

# CS 3360: PHP Assignment

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## Features

The system allows the user to input three properties of an item (name, PLU, and image) and then view an alphabetically sorted list of all items that have been entered into the system. The system also allows users to search for a specific item's PLU to see if it is already in the database and if it is found then the system shall display the item's name, PLU, as well as the image of the item. The system shall have a login screen where different types of users (normal users, administrators, creator) can log into the system

## Explanation

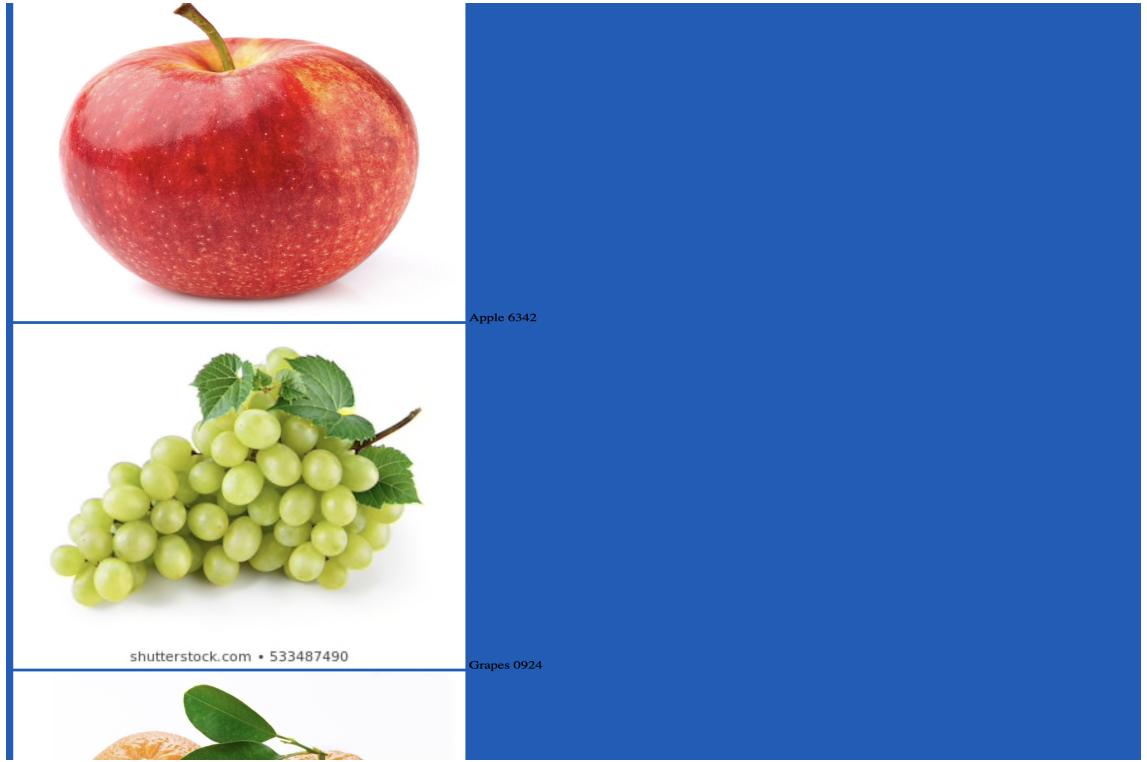
**Login** There is a pre-defined username and password that is available to standard employees, as well as one admin account that can be used by managers of the store. Lastly, there is one account for the system creator (in this case, me).

**Images** The user should enter the URL of an image that they want to associate with the item name and PLU. Users are free to upload images to some free file-hosting website such as *imgur* and then provide the system with the URL of the image.

## Screenshots

Name of Grocery Item	PLU Identifier	Picture of Item
Grape <input type="file"/>	0914	on=280m-533437490.jpg

Adding a new grocery item to the system



The new item has been added to the system and displayed in the inventory.

