

# Technical Design

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SE 265.15

Website name: PlugIn

# Strategy

## What is it?

PlugIn is a website that allows users to view products listed by other users. If they decide to make a purchase, they are able to create an account and put a request in for that product, which opens up the interactive messaging system for further discussion/negotiating.

## Why are we making it?

PlugIn allows users to interact when selling products, while keeping their personal identity private. The majority of online-selling based websites are linked to private social media accounts, where as ours remains separate.

## Who is it for?

Our website, PlugIn, is for everyone. It will act as a hub for all users who are looking to purchase or sell items. Whether it's local or not, It is up to them.

# Features

1. Customizable user profiles.
2. Shop and request for products.
3. Sell your own products.
4. Interact and negotiate your request, via messaging.

## Technologies Used

### Languages

PHP/HTML/CSS/Javascript

*php*



JS

## Open Source & Version Control

Github



## Folder Summary

### Plugin Folder

- a. This folder is the main container (parent folder) of the project, and every aspect of the website will be

contained within it. Including files that can be accessed prior to login.

### **Backend Folder**

- a. This folder will contain all of the core systems of the website, outside of the login and signup pages.

### **Model Folder**

- a. The Model folder contains the userController.php file. This file is critical for database connection with the MySQL server, and critical PHP methods for CRUD implementation.

### **Include Folder**

- a. The Include folder will be a storage to reference throughout different pages. It will contain a 'Stylesheets' folder, a 'Logic' folder, and various other elements that will need to be referenced. For example, header.php or footer.php.

## **File Summary**

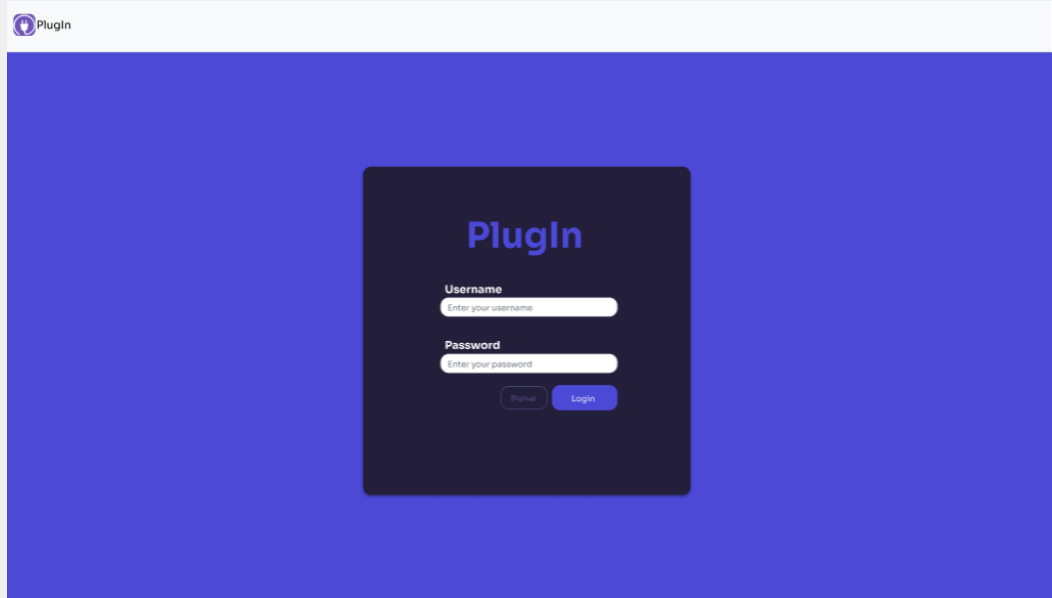
### **PlugIn Folder**

#### **A. Index.php**

- 1. The only purpose of this file is to redirect the user to plugInHome.php

## Login.php

1. The signup button will redirect the user to userSignUp.php
2. The login button will redirect the user to PlugInHome.php



## SignUp.php

3. The signup button in userSignUp.php will redirect to login.php after a successful registration.
4. The Cancel button will redirect the user back to login.php.
5. If the userName is not unique, an error will display "userName is already taken".
6. If the Innies Handle is not unique, an error will display "Innies Handle is already taken".
7. If both the userName and Innies Handle are not unique, an error will display "Both the userName and Innies Handle already exist."

# PlugIn

**Username**

Create a login username, do not share this with anyone.

**Password**

Create a login password, do not share this with anyone.

**Your Innie Handle (@)**

This will be what people on PlugIn see you as.

**State:**

**Sign Up**

# PlugIn

**Username**

Create a login username, do not share this with anyone.

**Password**

Create a login password, do not share this with anyone.

**Your Innie Handle (@)**

This will be what people on PlugIn see you as.

