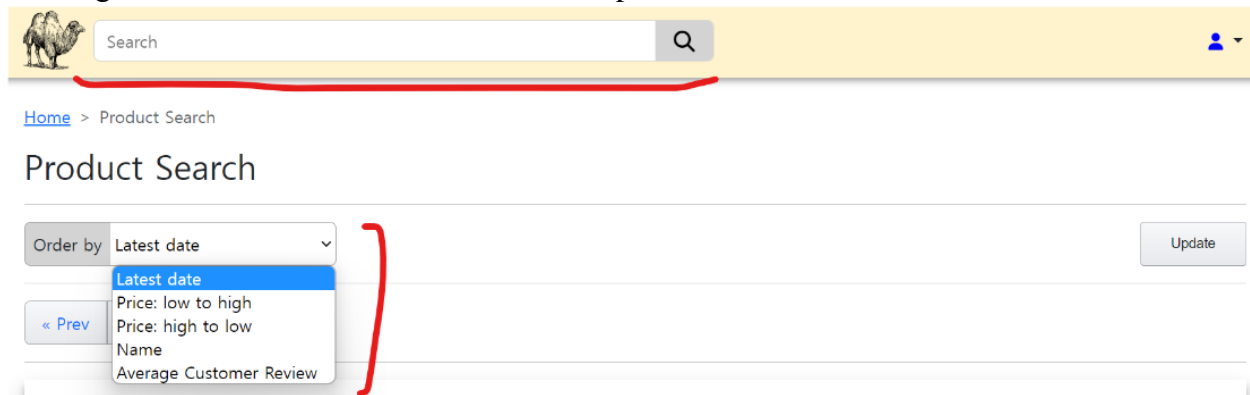
Additional Requirements:

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

#	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 data set from the next offset 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

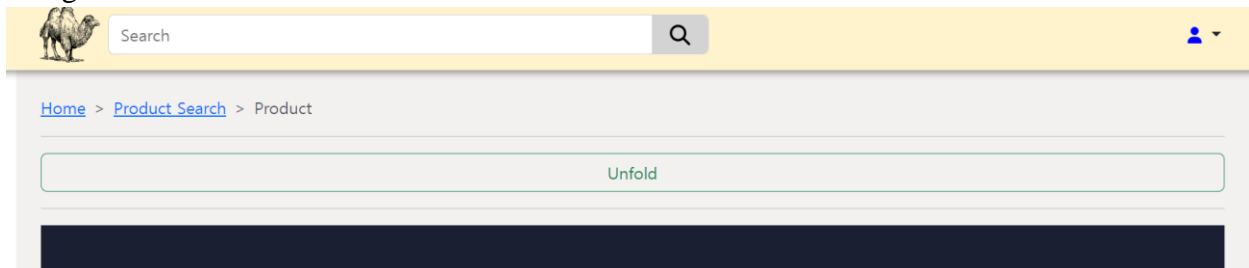
Buy

[Review](#)

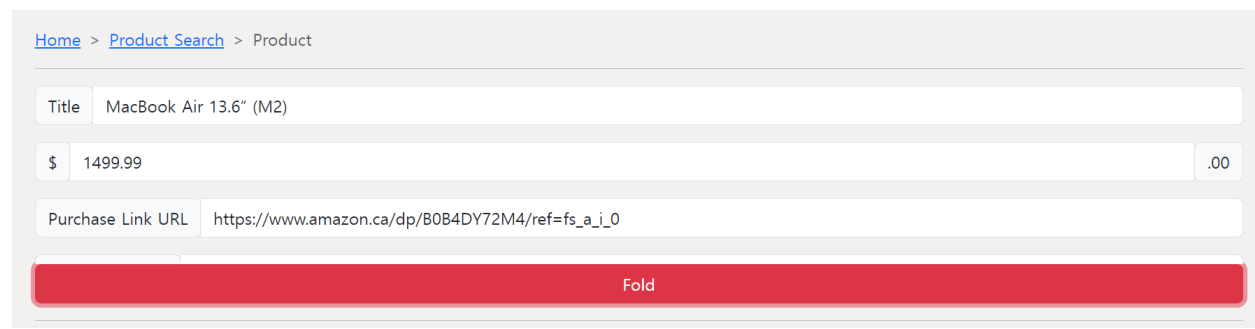
More opinion

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.



The screenshot shows the top navigation bar of a web application. On the left is a camel logo. In the center is a search bar with the placeholder text "Search" and a magnifying glass icon. On the right is a user profile icon. Below the navigation bar is a breadcrumb trail: [Home](#) > [Product Search](#) > Product. Below the breadcrumb is a light gray rectangular button with the text "Unfold". Below the button is a solid dark blue horizontal bar.



The screenshot shows a form for adding or editing a product. It has the same breadcrumb trail as the previous image: [Home](#) > [Product Search](#) > Product. The form contains three input fields: "Title" with the value "MacBook Air 13.6" (M2)", a price field with a dollar sign icon, the value "1499.99", and a ".00" suffix, and "Purchase Link URL" with the value "https://www.amazon.ca/dp/B0B4DY72M4/ref=fs_a_i_0". Below these fields is a red rectangular button with the text "Fold".



[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

Image Link URL

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

In order to create various styles, css grammar related to style changes such as keyframe and transition was used.

Responsive layout for mobile


[Home](#) > Product Search

Product Search

Order by Latest date

Update

[< Prev](#) [1](#) [2](#) [Next >](#)



★★★★

MacBook Air 13.6" (M2)

\$1,499.00

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

Buy


[Review](#)


testtest

fsafa

fsafa

More opinion

 mac




[Home](#) > Product Search

Product Search

Order by Latest date

Update

[< Prev](#) [1](#) [2](#) [Next >](#)



★★★★

MacBook Air 13.6" (M2)


\$1,499.00


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


Buy

[Review](#)

testtest

 mac





★★★★

MacBook Air 13.6" (M2)

\$1,499.00

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

Buy

[Review](#)

testtest

fsafa

fsafa

More opinion