<b>Grocery Store Login Portal</b>	
<i>Employee Username</i>	<input type="text"/>
<i>Employee Password</i>	<input type="password"/>
	<input type="button" value="Confirm login"/>

Main login page, takes in a username and a password.

Please check your login credentials again

## Grocery Store Login Portal

<i>Employee Username</i>	<input type="text"/>
<i>Employee Password</i>	<input type="password"/>
	<input type="button" value="Confirm login"/>

Message displayed if the credentials are not valid.

PHP Assignment

Author: Kevin Apodaca

Class: CS 3360

Search Feature

Search by item PLU by entering the number below.
<input type="text" value="0924"/>
<input type="button" value="Search For PLU"/>

Inputting PLU to search database for.

**Add New Items**

Please fill out the appropriate information for each item, remember to spell the name correctly

Name of Grocery Item	PLU Identifier	Picture of Item
<input type="text"/>	<input type="text"/>	<input type="text"/>

**Grocery Items**

Below will be displayed the full inventory of all the items that have been added so far.



shutterstock.com • 533487490

Grapes 0924

The PLU was found and is showed to the user, displaying the name of the item, the PLU, and the image.

## Grocery Items

*Below will be displayed the full inventory of all the items that have been added so far.*

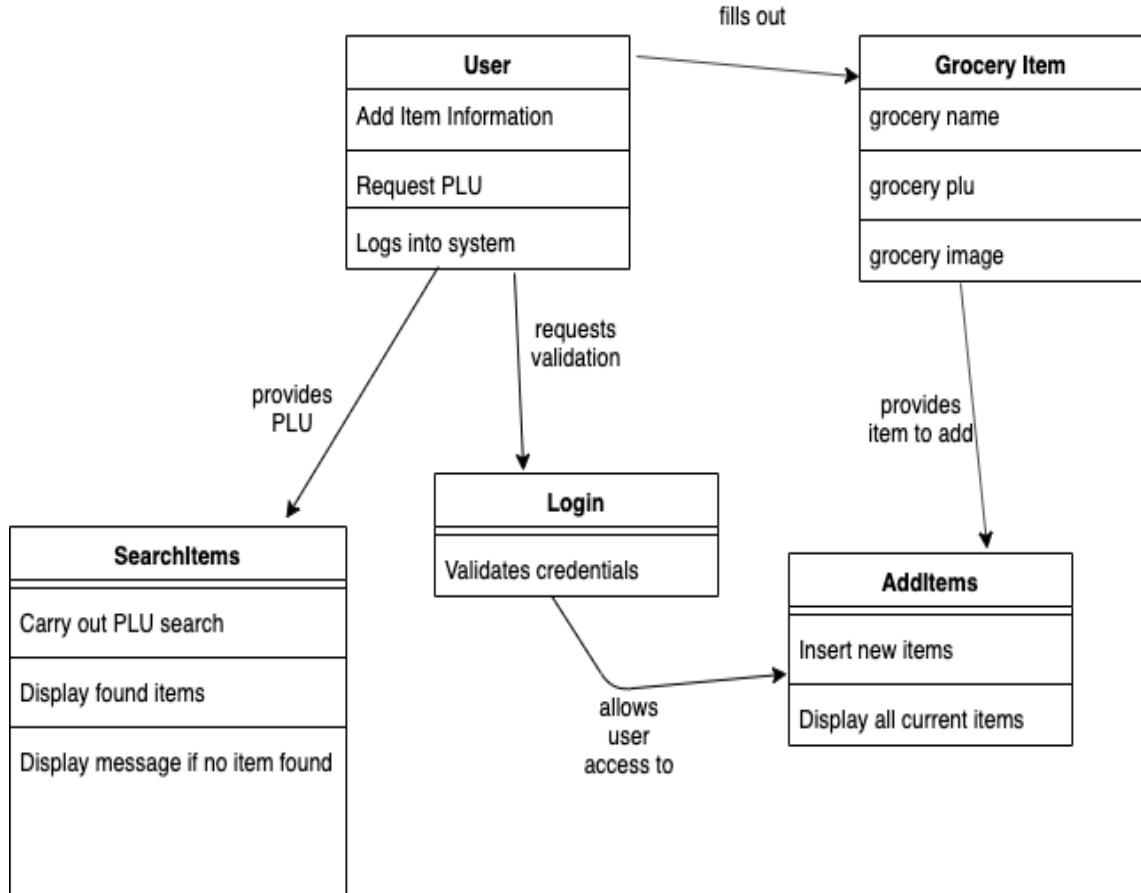
Search for an item

PLU not in the system.

