

VIT-AP UNIVERSITY

WEB TECHNOLOGIES LAB-6

NAME:

SUDANA SHASHI KIRAN

REDG NUMBER:

21BCE8644

PROFFESOR:

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1. Design a web page to use various filters in PHP for server-side validation.

a. Validate an integer

b. Validate a float variable

c. Validate a Boolean variable

d. Validate an IP address

e. Validate an URL

f. Sanitize an integer

g. Sanitize an IP address

h. Sanitize an URL

i. Sanitize a float variable

j. Sanitize a Boolean variable

CODE:

FOR VALIDATION:

Valid_sanitization.php:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>PHP Filters</title>
```

```
<h1>NAME:SUDANA SHASHI KIRAN </h1>
```

```
<h1>RED NUMBER : 21BCE8644 </h1>
```

```
<style>
```

```
    body {
```

```
        font-family: Arial, sans-serif;
```

```
        margin: 0;
```

```
padding: 0;

background-color: #f2f2f2;

}
```

```
.container {

    max-width: 500px;

    margin: 0 auto;

    padding: 20px;

    background-color: #fff;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

}
```

```
h1 {

    text-align: center;

    margin-bottom: 20px;

}
```

```
form label {

    display: block;

    margin-bottom: 10px;

}
```

```
form input[type="text"],

form input[type="submit"] {

    width: 100%;

    padding: 10px;
```

```
margin-bottom: 15px;

border: 1px solid #ccc;

border-radius: 5px;

}
```

```
form input[type="submit"] {

    background-color: #4CAF50;

    color: #fff;

    cursor: pointer;

}
```

```
form input[type="submit"]:hover {

    background-color: #45a049;

}
```

```
.error-message {

    color: #f00;

    margin-bottom: 10px;

}
```

```
.valid-message {

    color: #0a0;

    margin-bottom: 10px;

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h1>PHP Filters Example</h1>
```

```
<form method="post" action="<?php echo  
htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
```

```
<label>Integer:</label>
```

```
<input type="text" name="integer_input"><br>
```

```
<label>Float:</label>
```

```
<input type="text" name="float_input"><br>
```

```
<label>Boolean:</label>
```

```
<input type="text" name="boolean_input"><br>
```

```
<label>IP Address:</label>
```

```
<input type="text" name="ip_input"><br>
```

```
<label>URL:</label>
```

```
<input type="text" name="url_input"><br>
```

```
<input type="submit" value="Submit"><br>
```

```
</form>
```

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // Validate and Sanitize an integer
```

```
    if (isset($_POST['integer_input'])) {
```

```
$integer = filter_var($_POST['integer_input'], FILTER_VALIDATE_INT);
```

```
if ($integer === false) {
```

```
    echo "<div class='error-message'>Invalid integer input!</div>";
```

```
} else {
```

```
    $sanitizedInteger = filter_var($integer, FILTER_SANITIZE_NUMBER_INT);
```

```
    echo "<div class='valid-message'>Valid integer: " . $sanitizedInteger . "</div>";
```

```
}
```

```
}
```

```
// Validate and Sanitize a float
```

```
if (isset($_POST['float_input'])) {
```

```
    $float = filter_var($_POST['float_input'], FILTER_VALIDATE_FLOAT);
```

```
if ($float === false) {
```

```
    echo "<div class='error-message'>Invalid float input!</div>";
```

```
} else {
```

```
    $sanitizedFloat = filter_var($float, FILTER_SANITIZE_NUMBER_FLOAT,  
FILTER_FLAG_ALLOW_FRACTION);
```

```
    echo "<div class='valid-message'>Valid float: " . $sanitizedFloat . "</div>";
```

```
}
```

```
}
```

```
// Validate and Sanitize a boolean
```

```
if (isset($_POST['boolean_input'])) {
```

```
    $boolean = filter_var($_POST['boolean_input'], FILTER_VALIDATE_BOOLEAN,  
FILTER_NULL_ON_FAILURE);
```

```
if ($boolean === null) {  
    echo "<div class='error-message'>Invalid boolean input!</div>";  
} else {  
    echo "<div class='valid-message'>Valid boolean: " . var_export($boolean, true) .  
"</div>";  
}  
}
```

