

686 HOMEWORK 5:

PHP and SQL

Like your previous assignment, you will be working with a database on brands, products, and consumer reviews. This database is supplied alongside the assignment as **product_reviews.sql**.

For this assignment, you will be creating a web interface for the user to work with the product reviews database. Your web interface should begin with a page called `index.php`, which is the first page that the user should visit. On this page, show a welcome message with a large heading, and use a form to ask the user their name.

Hello, and welcome!

What is your name?

When the user presses “Go!” on the `index.php` page, they should be redirected to a page called `directory.php`. On this page, the user should be greeted by name. In a paragraph element, explain to the user their two options. By clicking the first link, the user can analyze existing reviews in the product reviews database. Or, by clicking the second link the user can write their own review.

Welcome, David!

In this system, you can either analyze existing product reviews or create your own. What would you like to do?

[Analyze existing reviews](#)

[Write my own review](#)

If the user clicks on the first link, they should be redirected to a page called `search.php`. On this page, once again greet the user by name. Ask the user for three values to utilize in their search: site (Amazon, Target, or Walmart), stars (1, 2, 3, 4, or 5), and a search term. The former two fields should be dropdowns, while the search term should be a textbox. Note that while there are other fields in the reviews table (product ID and date of post), you do not need to include options for these on this page.

Search for product reviews here, David!

Site:
Stars:
Search term:

When the user presses “Go!” on the search.php page, they should be redirected to a page called search_result.php. On this page, show a table with four columns: site name, product name, star rating, and review text of all reviews matching the user’s criteria. On this page, use the CSS from https://dgoldberg.sdsu.edu/686/table_style.css to improve the table style.

Site	Product name	Star rating	Review text
Amazon	BLACK+DECKER TO13035B 4-Slice Toaster Oven, Stainless Steel/Black [Color: Stainless Steel/Black]	1	This thing was my least favorite purchase of the last year. This thing was my least favorite purchase of the last year. It's dangerous to use, the back gets crazy hot and heats up the cord if its too close. The thing offgassed a very freaky chemical smell for a whole week after getting it. Also, its confusing to figure out what all the knobs do. The timer continues even after the machine is unplugged, which I make a point to do because im pretty certain this is a major fire hazard. Dont recommend this product, but honestly it came so wrapped up with all the little pieces I was too lazy to return it... They got me!
Amazon	BLACK+DECKER TO13035B 4-Slice Toaster Oven, Stainless Steel/Black [Color: Stainless Steel/Black]	1	DO NOT BUY. This is a fire hazard. ... DO NOT BUY. This is a fire hazard. The oven started smoking with a strong odor of plastic burning soon after turning it on for the first time.
Amazon	BLACK+DECKER TO13035B 4-Slice Toaster Oven, Stainless Steel/Black [Color: Stainless Steel/Black]	1	FIRE HAZARD FIRE HAZARD! I bought one of these on Jan 9, 2015 and wasn't all that thrilled with it to start with. Making toast was difficult as the distance on the dial between "barley warmed" and "burnt to a crisp" is so short that it's a guess every time as to where to set it and you either ended up restarting it 2 or 3 times to get "toast" instead of bread or having it so burnt you had to throw it out and start over. I was considering bringing it back but got busy with other things and hadn't gotten around to it yet. THEN, the other night, my 17 year old son was making a piece of toast when the bread burst into flames inside the oven! Fortunately, he was nearby and noticed smoke coming from the oven fairly quickly so no damage was done - either to the house or the oven BUT had he gone off somewhere to do something else there COULD have been damage, and it COULD have been serious. Since I cannot trust that with 4 (or more) people using this toaster, that no one will EVER put in a piece of bread and walk away and leave it unattended for a few minutes, then I cannot trust having this appliance in my house. Fortunately, the toaster was new enough that I was able to return it to the store so I cannot speak to whether or not Black and Decker's customer service is any better than their toasters or not.

Alternatively, on the directory.php page, if the user chooses to write their own review, they should be redirected to a page called write.php. On this page, once again greet the user by name. Ask the user for three values to use for insertion into the database: product ID (number only, with values restricted to 1 through 14), stars (1, 2, 3, 4, or 5), and review text. The product ID should be solicited through a textbox that only allows numbers; the stars should be solicited through a dropdown; and the review text should be solicited through a regular textbox. Note that the reviews table includes a review ID, but this field is auto-incremented, so the user should not need to enter it. You may assume a site ID of 1 (Amazon). Finally, for the date of post, use the current date. In PHP, you can get this value as follows:

```
$date = date("Y-m-d");
```

Write a review here, David!

Product ID:
Stars:
Review:

Finally, when the user presses “Go!” on the write.php page, they should be redirected to a page called write_data.php. Show the user a short message indicating the success (hopefully) or failure of the insertion.

Congratulations! Your review was accepted.

As you write your code, please keep the following considerations in mind:

- Many of the pages involve transmitting data via forms. Ensure that your code passes this data “behind the scenes” such that the user cannot see or manipulate it.
- Do not allow the user to view any pages out of order. The desired flow of the web interface is shown in a diagram on the following page. If the user visits a page out of order, show them a message asking them to go back before proceeding (example below). You can use a combination of the information gathered from forms (or not) and PHP sessions to determine if the user has visited a page out of order.

Sorry, you need to enter your name on the homepage before proceeding.

- Please submit this assignment as a [zip file that contains the PHP files mentioned above.](#)