The PLU that the user searched for was not found

## Code Structure:

The code is structured using a UML diagram, wherein the classes/entities have attributes and how they affect each other.



**Code**

## LOGIN.PHP

```
<?php

/*
 * @author Kevin Apodaca
 * @version 1.0
 * @since 9/24/19
 * Description: This PHP script will verify that some given PLU number is in the database.
 */

session_start(); // lets PHP know a new session was initialized.

/** Determine if a variable is declared and is different than NULL */
if(isset($_POST['Submit'])){
    $logins = array('Kevin' => 'ka_password','big_admin' => 'Admin','normal_user' => 'User'); //available logins.
    $Username = isset($_POST['Username']) ? $_POST['Username'] : "";
    $Password = isset($_POST["Password"]) ? $_POST["Password"] : "";

    /** Determine if there are two inputs for username and password. */
    if(isset($logins[$Username]) && $logins[$Username] == $Password){
        $_SESSION['UserData']['Username']=$logins[$Username];
        header("location: NewItems.php");
        exit;
    }
    /** Displays if the details were not valid inputs for the database. */
    else {
        $disp_message=<span style='color:pink'>Please check your login credentials again</span>;
    }
}
?>

<!DOCTYPE HTML PUBLIC "-//I/W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<!DOCTYPE html>
<html class="no-js" lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```

<meta name="description" content="PHP Assignment for CS3360 with Nigel Ward, Fall 2019 semester at the University of Texas at El Paso">

<meta name="author" content="Kevin Apodaca">

<title>Login - Kevin Apodaca</title>

<link href="https://fonts.googleapis.com/css?family=Roboto:100,200,300,500,700,900' rel='stylesheet' type='text/css">
<link href="css/font-awesome.min.css' rel='stylesheet' type='text/css'>
<link href="css/bootstrap.min.css" rel="stylesheet" type="text/css">
<link href="css/material.min.css" rel="stylesheet" type="text/css">
<link href="css/owl.carousel.css" rel="stylesheet" type="text/css">
<link href="css/magnific-popup.css" rel="stylesheet" type="text/css">
<link href="css/animate.min.css" rel="stylesheet" type="text/css">
<link href="css/jquery.directional-hover.min.css" rel="stylesheet" type="text/css">
<link href="css/preloader.css" rel="stylesheet" type="text/css">
<link href="style.css?1" rel="stylesheet" type="text/css">
<link href="css/button-color-1.css" rel="stylesheet" type="text/css" id="buttonColorScheme">
<link href="css/main-color-1.css" rel="stylesheet" type="text/css" id="mainColorScheme">

</head>

<body bgcolor = "#005bbb" text="orange" bgcolor="#ffff00" link="#0000f0" vlink="#0000f0" alink="#0000f0" data-spy="scroll" data-target="#topNavbar2" data-offset="80">
<!-- Preloader Start -->
<div id="preloader">
<div class="circle"></div>
<div class="left-door"></div>
<div class="right-door"></div>
</div>
<!-- Preloader End -->
<div class="contact-window mdl-card mdl-shadow--24dp">
<div class="container">
<div class="row">
<div class="col-md-6 col-md-offset-3">
<div class="section-title text-center">
<h2 style="color:orange;">PLU Interface</h2>