// Validate and Sanitize an IP address

```
if (isset($_POST['ip_input'])) {  
    $ip = filter_var($_POST['ip_input'], FILTER_VALIDATE_IP);  
  
    if ($ip === false) {  
        echo "<div class='error-message'>Invalid IP address input!</div>";  
    } else {  
        $sanitizedIP = filter_var($ip, FILTER_SANITIZE_STRING);  
        echo "<div class='valid-message'>Valid IP address: " . $sanitizedIP . "</div>";  
    }  
}
```

// Validate and Sanitize a URL

```
if (isset($_POST['url_input'])) {  
    $url = filter_var($_POST['url_input'], FILTER_VALIDATE_URL);  
  
    if ($url === false) {  
        echo "<div class='error-message'>Invalid URL input!</div>";  
    }  
}
```

```
    } else {  
  
        $sanitizedURL = filter_var($url, FILTER_SANITIZE_URL);  
  
        echo "<div class='valid-message'>Valid URL: " . $sanitizedURL . "</div>";  
  
    }  
  
}  
  
}  
  
?>  
  
</div>  
  
</body>  
  
</html>
```

FOR SANITIZATION:

Sanitize.html:

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
    <title>PHP Filter Validation</title>  
  
<h1>NAME:SUDANA SHASHI KIRAN </h1>  
  
<h1>RED NUMBER : 21BCE8644 </h1>  
  
<style>  
  
    body {  
  
        font-family: Arial, sans-serif;  
  
        margin: 0;  
  
        padding: 0;  
  
        background-color: #f2f2f2;  
  
    }
```



```
.container {  
    max-width: 500px;  
    margin: 0 auto;  
    padding: 20px;  
    background-color: #fff;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
h1 {  
    text-align: center;  
    margin-bottom: 20px;  
}
```

```
form label {  
    display: block;  
    margin-bottom: 10px;  
}
```

```
form input[type="text"],  
form input[type="submit"] {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 15px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
}
```

```
form input[type="submit"] {  
    background-color: #4CAF50;  
    color: #fff;  
    cursor: pointer;  
}
```

```
form input[type="submit"]:hover {  
    background-color: #45a049;  
}
```

```
.error-message {  
    color: #f00;  
    margin-bottom: 10px;  
}
```

```
.valid-message {  
    color: #0a0;  
    margin-bottom: 10px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Enter Data to be Sanitized:</h2>
```

```
<form action="process_form_1.php" method="post">
```

```
<label for="integer_input">Integer:</label>
```

```
<input type="text" id="integer_input" name="integer_input" required><br>
```

```
<label for="ip_address_input">IP Address:</label>
```

```
<input type="text" id="ip_address_input" name="ip_address_input" required><br>
```

```
<label for="url_input">URL:</label>
```

```
<input type="text" id="url_input" name="url_input" required><br>
```

```
<label for="float_input">Float:</label>
```

```
<input type="text" id="float_input" name="float_input" required><br>
```

```
<label for="boolean_input">Boolean:</label>
```

```
<input type="text" id="boolean_input" name="boolean_input" required><br>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
</body>
```

```
</html>
```

process_form_1.php:

```
<?php
```

```
function sanitize_integer($input_str) {  
    return preg_replace('/^[^0-9]/', '', $input_str);  
}
```

```
function sanitize_ip_address($ip_address) {  
    preg_match('/\b\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}\b/', $ip_address, $matches);
```

```
    return isset($matches[0]) ? $matches[0] : null;
}

function sanitize_url($url) {
    preg_match('/(https?:\\S+)/', $url, $matches);
    return isset($matches[0]) ? $matches[0] : null;
}

function sanitize_float($input_str) {
    return preg_replace('/^[^0-9.]/', '', $input_str);
}

function sanitize_boolean($input_str) {
    return strtolower($input_str) === 'true' || strtolower($input_str) === 'yes' || $input_str === '1';
}