**State:**

**Sign Up**

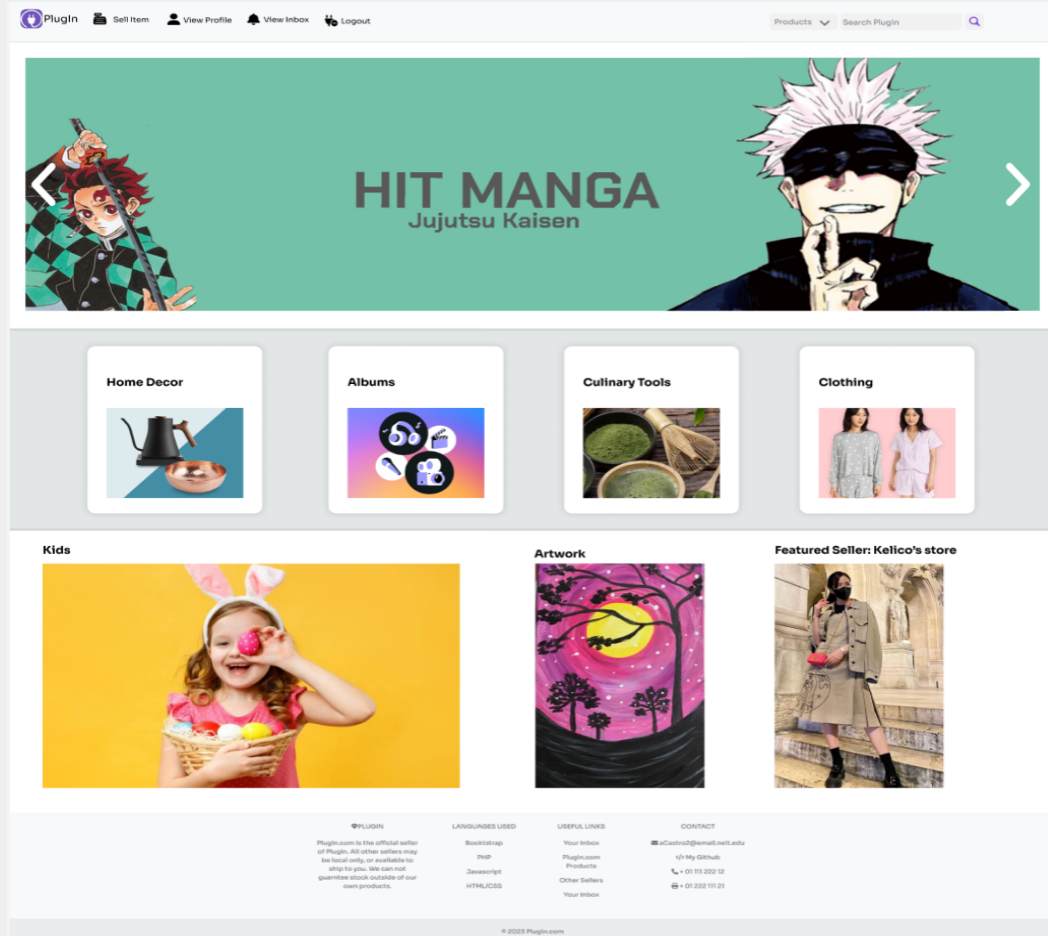
Both Innie handle and username already exist.

**Backend Folder (advanced systems)**

## plugInHome.php

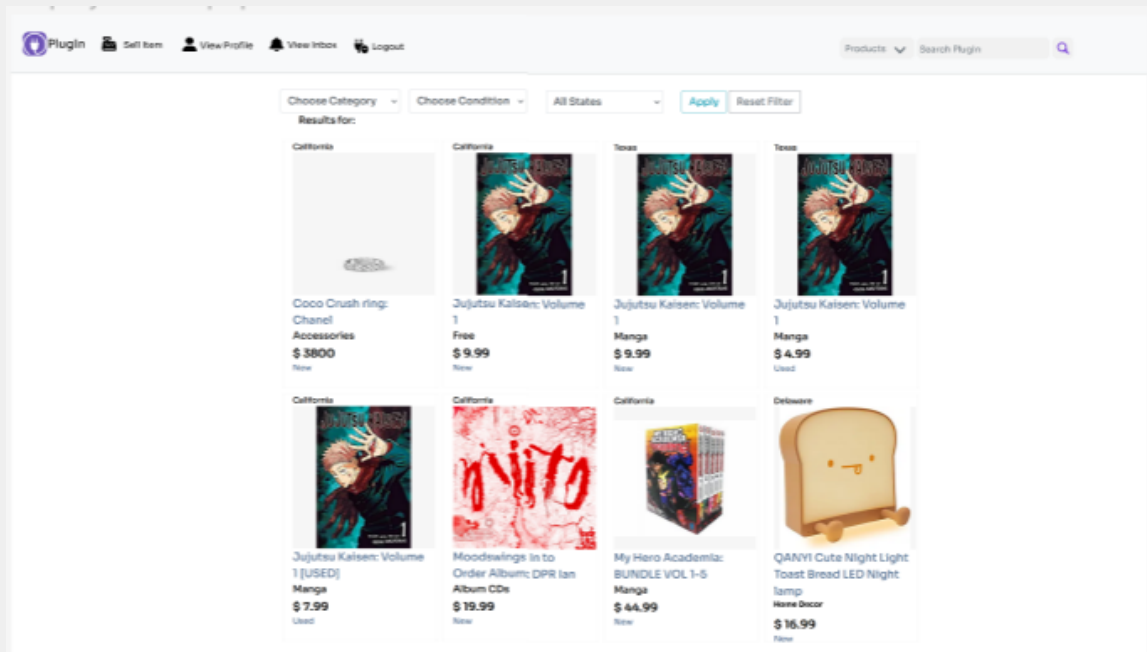
1. The Search bar will redirect the user to displayResults.php
2. The dropdown filter will redirect the user to displayResults.php with product or seller filtering.
3. Thumbnails/featured images are clickable.
4. Sell item leads to postListing.php
5. Profile leads to viewProfile.php
6. View Inbox leads to viewInbox.php
7. Logout destroys the session, and redirects back to plugInHome.php.
8. Clicking on an image in plugInHome.php will redirect the user to displayResults.php where the results are relevant to the image clicked. (Ex. Clicking the “Hit Manga” carousel image, will redirect them to displayResults.php with a filter of Manga products.)





