Sean Farrell

7/19/2025

CPSC 3750 Wooster

**Programming Exam 2: Word Vowel Counter**

**Description:**

A PHP application that reads words from a text file, counts vowels, and provides an interactive frontend for viewing and organizing words the user filters by vowel count in the word.

**What’s working:**

* **Backend (PHP)**: Reads words from words.txt, counts vowels (A, E, I, O, U), and organizes words by vowel count
* **Frontend**: Interactive interface with buttons for each vowel count. They are themed in a dark theme for better readability, for my personal preference.
* **Scrollable Lists**: Words are displayed in scrollable lists, sorted by length (shortest to longest)
* **Drag & Drop**: Users can drag words from the list and drop them into a designated area
* **Counter**: Displays the number of words dropped in the drop zone
* **View Vowel Counts**: The application automatically scans your Word file, which is a .txt file and creates buttons for each unique vowel count found. With the current file, it's up to 6 vowels.
* **Select Words**: Click any button to see all words with that many vowels
* **Drag & Drop**: Drag any word from the list and drop it in the drop zone
* **Track Progress**: The counter shows how many words you've dropped.

**What's not working**:

* For this assignment, I really didn’t experience any problems with things that didn’t work relating to the rubric and or functionality of the website.
* The hardest thing about getting to work, or what was troublesome, was to test locally on my laptop (usually do these assignments on my desktop, not at home due to moving between apartments), by installing and setting up my PHP server. Once I did, I really didn’t have any issues or roadblocks with the exam.