```

```
<p style = "color:white;">Welcome to the interface for the PLU, please enter your credentials to use  
the system, if you have forgotten your credentials please go to the system administrator for a reset.
```

```
a store associate.
```

```
</p>  
</div>  
</div>  
</div>  
<div class="row">  
    <!-- database_info Start -->  
    <div class="col-md-3 contact-database_info">  
        <h2 style= "color:orange;">PHP Assignment</h2>  
        <database_info>  
            <p class="Author" style = "color:white;"><i class="fa fa-id-card"></i> Author: <span class="pull-right">Kevin Apodaca</span></p>  
            <p class="Class" style = "color:white;"><i class="fa fa-university"></i> Class: <span class="pull-right">CS 3360</span></p>  
        </database_info>  
    </div>  
    <img src = "search.png" alt = "Search Icon">
```

```
<!-- Initialize the login form -->
```

```
<form action="" method="post" name="Login_Form">  
    <table border = "5" width="400" border="0" align="center" cellpadding="20" cellspacing="6" class="Table">  
        <?php  
        /**  
         * @author Kevin Apodaca  
         * @version 1.0  
         * @since 9/24/19  
         * Description: This PHP script will verify that some given PLU number is in the database.  
        */  
        if(isset($disp_message)){  
            ?>  
            <tr>  
                <td colspan="2" align="center" valign="top"><?php echo $disp_message;?></td>  
            </tr>  
            <?php } ?>  
            <tr>
```

```

<td colspan="2" align="left" valign="top"><h1 align = "center"><u>Grocery Store Login Portal<u></h1></td>
</tr>
<tr>
<td align="right" valign="top"><i>Employee Username<i></td>
<td><input name="Username" type="text" class="Input"></td>
</tr>
<tr>
<td align="right"><i>Employee Password<i></td>
<td><input name="Password" type="password" class="Input"></td>
</tr>
<tr>
<td> </td>
<td><input name="Submit" type="submit" value="Confirm login" class="Button3"></td>
</tr>
</table>

</form></body>
</html>

```

## NEWITEMS.PHP

```

CTYPE html>
<html class="no-js" lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="PHP Assignment for CS3360 with Nigel Ward, Fall 2019 semester at the University of Texas at El Paso">
<meta name="author" content="Kevin Apodaca">

<title>PHP Assignment - Kevin Apodaca</title>

<link href="https://fonts.googleapis.com/css?family=Roboto:100,200,300,500,700,900' rel='stylesheet' type='text/css">

```

```

<link href='css/font-awesome.min.css' rel='stylesheet' type='text/css'>
<link href="css/bootstrap.min.css" rel="stylesheet" type='text/css'>
<link href="css/material.min.css" rel="stylesheet" type='text/css'>
<link href="css/owl.carousel.css" rel="stylesheet" type='text/css'>
<link href="css/magnific-popup.css" rel="stylesheet" type='text/css'>
<link href="css/animate.min.css" rel="stylesheet" type='text/css'>
<link href="css/jquery.directional-hover.min.css" rel="stylesheet" type='text/css'>
<link href="css/preloader.css" rel="stylesheet" type='text/css'>
<link href="style.css?1" rel="stylesheet" type='text/css'>
<link href="css/button-color-1.css" rel="stylesheet" type='text/css' id="buttonColorScheme">
<link href="css/main-color-1.css" rel="stylesheet" type='text/css' id="mainColorScheme">

</head>
<body bgcolor = "#005bbb" data-spy="scroll" data-target="#topNavbar2" data-offset="80">
    <!-- Preloader Start -->
    <div id="preloader">
        <div class="circle"></div>
        <div class="left-door"></div>
        <div class="right-door"></div>
    </div>
    <!-- Preloader End -->
    <div class="contact-window mdl-card mdl-shadow--24dp">
        <div class="container">
            <div class="row">
                <div class="col-md-6 col-md-offset-3">
                    <div class="section-title text-center">
                        <h2 style="color:orange;">PLU Interface</h2>
                        <p style="color:white;">Welcome to the interface for the PLU, please enter a name of the name for your item as well as its unique PLU. If you cannot find this database_information please ask a store associate.</p>
                    </div>
                </div>
            <div class="row">
                <!-- database_info Start -->
                <div class="col-md-3 contact-database_info">