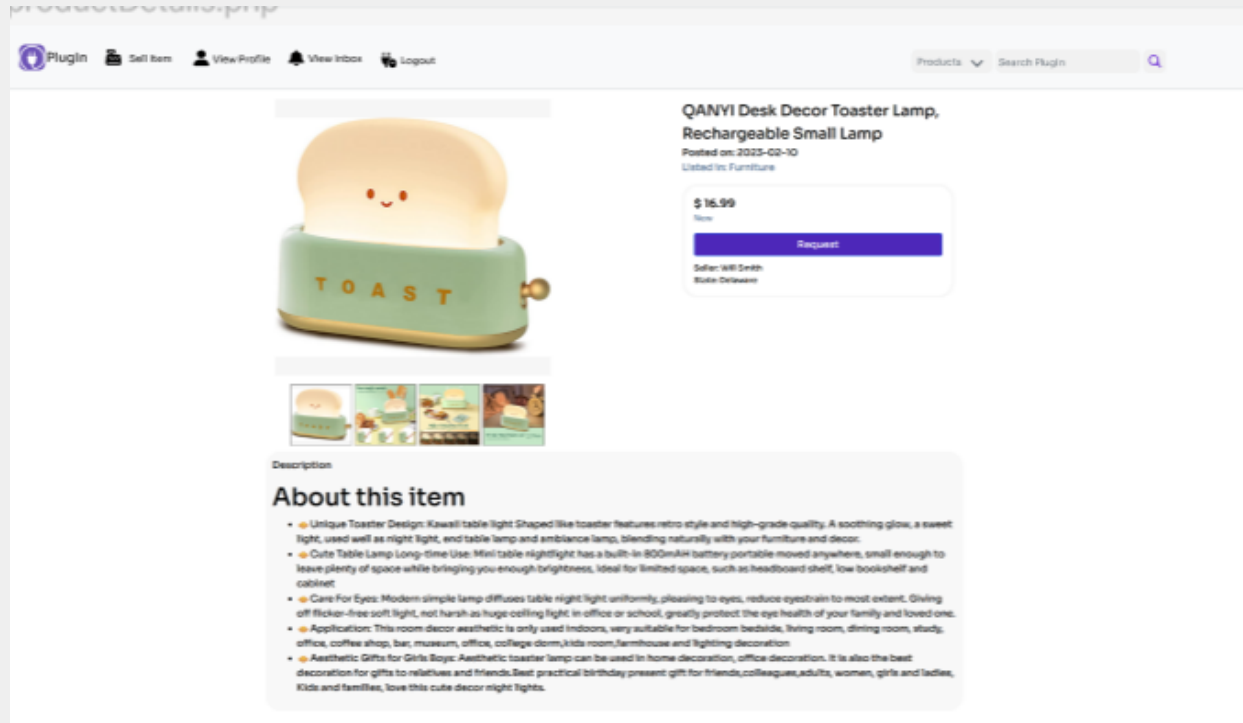
## displayResults.php

1. Show the results based upon the criteria searched.
2. Clicking on product brings user to productDetails.php
3. Clicking on category brings a dropdown of category options to filter products. This is gathered from the plugin\_categories database.
4. Clicking on condition brings a dropdown of condition options to filter products. This is gathered from the plugin\_conditions database.
5. Clicking on state brings a dropdown of state options to filter products. This is gathered from the plugin\_states database
6. Clicking Apply will apply all filters applied.



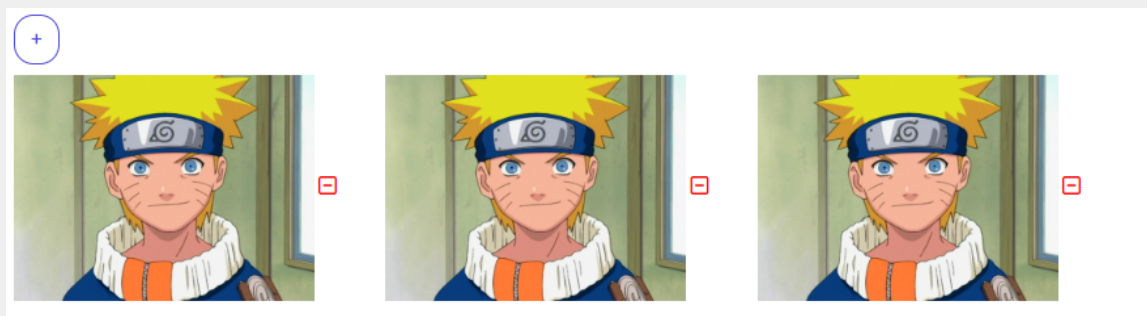
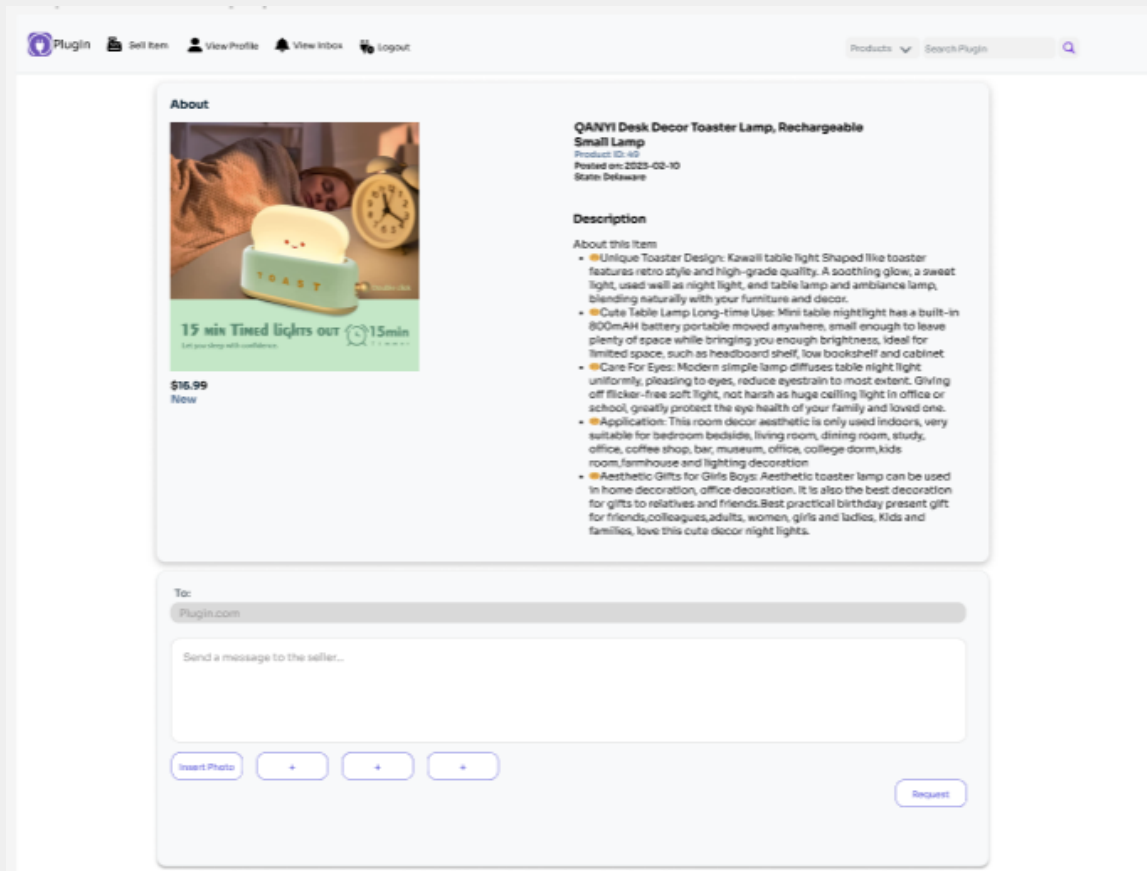
## productDetails.php

