Code Review

This code review focuses on the search functionality of the webstore. Though we have developed a custom style guide within the group, it is still very helpful to have peer review of all code written. The end goal of this is to improve performance and readability while minimizing errors. The code being used was written by Taylor Tanksley and reviewed by M. Kaan Tasbas. Kaan first included his comments in the search\_code\_review.php file, then met with Taylor to go over his concerns.

*<!-- [Kaan] You should include your name on files you maintain for easier tracking -->*

<?php

*// [Kaan] Can this php segment go into the part below? Does this affect efficiency?*

*// connect to CEN4010\_S2018g07 database. Creates $db pointer*

**require\_once**("../database\_connection.php");

?>

<html>

<head>

<meta *charset*="utf-8">

<meta *name*="viewport" *content*="width=device-width, initial-scale=1, shrink-to-fit=no">

<title>Results</title>

<link *href*="https://stackpath.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"*rel*="stylesheet" *integrity*="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" *crossorigin*="anonymous">

<link *rel*="stylesheet" *href*="search.css">

<link *href*="https://fonts.googleapis.com/css?family=Catamaran" *rel*="stylesheet">

*<!-- [Kaan] You should link to copies of these files on our server instead. It'll be faster and save bandwidth -->*

</head>

<body>

<nav *class*="navbar">

<a *href*="./search.html">Home</a>

<a *href*="../account/account.html">Account</a>

</nav>

<img *src*="Logo-FAU.jpg" *alt*="FAU College of Engineering logo" *class*="logoResults">

<div *class*="parentButtonResults">

<form *class* = "searchForm" *action* = "search.php" *method* = "GET">

<input *type*="text" *class*="" *placeholder*="Search.." *name*="query">

<button *type*="submit">Search</button>

</form>

<br><br>

</div>

<?php

$query = $\_GET['query'];

$min\_length = 3;

if(**strlen**($query) < $min\_length) {

**echo** "Minimum length for search is ".$min\_length;

}

else {

*// [Kaan] It would be really helpful if you added small comments on what the next couple functions are doing...*

*// ... I found it hard to follow along without looking up the documentation*

$query = **htmlspecialchars**($query);

$query = **mysqli\_real\_escape\_string**($db, $query);

$raw\_results = **mysqli\_query**($db, "SELECT \* FROM Inventory

WHERE (part\_desc LIKE '%".$query."%') OR (keyword1 LIKE '%".$query."%') OR (keyword2 LIKE '%".$query."%')")

or die(**mysqli\_error**($db));

if(**mysqli\_num\_rows**($raw\_results) > 0){ *// if one or more rows are returned do following*

**echo** "<p>Showing results for: ".**ucfirst**($query)."</p>";

**echo** "<div class='container'> <div class='row'>";

while($results = **mysqli\_fetch\_array**($raw\_results)){

*// $results = mysql\_fetch\_array($raw\_results) puts data from database into array, while it's valid it does the loop*

*// [Kaan] Wow this next line is really hard to read. Maybe we should work on simplifying it.*

**echo** "<div class='card-deck col-lg-4 col-md-6 mb-4'>

<div class='card mb-4 box-shadow'>

<div class='card-body'><h4 class='card-title'>".$results['sku']."</h4><p class='card-text'>". $results['part\_desc']."</p><h5>Quantity: ".$results['quantity']."</h5><div><div id='quantity' ><input id='inputQ'type='number' name='quantity' min='0' max=".$results['quantity']."step='1' value=''></div><div id = 'cart'><button type='button' class='btn btn-lg btn-block btn-outline-primary'>Add To Cart</button></div></div></div></div></div>";

*// posts results gotten from database(title and text) you can also show id ($results['id'])*

}

**echo** "</div></div>";

}

else {

**echo** "No matches found<br>";

}

}

$db->**close**();

?>

*<!-- [Kaan] Why are these scripts down here instead of in the head? Or even at the top of the body? -->*

<script *src*="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script> src="https://stackpath.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"</script>

</body>

</html>

*<!-- [Kaan] Comments next to the closing tags are also helpful to keep track of where you are within the document*. *Though the file isn't too big, it feels cluttered. Performance aside, readability definitely suffers -->*