```

```

<h2 style= "color:orange;">PHP Assignment</h2>
<database_info>
<p class="Author" style = "color:white;"><i class="fa fa-id-card"></i> Author: <span class="pull-right">Kevin Apodaca</span></p>
<p class="Class" style= "color:white;"><i class="fa fa-university"></i> Class: <span class="pull-right">CS 3360</span></p>
</database_info>
</div>
<img src = "search.png" alt = "Search Icon">
<h1 style="color:orange;" align = "center"><b>Add New Items</b></h1>
<p align = "center" style="color:white;"> Please fill out the appropriate information for each item, remember to spell the name correctly</p>
<!-- Table were users can input information. -->
<form action="NewItems.php" method="POST">
<div>
<!-- Stretch entire page -->
<table border = "3" style="width: 100%">
<tr bgcolor = "orange">
<th><i>Name of Grocery Item</i></th>
<th><i>PLU Identifier</i></th>
<th><i>Picture of Item</i></th>
</tr>
<tr>
<!-- Inputs for each of the three attributes -->
<td align="center"><input type="text" name="grocery_name"></td>
<td align="center"><input type="text" name="grocery_value"></td>
<td align="center"><input type="text" name="grocery_image"></td>
</tr>
</table>
</div>
<!-- Information To Display All Items -->
<input type="submit" name="submit" value="Add New Item">
<h1 style= "color:orange;" align = "center"><b>Grocery Items</b></h1>
<p align = "center" style="color:white;">Below will be displayed the full inventory of all the items that have been added so far.</p>
</form>

```

```

<!-- Call to -->
<form action="SearchItem.php">
<input type = "submit" value = "Search for an Item" />
</form>

<!--JAVASCRIPT FILES-->
<script src="js/jquery-2.2.2.min.js"></script>
<script src="js/bootstrap.min.js"></script>
<script src="js/material.min.js"></script>
<script src="js/animateScroll.min.js"></script>
<script src="js/jquery.validate.min.js"></script>
<script src="js/owl.carousel.min.js"></script>
<script src="js/jquery.waypoints.min.js"></script>
<script src="js/isotope-docs.min.js"></script>
<script src="js/jquery.counterup.min.js"></script>
<script src="js/jquery.magnific-popup.min.js"></script>
<script src="js/jquery.directional-hover.min.js"></script>
<script src="js/retina.min.js"></script>
<script src="js/main.js"></script>

</body>
</html>

<!-- PHP SCRIPT INITIALIZING -->
<?php
/*
 * @author Kevin Apodaca
 * @version 1.0
 * @since 9/24/19
 * Description: This PHP script will add new grocery items to the database, using the name of the item, the PLU identifier, and a picture
 */
 
/** Setting all variables needed. */
$item_name = $_POST['grocery_name'];
$item_plu = $_POST['grocery_value'];
$item_image = $_POST['grocery_image'];
$item_file = "/Users/Kevin 1/Desktop/PHP Assignment/items.txt";

```

```

$database_info = array();

/** 
 * This function will be used to insert new items into the database text file by appending the information and inserting it as a new line.
 */
function addItem($item_name, $item_plu, $item_image)
{
    /** Setting all variables needed. */
    global $item_file;
    global $database_info;

    /** Checking if the file is empty, then we open the file. */
    if(!empty($item_name)) {
        $file_pointer = fopen($item_file, "a") or die ("The items file was not found");
        fwrite($file_pointer, ($item_name . " " . $item_plu . " " . $item_image . "\n")); // appending item information into a single line.
        fclose($file_pointer);
        $file_pointer = fopen($item_file, "r") or die ("The items file was not found");
        $tracker = 0;
        /** While loop that will iterate through the file until it reaches the end of the file. */
        while (!feof($file_pointer)) {
            $database_info[$tracker] = fgets($file_pointer); // adding information to text file.
            $tracker++;
        }
        /** Built in PHP function to sort items from lowest to highest. */
        sort($database_info);
        /** File no longer needed. */
        fclose($file_pointer);
    }
}

/** 
 * This function will be used to display the inventory of items that have been stored since the session started.
 */
function displayItems()
{
    /** Setting all variables needed. */