1. Request button redirects to requestProduct.php



## requestProduct.php

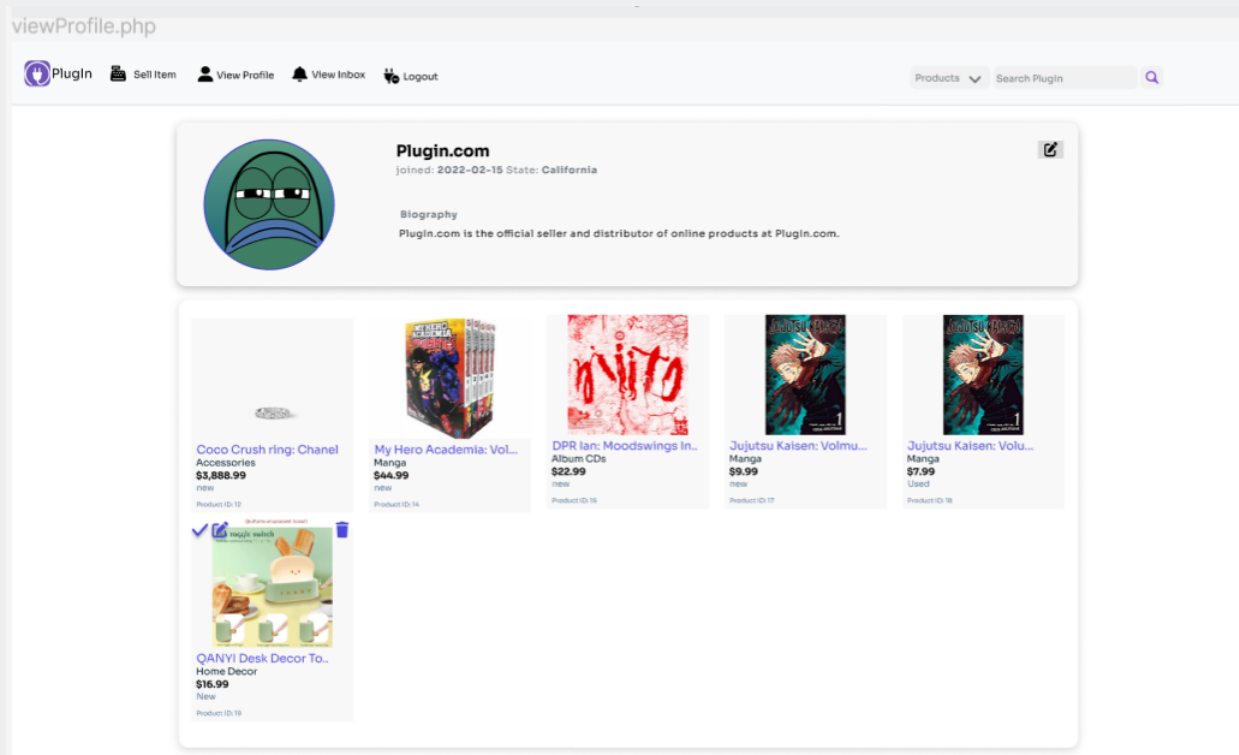
1. Request button sends the product info and message to the seller.
2. Insert Photo opens the user's File Explorer, and allows them to choose a photo to submit.
3. Clicking on the "+" icon acts the same as Insert Photo.
4. There is a limit of 4 photo insert modules, with three being "+" and the first being "Insert Photo".
5. A Thumbnail of the photos will display with a "-" icon next to them, when a photo is inserted. The original "Insert Photo" or "+" module will disappear, until that "-" icon is clicked to remove the inserted photo.



## viewProfile.php

1. The Edit button will redirect the user to editProfile.php
2. The Edit Listing button will redirect the user to EditListing.php
3. The delete listing button will prompt for response, then refresh.

4. Clicking on a product's title will redirect the user to `productDetails.php`, which shows the full product information.