// Check if the form was submitted
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Sanitize the inputs

    $sanitized_integer = sanitize_integer($_POST["integer_input"]);
    $sanitized_ip_address = sanitize_ip_address($_POST["ip_address_input"]);
    $sanitized_url = sanitize_url($_POST["url_input"]);
    $sanitized_float = sanitize_float($_POST["float_input"]);
    $sanitized_boolean = sanitize_boolean($_POST["boolean_input"]);

    // Display the sanitized data
```

```

echo "<h2>Sanitized Data:</h2>";

echo "Sanitized Integer: " . $sanitized_integer . "<br>";

echo "Sanitized IP Address: " . $sanitized_ip_address . "<br>";

echo "Sanitized URL: " . $sanitized_url . "<br>";

echo "Sanitized Float: " . $sanitized_float . "<br>";

echo "Sanitized Boolean: " . var_export($sanitized_boolean, true) . "<br>";
} else {

    // If the form was not submitted, display an error message

    echo "<h2>Error:</h2>";

    echo "Please submit the form.";

}

?>

```

OUTPUT:

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

Service	Module	PID(s)	Port(s)	Actions
<input checked="" type="checkbox"/>	Apache	25664 19700	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL			Start Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

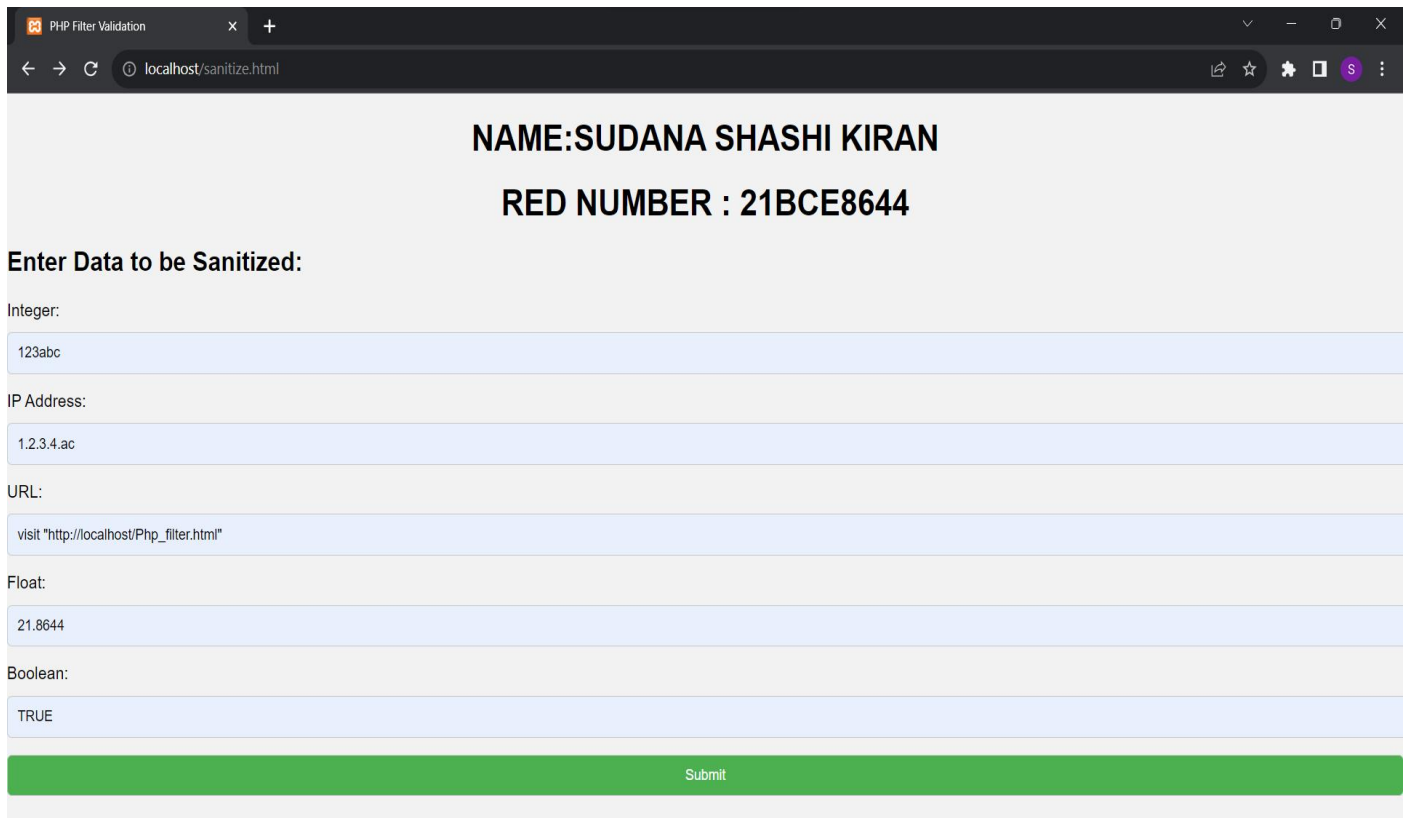
Log Window:

```

17:19:34 [main] Control Panel Ready
17:19:39 [Apache] Attempting to start Apache app...
17:19:46 [Apache] Status change detected: running
20:29:02 [Apache] Attempting to stop Apache (PID: 31472)
20:29:02 [Apache] Attempting to stop Apache (PID: 31316)
20:29:03 [Apache] Status change detected: stopped
20:49:53 [Apache] Attempting to start Apache app...
20:49:53 [Apache] Status change detected: running

```

FOR SANITIZATION:



NAME:SUDANA SHASHI KIRAN

RED NUMBER : 21BCE8644

Enter Data to be Sanitized:

Integer:
123abc

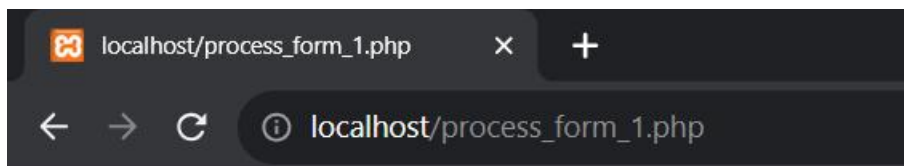
IP Address:
1.2.3.4.ac

URL:
visit "http://localhost/Php_filter.html"

Float:
21.8644

Boolean:
TRUE

Submit



Sanitized Data:

Sanitized Integer: 123
Sanitized IP Address: 1.2.3.4
Sanitized URL: http://localhost/Php_filter.html"
Sanitized Float: 21.8644
Sanitized Boolean: true

FOR VALIDATION:

NAME:SUDANA SHASHI KIRAN
RED NUMBER : 21BCE8644

PHP Filters Example

Integer:

Float:

Boolean:

IP Address:

URL:

NAME:SUDANA SHASHI KIRAN
RED NUMBER : 21BCE8644

PHP Filters Example

Integer:

Float:

Boolean:

IP Address:

URL:

Valid integer: 8644
Valid float: 21.8644
Valid boolean: true
Valid IP address: 8.6.4.4
Valid URL: http://localhost/Php_filter.html

2. Develop an web page to use various file handling function available in PHP.

CODE:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>PHP File Handling Example</title>
```

```
<style>
```

```
body {
```

```
    background-color: #f0f0f0;
```

```
    font-family: Arial, sans-serif;
```

```
    color: #333;
```

```
    line-height: 1.6;
```

```
    max-width: 800px;
```

```
    margin: 0 auto;
```

```
    padding: 20px;
```

```
}
```

```
h1 {
```

```
    color: #007bff;
```

```
}
```

```
h2 {
```

```
    color: #ff7a59;
```

```
    margin-top: 30px;
```

```
}
```

```
pre {
```



```
background-color: #f8f8f8;

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

}
```

```
p {

margin-bottom: 15px;

}
```

```
.button {

display: inline-block;

background-color: #007bff;

color: #fff;

padding: 10px 20px;

border: none;

border-radius: 5px;

cursor: pointer;

text-decoration: none;

}
```

```
.button:hover {

background-color: #0056b3;

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>PHP File Handling Example</h1>
```

```
<?php
```

```
// File paths
```

```
$file_path = "newfile.txt";
```

```
$new_file_path = "new_file.txt";
```

```
// Function to read a file and display its contents
```

```
function read_file($file_path) {
```

```
    if (file_exists($file_path)) {
```

```
        $content = file_get_contents($file_path);
```

```
        echo "<h2>File Content:</h2>";
```

```
        echo "<pre>" . htmlspecialchars($content) . "</pre>";
```

```
    } else {
```

```
        echo "<p>File not found.</p>";
```

```
    }
```

```
}
```

```
// Function to write to a file
```

```
function write_to_file($file_path, $content) {
```

```
    file_put_contents($file_path, $content);
```

```
    echo "<p>Content written to file successfully.</p>";
```

```
}
```

```
// Function to append to a file
```

```
function append_to_file($file_path, $content) {  
    file_put_contents($file_path, $content, FILE_APPEND);  
    echo "<p>Content appended to file successfully.</p>";  
}
```