```

```

global $item_file;
global $database_info;
$iterator = 0; // will be used to iterate through the database line by line

if(sizeof($info) != 0){//eliminates the one previous entry that always got printed out.
    $iterator = 1;
}

/** For loop will go through the entire database file and print out the lines. */
for(; $iterator < sizeof($database_info); $iterator++) {
    $placeholder = preg_split("/[\s]+/", $database_info[$iterator]); //using built in preg-
split to quickly organize the file for printing.

    echo '<img src="" . $placeholder[2] . "" alt="icon" width="500" height="500" />'; // printing out the grocery item pict
ure that the user submitted.

    echo "\t". $placeholder[0] . " " . $placeholder[1] . "<br/>"; // printing out the name of the grocery item and the PLU
identifier, then going to the next line.s

}
}

/** Calling the relevant PHP scripts */
addItem($item_name, $item_plu, $item_image);
displayItems();
?>

```

## SEARCH ITEM.PHP

```

<!DOCTYPE html>
<html class="no-js" lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="PHP Assignment for CS3360 with Nigel Ward, Fall 2019 semester at the Univ
ersity of Texas at El Paso">
<meta name="author" content="Kevin Apodaca">

<title>Search PLU - Kevin Apodaca</title>

```

```

<link href='https://fonts.googleapis.com/css?family=Roboto:100,200,300,500,700,900' rel='stylesheet' type='text/css'>
<link href='css/font-awesome.min.css' rel='stylesheet' type='text/css'>
<link href="css/bootstrap.min.css" rel="stylesheet" type="text/css">
<link href="css/material.min.css" rel="stylesheet" type="text/css">
<link href="css/owl.carousel.css" rel="stylesheet" type="text/css">
<link href="css/magnific-popup.css" rel="stylesheet" type="text/css">
<link href="css/animate.min.css" rel="stylesheet" type="text/css">
<link href="css/jquery.directional-hover.min.css" rel="stylesheet" type="text/css">
<link href="css/preloader.css" rel="stylesheet" type="text/css">
<link href="style.css?1" rel="stylesheet" type="text/css">
<link href="css/button-color-1.css" rel="stylesheet" type="text/css" id="buttonColorScheme">
<link href="css/main-color-1.css" rel="stylesheet" type="text/css" id="mainColorScheme">
</head>

<body bgcolor = "#005bbb" data-spy="scroll" data-target="#topNavbar2" data-offset="80">
    <!-- Preloader Start -->
    <div id="preloader">
        <div class="circle"></div>
        <div class="left-door"></div>
        <div class="right-door"></div>
    </div>
    <!-- Preloader End -->
    <div class="contact-window mdl-card mdl-shadow--24dp">
        <div class="container">
            <div class="row">
                <div class="col-md-6 col-md-offset-3">
                    <div class="section-title text-center">
                        <h2 style="color:orange;">PLU Interface</h2>
                        <p style="color:white;">Welcome to the interface for the PLU, please enter the PLU identifier of the grocery item you are searching for, if you need help please ask a store associate near you.
                    </p>
                    </div>
                </div>
            <div class="row">