## `editProfile.php`

1. The `Update` button will redirect the user back to `viewProfile.php`
2. The `Cancel` button will redirect the user back to `viewProfile.php`, after prompt response.

editProfile.php

Plugin Sell Item View Profile View Inbox Logout

Products Search Plugin

### Account Information

Login Username  
loginUserName123

Login Password  
\*\*\*\*\*

Home State  
California

Innie name:  
Plugin.com


Biography:  
Plugin.com is the official seller and distributor of online products at Plugin.com.

Change Avie

Cancel Update

## B. editPP.php

1. This is accessed when a user clicks on their profile picture from viewProfile.php. It allows the user to bring up file explorer, and choose a photo for their new profile picture. When a picture is inserted, the current profile picture will be hidden, and the new one will display in that profile picture container. A Check mark will display. If the user clicks the check mark, then the update is applied.



## Plugin.com

Joined: 2023-03-03 State: Rhode Island

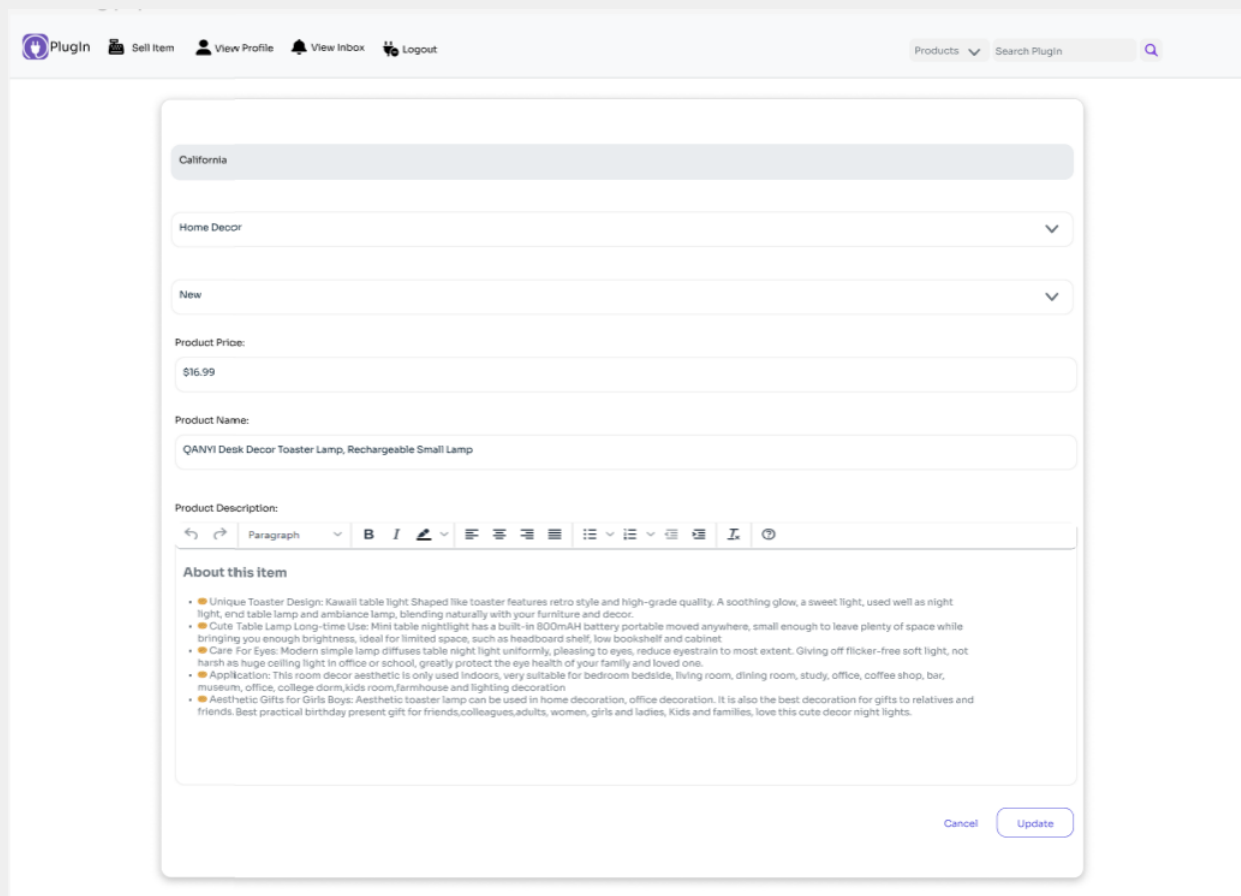
★★★★☆

Biography  
Plugin's official store for premium items at a great value

Check to apply updated picture.

## editListing.php

1. The Update button will redirect the user back to viewProfile.php
2. The Cancel button will redirect the user back to viewProfile.php



The screenshot shows a web application interface for editing a listing. At the top, there is a navigation bar with links: Plugin, Sell Item, View Profile, View Inbox, and Logout. On the right, there are links for Products and Search Plugin. The main form is titled "editListing.php" and contains the following fields:

- Location:** A dropdown menu with "California" selected.
- Category:** A dropdown menu with "Home Decor" selected.
- Condition:** A dropdown menu with "New" selected.
- Product Price:** A text input field containing "\$16.99".
- Product Name:** A text input field containing "QANYI Desk Decor Toaster Lamp, Rechargeable Small Lamp".
- Product Description:** A rich text editor with a toolbar and a text area containing the following text:

**About this item**

  - Unique Toaster Design: Kawaii table light Shaped like toaster features retro style and high-grade quality. A soothing glow, a sweet light, used well as night light, end table lamp and ambience lamp, blending naturally with your furniture and decor.
  - Cute Table Lamp Long-time User: Mini table nightlight has a built-in 800mAh battery portable moved anywhere, small enough to leave plenty of space while bringing you enough brightness, ideal for limited space, such as headboard shelf, low bookshelf and cabinet.
  - Care For Eyes: Modern simple lamp diffuses table night light uniformly, pleasing to eyes, reduce eyestrain to most extent. Giving off flicker-free soft light, not harsh as huge ceiling light. In office or school, greatly protect the eye health of your family and loved one.
  - Application: This room decor aesthetic is only used indoors, very suitable for bedroom bedside, living room, dining room, study, office, coffee shop, bar, museum, office, college dorm, kids room, farmhouse and lighting decoration.
  - Aesthetic Gifts for Girls Boys: Aesthetic toaster lamp can be used in home decoration, office decoration. It is also the best decoration for gifts to relatives and friends. Best practical birthday present gift for friends, colleagues, adults, women, girls and ladies, Kids and families, love this cute decor night lights.

At the bottom right of the form, there are two buttons: "Cancel" and "Update".

## postListing.php

1. The Post button will redirect the user to their viewProfile.php (to view their listings)
2. A Thumbnail of the photos will display with a “-” icon next to them, when a photo is inserted. The original

“Insert Photo” or “+” module will disappear, until that “-” icon is clicked to remove the inserted photo.

