GANPAT UNIVERSITY U.V. PATEL COLLEGE OF ENGINEERING

B.Tech 6th Semester CE/IT 2CEIT6PE1: Web Technology

Practical-5

Aim: Create an application which Perform different string manipulation operations using PHP.

Exercise-1:

Design a PHP application with a user-friendly interface to perform

various string manipulation operations. The application should allow

users to input a string and select one of the following operations:

- 1. Calculate Length of String
- 2. Convert to Lowercase or Uppercase
- 3. Calculate White Spaces
- 4. Calculate Words, Lines, and Characters
- 5. Find Position of Specific Word
- 6. Replace Word
- 7. Calculate Occurrence of Vowels

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>String Manipulation Tool</title>
<style>
body {
font-family: Arial, sans-serif;
background-color: #f4f4f4;
margin: 0;
padding: 20px;
.container {
max-width: 700px;
margin: auto;
background: #fff;
```

```
padding: 20px;
border-radius: 8px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
h2 {
color: #333;
form {
margin-top: 20px;
display: flex;
flex-wrap: wrap;
}
textarea,
select,
input {
width: calc(100\% - 20px);
padding: 10px;
margin-bottom: 20px;
border-radius: 4px;
border: 1px solid #ddd;
button {
width: 100%;
padding: 10px;
border-radius: 4px;
border: none;
background-color: #5cb85c;
color: white;
cursor: pointer;
button:hover {
background-color: #4cae4c;
.input-container {
width: calc(50\% - 10px);
margin-right: 10px;
</style>
</head>
<body>
<div class="container">
<h2>String Manipulation Tool</h2>
<form method="post">
<textarea name="user string" placeholder="Enter your string here..."></textarea>
<div class="input-container">
<select name="operation">
<option value="length">Calculate Length of String
<option value="case convertl">Convert to Lowercase/option>
<option value="case convertu">Convert to Uppercase/option>
<option value="white spaces">Calculate White Spaces/option>
```

```
<option value="word count">Calculate Words, Lines, and Characters/option>
<option value="find word">Find Position of Specific Word
<option value="replace word">Replace Word</option>
<option value="vowel count">Calculate Occurrence of Vowels
</select>
</div>
<div class="input-container">
<input type="text" name="word to find" placeholder="Word to Find"> <!-- New input field
for Find Word -->
<input type="text" name="word to replace" placeholder="Word to Replace"> <!-- New</pre>
input field for Replace Word -->
<input type="text" name="replacement word" placeholder="Replacement Word"><!-- New</pre>
input field for Replacement Word -->
</div>
<button type="submit">Perform Operation</button>
</form>
<?php
  if ($ SERVER["REQUEST METHOD"] == "POST") {
    $user string = $ POST['user string'];
    $operation = $ POST['operation'];
    switch ($operation) {
    case 'length':
      $length = strlen($user string);
      echo "The length of the string is: $length";
      break;
    case 'case convertl':
      $lower = strtolower($user string);
      echo "Lowercase: $lower";
      break;
    case 'case covertu':
      $upper = strtoupper($user string);
      echo "Uppercase: $upper";
      break;
    case 'white spaces':
      $white spaces = substr count($user string, '');
      echo "Number of white spaces: $white spaces";
      break;
    case 'word count':
      $wordCount = str word count($user string);
      le = substr count(suser string, "\n") + 1;
      $charCount = strlen($user string);
      echo "<strong>Words:</strong> $wordCount";
      echo "<strong>Lines:</strong> $lineCount";
      echo "<strong>Characters:</strong> $charCount";
```

```
break;
    case 'find word':
       $word to find = $ POST['word to find'];
       $position = strpos($user string, $word to find);
       if ($position !== false) {
       echo "The position of the word '$word to find' is: $position";
       echo "The word '$word to find' was not found.";
       break;
    case 'replace word':
       $word to replace = $ POST['word to replace'];
       $replacement word = $ POST['replacement word'];
       $new string = str replace($word to replace, $replacement word,
       $user string); echo "New string: $new string";
       break;
    case 'vowel count':
       $vowels = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U'];
       vowel count = 0;
       foreach ($vowels as $vowel) {
       $vowel count += substr count(($user string), $vowel);
       echo "Total number of vowels: $vowel count";
       break;
    default:
       echo "Invalid operation.";
       break;
</div>
</body>
</html>
```

Output:

}} ?>