// Function to copy a file

```
function copy_file($source, $destination) {  
    if (copy($source, $destination)) {  
        echo "<p>File copied successfully.</p>";  
    } else {  
        echo "<p>Failed to copy the file.</p>";  
    }  
}
```

// Function to rename a file

```
function rename_file($file_path, $new_file_path) {  
    if (rename($file_path, $new_file_path)) {  
        echo "<p>File renamed successfully.</p>";  
    } else {  
        echo "<p>Failed to rename the file.</p>";  
    }  
}
```

// Function to delete a file

```
function delete_file($file_path) {  
    if (unlink($file_path)) {
```

```
    echo "<p>File deleted successfully.</p>";

} else {

    echo "<p>Failed to delete the file.</p>";

}

}

// Example usage

read_file($file_path);

$content_to_write = "This is a new content to write to the file.";

write_to_file($new_file_path, $content_to_write);

$content_to_append = "\nThis content will be appended to the file.";

append_to_file($new_file_path, $content_to_append);

$copied_file_path = "copied_file.txt";

copy_file($new_file_path, $copied_file_path);

$new_name_for_file = "renamed_file.txt";

rename_file($new_file_path, $new_name_for_file);

delete_file($copied_file_path);

?>
```

</body>

</html>

OUTPUT:

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Modules

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	25664 19700	80, 443	<input type="button" value="Stop"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	MySQL			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	FileZilla			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Mercury			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>
<input type="checkbox"/>	Tomcat			<input type="button" value="Start"/> <input type="button" value="Admin"/> <input type="button" value="Config"/> <input type="button" value="Logs"/>

17:19:34 [main] Control Panel Ready
17:19:39 [Apache] Attempting to start Apache app...
17:19:46 [Apache] Status change detected: running
20:29:02 [Apache] Attempting to stop Apache (PID: 31472)
20:29:02 [Apache] Attempting to stop Apache (PID: 31316)
20:29:03 [Apache] Status change detected: stopped
20:49:53 [Apache] Attempting to start Apache app...
20:49:53 [Apache] Status change detected: running

Config
Netstat
Shell
Explorer
Services
Help
Quit

PHP File Handling Example

localhost/file_handling_example.php

PHP File Handling Example

File Content:

NAME: SUDANA SHASHI KIRAN
REDG NUMBER :21BCE8644

Content written to file successfully.
Content appended to file successfully.
File copied successfully.
File renamed successfully.
File deleted successfully.

file_handling_example	01-08-2023 21:17	PHP Source File	4 KB
newfile	01-08-2023 21:18	Text Document	1 KB
renamed_file	01-08-2023 22:16	Text Document	1 KB



file_handling_example

newfile



File

Edit

View

NAME: SUDANA SHASHI KIRAN
REDG NUMBER :21BCE8644