Plugin

Sell Item

View Profile

View Inbox

Logout

Products

Search Plugin

California

Choose a Category

Choose a Condition

Product Price: \$9.99

Product Name: Enter product's name

Product Description: Enter product's description

Insert Photo

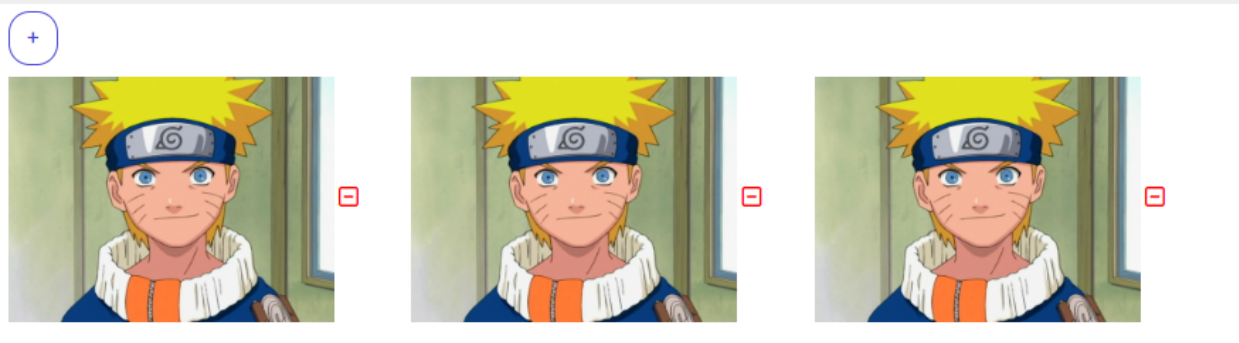
+

+

+

Cancel

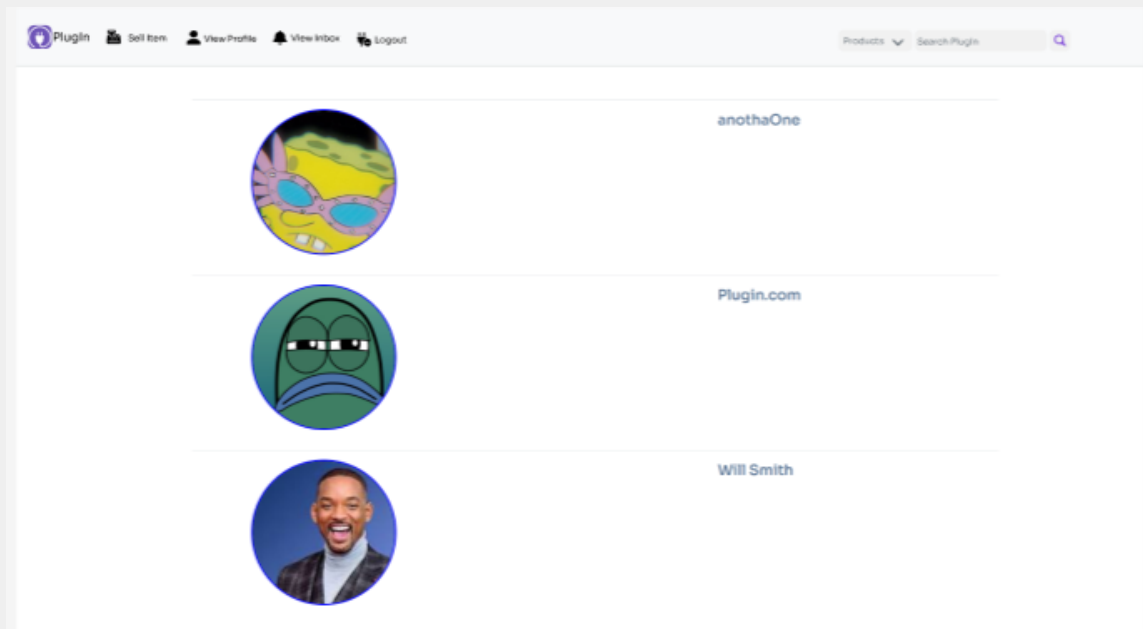
Submit



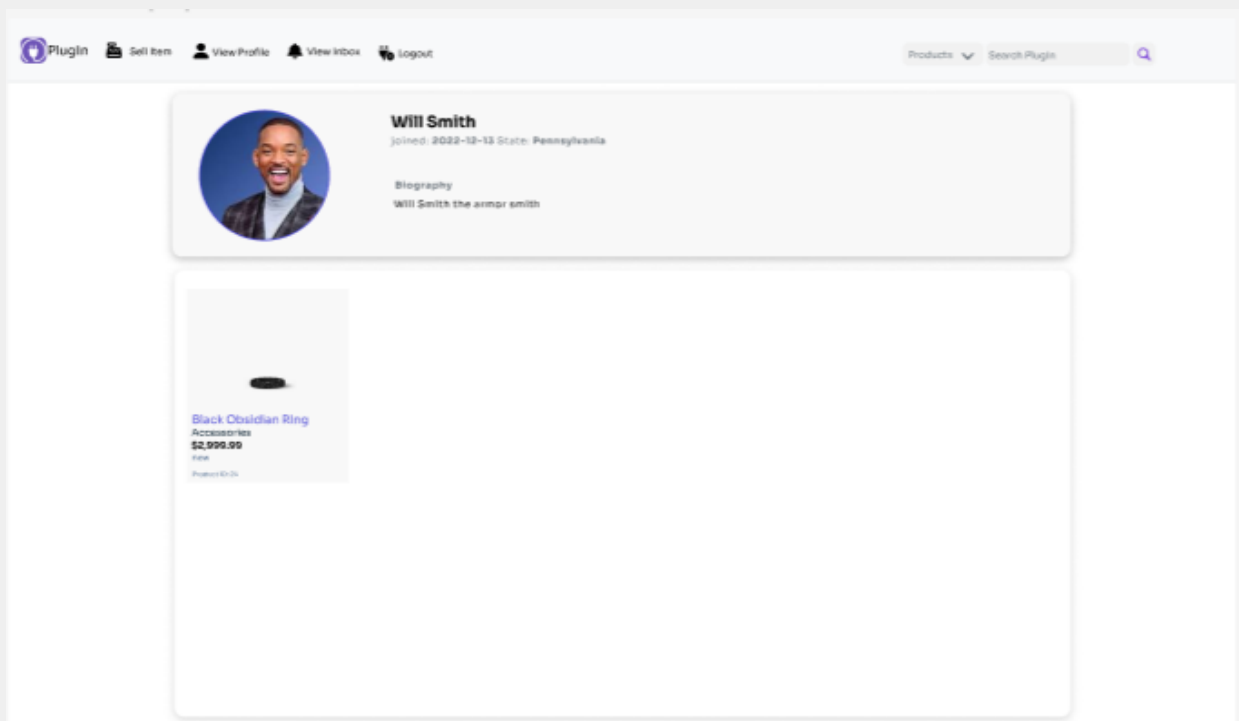


## displayResults.php (sellers)

1. Click on the link to go to their profile (viewUserProfile.php

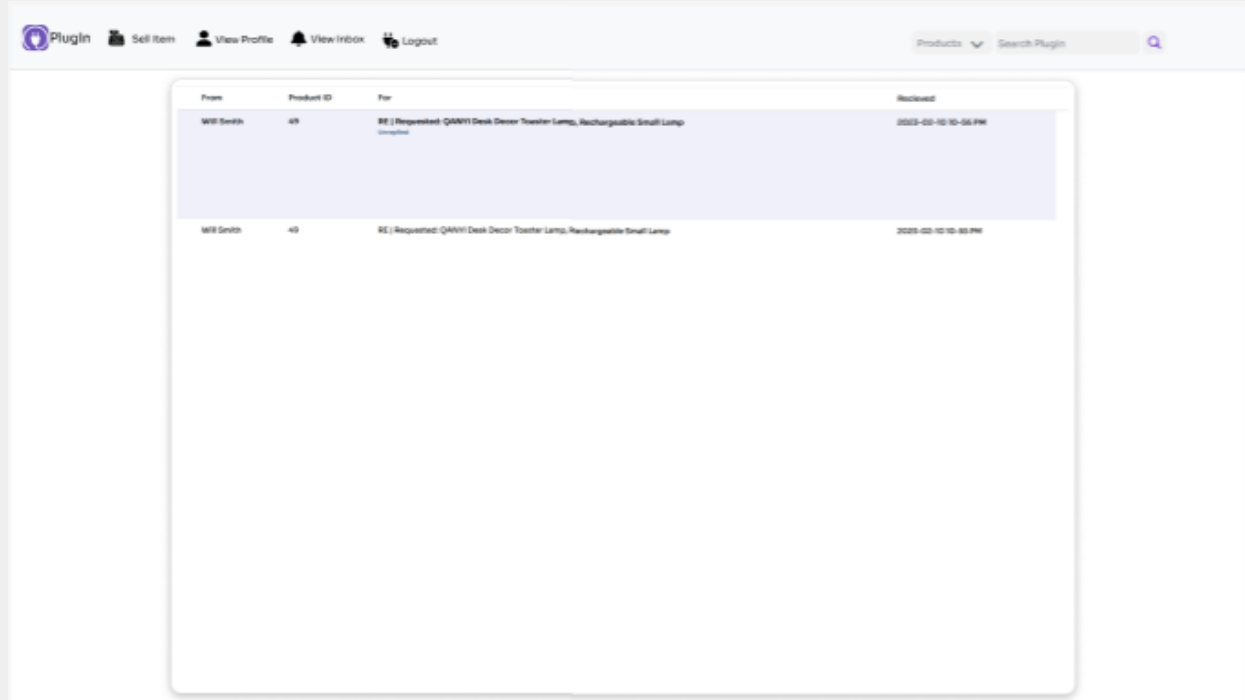


## viewUserProfile.php





## viewInbox.php


1. Clicking a message title redirects the user to viewMessage.php





viewMessage.php


 Plugin

 Sell Item


 View Profile

 View Inbox

 Logout

Products ▼  

Messaging



Will Smith

Joined: 2022-12-13 State: Pennsylvania

Biography

Will smith the armor smith

This lamp will look good in my room. I like lamps, and I like toast. Can I have it free?

