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<?php
session_start();

$buttonStr = '';

function compareWordLength($a, $b) {
    return strlen($a) - strlen($b);
}

function compareKeyNum($a, $b) {
    $numA = (int)str_replace('count_', '', $a);
    $numB = (int)str_replace('count_', '', $b);

    return $numA - $numB;
}

function getVowelNum($word) {
    $vowels = str_split("aeiouAEIOU");
    $count = 0;

    foreach (str_split($word) as $char) {
        if (in_array($char, $vowels)) {
            $count++;
        }
    }

    if ($count != 0) {
        // Convert count to string for a unique key
        $key = "count_" . $count;

        // Initialize the array if it doesn't exist
        if (!isset($_SESSION[$key])) {
            $_SESSION[$key] = array();
        }

        $_SESSION[$key][] = $word;
    }

    return $count;
}

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Check if a file is selected
    if ($_FILES["file-input"]["error"] == 0) {
        $fileContent = file_get_contents($_FILES["file-input"]["tmp_name"]);

        // Split the content into an array of words using a regular expression
        $words = preg_split('/\s+/', $fileContent, -1, PREG_SPLIT_NO_EMPTY);

        // Iterate through each word and display
        foreach ($words as $word) {
            getVowelNum($word);
        }

        uksort($_SESSION, 'compareKeyNum');

        foreach ($_SESSION as &$words) {
            usort($words, 'compareWordLength');
        }
    }
}

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        // Display buttons for each unique vowel count
        $buttonStr .= "<h3>Press button to show words with correspond number of vowels</h3>";
        foreach ($_SESSION as $key => $words) {
            if (strpos($key, "count_") === 0) {
                $vowelCount = str_replace("count_", "", $key);
                $buttonStr .= "<button onclick=\"displayWords($vowelCount)\">$vowelCount
            </button> ";
        }
    }
    } else {
        echo "<p>Error uploading file. Please try again.</p>";
    }
}
?>
<!DOCTYPE html>
<meta charset="UTF-8">
<html lang="en">
    <head>
        <link rel="stylesheet" href="/style/style.css">
        <link rel="stylesheet" href="/style/archive.css">
        <link rel="stylesheet" href="/style/header.css">
        <link rel="stylesheet" href="exam.css">
        <title>Programming Exam #2 | khuen</title>
        <script src="/node_modules/jquery/dist/jquery.js"></script>
        <script>
            $(document).ready(function() {
                $("header").load("/header.html");
            });

            // JavaScript function to display words for a specific vowel count
            function displayWords(vowelCount) {
                let words = <?php echo json_encode($_SESSION); ?>['count_' + vowelCount];

                let wordListDiv = document.getElementById('word-list');

                wordListDiv.style.display = "flex";
                wordListDiv.innerHTML = '<h3>Words with ' + vowelCount + ' vowels:</h3>';

                if (words.length > 0) {
                    let ul = document.createElement('ul');
                    words.forEach(function(word) {
                        let li = document.createElement('li');

                        li.draggable = true;
                        li.textContent = word;
                        li.ondragstart = function(event) {
                            event.dataTransfer.setData('text/plain', word);
                        };

                        ul.appendChild(li);
                    });
                    wordListDiv.appendChild(ul);
                } else {
                    wordListDiv.innerHTML += '<p>No words found.</p>';
                }
            }

            function allowDrop(event) {

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        event.preventDefault();
    }

    function handleDrop(event) {
        event.preventDefault();
        let data = event.dataTransfer.getData('text/plain');
        let areaNumber = event.target.getAttribute('data-area');
        console.log(areaNumber);

        // Update the drop area with the dropped word
        let dropArea = document.querySelector('.drop-area[data-area="' + areaNum
ber + '" ]');
        let countSpan = document.querySelector('span#area-' + areaNumber + '-cou
nt');

        let ul = dropArea.querySelector('ul');
        let li = document.createElement('li');
        li.textContent = data;
        ul.appendChild(li);

        // Update the count of words in the drop area
        countSpan.textContent = ul.getElementsByTagName('li').length;
    }
</script>
</head>
<header>
</header>
<body>
    <center>
        <h1>Programming Exam #2</h1>
        <form id="file-form" action="<?=$_SERVER['PHP_SELF'] ?>" method="POST" en
ctype="multipart/form-data">
            <h3>File Input Form</h3>
            <label for="file-input">Input a file:</label>
            <input type="file" id="file-input" name="file-input">
            <input type="submit" name="upload-file">
        </form>
        <div style="margin-bottom: 10px">
            <?php echo $buttonStr; ?>
        </div>
        <div id="word-list">
        </div>
        <h2>Drop Areas</h2>
        <div id="drop-areas">
            <div>
                <div class="drop-area" ondrop="handleDrop(event)" ondragover="allowD
rop(event)" data-area="1">
                    <ul></ul>
                </div>
                <span class="word-count">Number of Words: <span id="area-1-count">0<
/span></span>
            </div>
            <div>
                <div class="drop-area" ondrop="handleDrop(event)" ondragover="allowD
rop(event)" data-area="2">
                    <ul></ul>
                </div>
                <span class="word-count">Number of Words: <span id="area-2-count">0<
/span></span>
            </div>
        </div>
    </center>
</body>
</html>

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    <div>
      <div class="drop-area" ondrop="handleDrop(event)" ondragover="allowD
rop(event)" data-area="3">
        <ul></ul>
      </div>
      <span class="word-count">Number of Words: <span id="area-3-count">0<
/span></span>
    </div>
    <div>
      <div class="drop-area" ondrop="handleDrop(event)" ondragover="allowD
rop(event)" data-area="4">
        <ul></ul>
      </div>
      <span class="word-count">Number of Words: <span id="area-4-count">0<
/span></span>
    </div>
  </div>
</center>
</body>
</html>
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