Server-Side Web Scripting (PHP)

Web Technologies
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I.   Inventory of web resources

Used Resources	Purpose and/or Contents
image directory	This directory contains the collection of images (.jpg and .png format) that compose the header, footer, and the slideshow feature of the web application.
includes directory	This directory contains the collection of .php and .sql files that are accessed and utilized by the .php files found in the root directory, exclusively via the use of *include* and *require* statements. Files included in this directory are enumerated below.
db.php	This .php file opens a new connection to the MySQL server. It is accessed and utilized by the admin.php, adminAccount.php, index.php, insert.php, and update.php files of the root directory, and the imageView.php file in the includes directory, via the require statement.
fooditem.sql	This is a .sql file that contains two PHP MySQLi statements, namely: a create table statement for a table named foodItem, and an insert into statement which is used to populate the table with data records. This file is utilized by the public website to view the foodItem database, and the admin module to update and delete the foodItem entries.
footer.php	This .php file is accessed and utilized by the homepage in order to display the footer of the web application, via the use of the include statement.
functions.inc.php	This .php file contains user-defined functions that are accessed and utilized by the login.inc.php and signup.inc.php files in administering the creation of an admin account in the sign up interface, and the verification and validation of an admin account in the admin log-in interface.
header.php	This .php file contains HTML elements that are utilized in order to display the header of the web application. This file is accessed via the include statement.
imageView.php	This .php file is utilized by the public website

	and the admin module to retrieve and display the image of a foodItem found in the vectorx database.
login.inc.php	This .php file accepts the data that was sent from the login form in the login.php file, and passes it as arguments to the loginUser function in the functions.inc.php file.
logout.inc.php	This .php file destroys the session that was created in the log-in process, and redirects the user to the home page of the web application.
require_session.php	This .php file starts a new session and redirects the user to the index page. This file is accessed and utilized by the admin.php and adminAccount.php files via the include statement.
signup.inc.php	This .php file accepts the data that was sent from the signup form in the signup.php file, and passes it as arguments to the createUser function in the functions.inc.php file
users.sql	This .sql file contains MySQLi statements that creates a table named users, and inserts new records into the table. This file is utilized by the admin module to view accounts that are stored in the server database.
javascript directory	This directory contains a collection of JavaScript files that are utilized by the files found in the root directory of the web application.Files included in this directory are enumerated below.
slider.js	This .js file enables the animation for the slideshow feature found in the index or homepage. When the user clicks on an arrow, it navigates to the previous or next image stored in the image directory.
sortAdmin.js	This .js file enables the animation for the select button found in the index page of the web application. When the user clicks on the button, it displays a drop-down menu that allows the user to choose from four different options when sorting the foodItems.
style directory	This directory contains the collection of .css

	files that are utilized by the .php files to apply a specific format in displaying the web application.
root directory	This directory contains the collection of .php files that compose the pages and user interface of the web application.Files included in this directory are enumerated below.
admin.php	This .php file serves as the landing page once an admin successfully logs in to the admin module. It allows the admin to insert a new dish, sort the foodItem table by calories or title, and update or delete existing records in the table.
adminAccount.php	This .php file displays a table that includes user information found in the users table under the vectorx database. Users can search for an existing user with the search function.
index.php	This .php file serves as the homepage and public website of the web application. It displays an image slideshow, and a collection of food items that are fetched from the server database. In interacting with the application, users are able to search for a food item, and sort food items by calories and title.
insert.php	This .php file contains the insert form that accepts and sends data to the server in order to insert a new dish in the foodItem database.
login.php	This .php file contains the login form that accepts and sends data to the server in order to administer the log-in process and start a new session.
README.md	This file contains the instructions for setting up the application in a web development platform such as WampServer or XAMPP.
signup.php	This .php file contains the signup form that accepts and sends data to the server in order to sign-up for a new admin account.
update.php	This .php file contains the update form that accepts and sends data to the server in order to manipulate an existing record in the foodItem table.

II.   Relational Database schema

III.   Essential features

Feature	Description
General features	Features included in this section are features common among the public website and admin module.
Search food items	This feature allows the public user to search for a specific food item. When a user types in a keyword and clicks on the search button, it will return a result that matches with the keyword.
Sort food items	This feature allows the public user to sort the food item collection. When a user clicks on the select button, it will display a drop-down menu in which the user can sort the food item collection according to two categories: by calories, or by title, in either ascending or descending order.
Public Website	Features included in this section are features exclusive to the public user.

View food items	This feature allows the public user to view the collection of food items which are stored in the server database. It displays the image, item name, calories, and ingredients of a food item. In addition, users are able to view food item recipes by clicking on the recipe button that will redirect the user to an external website containing the recipe.
Admin Sign-up	This feature contains a form in which the public user is required to complete several fields in order to sign-up for an admin account. After the user completes the form, clicking on the sign-up button will create an account. If a field has not been completed, it will display a message for the user to try again.
Admin Log-in	This feature allows the public user to log-in into the server. It requires the user to input his/her log-in credentials before selecting the log-in button. After the user completes the form and clicks on the log-in button, it will redirect the user to the admin page. If an account is not recognized in the user account database, the server will display an error message.
Admin Module	Features included in this section are features exclusive to the admin user.
Insert New Dish	This feature allows the admin user to insert a new dish to the food item collection. The user will be redirected to the insert page to fill in the fields required to insert a new dish. Once the user completes the form and clicks on the Add a New Item button, it will redirect the user to the admin page.
Food Item Update	This feature allows the admin user to update an existing food item. After the user selects update, it will redirect the user to the update page in which will provide the user the forms to update the food item. Once the user completes the form and clicks on the Update Item button, it will redirect the user to the admin page.
Food Item Delete	This feature allows the user to delete the existing food item from the server database. If the user selects the delete button for the first

	time, it will remove the image of the food item. Once the user selects the delete button for the second time, it will remove the food item from the food item table.
View Admin Accounts	This feature allows the user to view existing user accounts which are stored in the server database. Passwords for the users are also displayed, but these will be encrypted or hashed to provide security.
Search Admin Account	This feature allows the user to search for an existing user account in the user table. It requires the user to input a keyword and clicking on the search button will return the result of the search.