10:34 AM - 2023-02-10

No.

10:55 AM - 2023-02-10

Okay, your product was ugly anyways.


2:58 PM - 2023-02-11

Send a message back...

Insert Photo

Reply

About



\$16.99

Now

QANYI Desk Decor Toaster Lamp, Rechargeable Small Lamp






Product ID: 46

Posted on: 2023-02-10

State: Delaware

Description

About this item

-  **Unique Toaster Design:** Kawaii table light Shaped like toaster features retro style and high-grade quality. A soothing glow, a sweet light, used well as night light, and table lamp and ambiance lamp, blending naturally with your furniture and decor.
-  **Cute Table Lamp Long-time Use:** Mini table nightlight has a built-in 800mAh battery portable moved anywhere, small enough to leave plenty of space while bringing you enough brightness, ideal for limited space, such as headboard shelf, low bookshelf and cabinet
-  **Care For Eyes:** Modern simple lamp diffuses table night light uniformly, pleasing to eyes, reduce eyestrain to most extent. Giving off flicker-free soft light, not harsh as huge ceiling light in office or school, greatly protect the eye health of your family and loved one.
-  **Application:** This room decor aesthetic is only used indoors, very suitable for bedroom bedside, living room, dining room, study, office, coffee shop, bar, museum, office, college dorm, kids room, farmhouse and lighting decoration
-  **Aesthetic Gifts for Girls Boys:** Aesthetic toaster lamp can be used in home decoration, office decoration. It is also the best decoration for gifts to relatives and friends. Best practical birthday present gift for friends, colleagues, adults, women, girls and ladies, Kids and families, love this cute decor night lights.

Confirm Sale

## Model Folder (PHP & SQL Logic)

### A. dbCenter.php + dbConfig.ini

1. Logic that will prepare the MySQL database for connection, and can be referenced in further pages.

### B. \* userController.php \*

1. This file will be incredibly important to maintaining the SQL logic through the site. It will contain various methods which will have SQL statements or commands for managing user data between the website and the database. This will be the Users class.

Please review some of the following methods below, that will be contained within the userController.php file & Users class.

## Method naming scheme(s):

### C. userSignUp()

1. SQL logic that sends form data from signUp.php to the MySQL database.

### D. userDelete()

1. SQL logic that will delete a user from the MySQL database according to their userID.

### E. isUniqueInnie()

1. SQL logic that will compare the form data from signUp.php to the information stored in the MySQL database.

### F. isUniqueUN()

1. SQL logic that will compare the form data from signUp.php to the information stored in the MySQL database.

### G. isUserTrue()

1. SQL logic that will compare the form data from login.php to the information stored in the MySQL database.

### H. getUserInfo()

1. SQL logic to select all of the user's information needed, by their userID. Will be used to fill in form data in future pages.

### I. getUserID()

1. SQL logic that will pull the userID from the MySQL database.

### J. editUserProfile()

1. SQL logic that will send information from the form in editProfile.php to the MySQL database, according to the userID.

### K. editUserPP()

1. SQL logic that will only send form information from the imported photo module.
- L. findUserByInnie()
1. SQL logic that will compare the user's search input from searchUsers.php with the information that is displayed in the database.
- M. findListByState()
1. SQL Logic that will crawl the database for all listings according to the state specified.
- N. findListByCat()
1. SQL Logic that will crawl the database for all listings according to the category specified.
- O. findListBySearch()
1. SQL Logic that will crawl the database for all listings like the user's imputed criteria.
- P. getListingInfo()
1. SQL logic that will select all listing information, to later be displayed on a user's profile.
- Q. getListID()
1. SQL logic that will gather the list ID.
- R. userMessages()
1. SQL logic that will gather all form information from the messenger pages, and send the information to the database.
- S. getMessageID()
1. SQL logic to gather all the message IDs.
- T. getMessageInfo()
1. SQL logic which will gather the message information that was sent to the database.
- U. isListingSold()
1. SQL logic that will delete the listing if the user completes a sale.

V. editListing()

1. SQL logic that will take form data and update the information to the database.

W.listingDelete()

1. SQL logic which will delete the listing if requested by the user on editListing.php

X. etc..

## **Include Folder**

A. LOGIC folder

-> PHP

-> php\_NameOfPage.php : contains all PHP logic for a page.

-> JS

-> js\_nameOfPage.js : contains all the JS logic for a page.

A. defaultAvie (FOLDER)

1. A simple folder to contain the defaultAvie.jpg photo.  
This will be the default profile picture of all users.

B. header.php

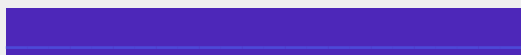
1. For referencing the header (HTML) into other files.

C. footer.php

1. For referencing the footer (HTML) into other files.

## **Colors:**

#4D27B9



This color will be the primary identity of the Plugin. It will be used to highlight certain links, on certain borders/elements of the

website design, and act as a general identity to allow users to associate the color with us.

#000000



The standard text color for the body and general elements that do not need to be emphasized. Such as, biographies, descriptions, and other interior text elements.

#FFFFFF



This will be the primary background color of the website. It is possible that the color will change throughout development, so we do not burn our user's eyes with brightness.

## Feedback Based Changes

Feedback given throughout the course:

- Reduce the amount of pages needed to develop.
- Original design was too outdated.
- Searchbar should be consistently available.
- Filtering products VS sellers should be available with the search bar.
- Message center should show breadcrumb conversation.
- Users should be able to see their purchase and sale history.
- Users should be able to rate a seller or the product.

All of this feedback was taken into account in the design and development process of our website.



