**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>

<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>

<option value="replace\_word">Replace Word</option>

<option value="vowel\_count">Calculate Occurrence of Vowels</option>

</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 input field for Replace Word -->

<input type="text" name="replacement\_word" placeholder="Replacement Word"><!-- New 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);

$lineCount = substr\_count($user\_string, "\n") + 1;

$charCount = strlen($user\_string);

echo "<p><strong>Words:</strong> $wordCount</p>";

echo "<p><strong>Lines:</strong> $lineCount</p>";

echo "<p><strong>Characters:</strong> $charCount</p>";

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";

} else {

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;

}}

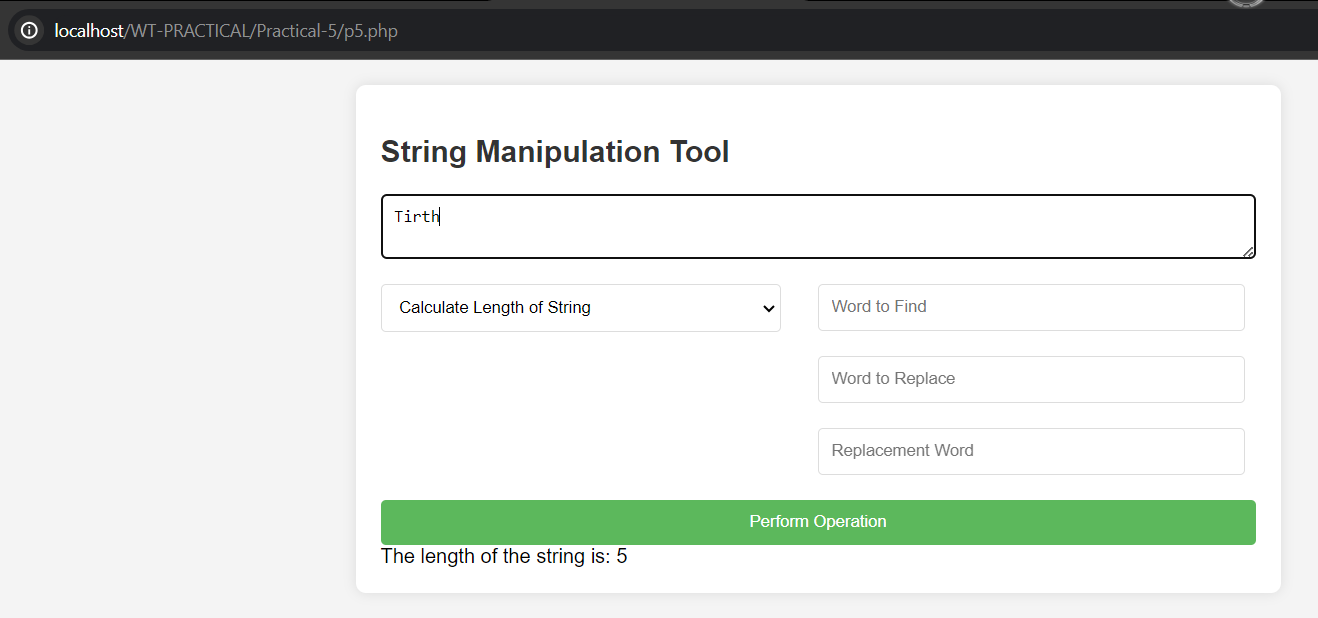
?>

</div>

</body>

</html>

**Output:**

****