```

```

<!-- database_info Start -->
<div class="col-md-3 contact-database_info">
    <h2 style="color:orange;">PHP Assignment</h2>
    <database_info>
        <p class="Author" style="color:white;"><i class="fa fa-id-card"></i> Author: <span class="pull-right">Kevin Apodaca</span></p>
        <p class="Class" style="color:white;"><i class="fa fa-university"></i> Class: <span class="pull-right">CS 3360</span></p>
    </database_info>
</div>

<h1 style="color:orange;" align="center"><b>Search Feature</b></h1>
<form action="Search.php" method="POST">
    <div>
        <table border="3" style="width: 100%">
            <tr><th style="color:white;" font-size="30"><i>Search by the item PLU by entering the number below.<i></th></tr><tr>
                <td align="center"><input type="text" name="search"></td>
            </tr>
        </table>
    </div>
    <input type="submit" align="center" name="Search by" value="Search For PLU">
    <br><br>
</form>
<form action="NewItems.php">
    <input type="submit" value="Click Here To Add New Item" />
</form>

<!--JAVASCRIPT FILES-->
<script src="js/jquery-2.2.2.min.js"></script>
<script src="js/bootstrap.min.js"></script>
<script src="js/material.min.js"></script>
<script src="js/animateScroll.min.js"></script>
<script src="js/jquery.validate.min.js"></script>
<script src="js/owl.carousel.min.js"></script>
<script src="js/jquery.waypoints.min.js"></script>
<script src="js/isotope-docs.min.js"></script>

```

```

<script src="js/jquery.counterup.min.js"></script>
<script src="js/jquery.magnific-popup.min.js"></script>
<script src="js/jquery.directional-hover.min.js"></script>
<script src="js/retina.min.js"></script>
<script src="js/main.js"></script>

</body>
</html>

<!-- PHP SCRIPT INITIALIZING --&gt;
&lt;?php
include 'NewItems.php';
/***
 * @author Kevin Apodaca
 * @version 1.0
 * @since 9/24/19
 * Description: This PHP script will verify that some given PLU number is in the database.
 */

/** Setting all variables needed. */
$search = $_POST['search'];
$database_info = array(); // empty array.
$item_file = "/Users/Kevin 1/Desktop/PHP Assignment/items.txt";

/***
 * This function will be used to search for the specific PLU that the user input.
 */
function searchByPLU()
{
    //variables needed
    global $database_info;
    global $search;
    global $item_file;
    $was_found = FALSE; // hasn't been found yet.

    if(! empty($search)) {
        $fp = fopen($item_file, "r") or die ("The items file was not found");
        $index = 0;
        /** While loop will iterate throughout the entire file, populating the array with the elements of the database file. */
</pre>

```

```

while (!feof($fp)) {
    $database_info[$index] = fgets($fp);
    $index++;
}

/** For loop will go through the database file and split the file by new line.*/
for($i = 0; $i < sizeof($database_info); $i++) {
    $keep_track = preg_split("/[\s,]+/", $database_info[$i]);

    if(strcmp($keep_track[1], $search) == 0) { // checking if a comparing returns 0, if true then the strings are the same and the PLU is found. Index 1 contains the PLU
        echo '<img src="" . $keep_track[2] . "" alt="image" width="500" height="500" />; // return image that user uploaded
        echo $keep_track[0] . " " . $keep_track[1] . "<br/>"; // return the name and the PLU.
        $was_found = TRUE; // variable needs to be updated if the condition is met.
        break;
    }
}

/** The PLU was never changed, thus never found. */
if($was_found == FALSE) {echo "PLU not in the system."; }

}

/** Calling the relevant PHP scripts */
searchByPLU();
?>

```

## **Unusual Properties**

In an example of not really understanding how PHP handles variables, when I was using an array to read info into it and then traverse it to display all information for the grocery items I found myself getting a constant issue when trying to echo out the results of the array. Using the code:

```
echo "File entered" . $array
```

I kept getting an output that just had "FILE ENTERED ARRAY", so it was just printing out a word called Array. I had to read a lot of documentation to figure out how to effectively print out elements of the array.

## **Resources**

<https://www.w3schools.com/html/default.asp>  
<https://www.php.net/manual/en/function.isset.php>  
<https://www.w3.org/TR/html4/loose.dtd>  
<https://www.php.net/manual/en/function.sort.php>  
<https://www.w3schools.com/php/>