

Filters



#PHP Notes

| Filters in PHP



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Validating and Sanitizing Data with Filters

- Sanitizing and validating user input is one of the most common tasks in a web application.
- To make this task easier PHP provides native filter extension that you can use to sanitize or validate data such as e-mail addresses, URLs, IP addresses, etc.
- To validate data using filter extension you need to use the PHP's `filter_var()` function.

`filter_var(variable, filter, options)`



Sanitize a String

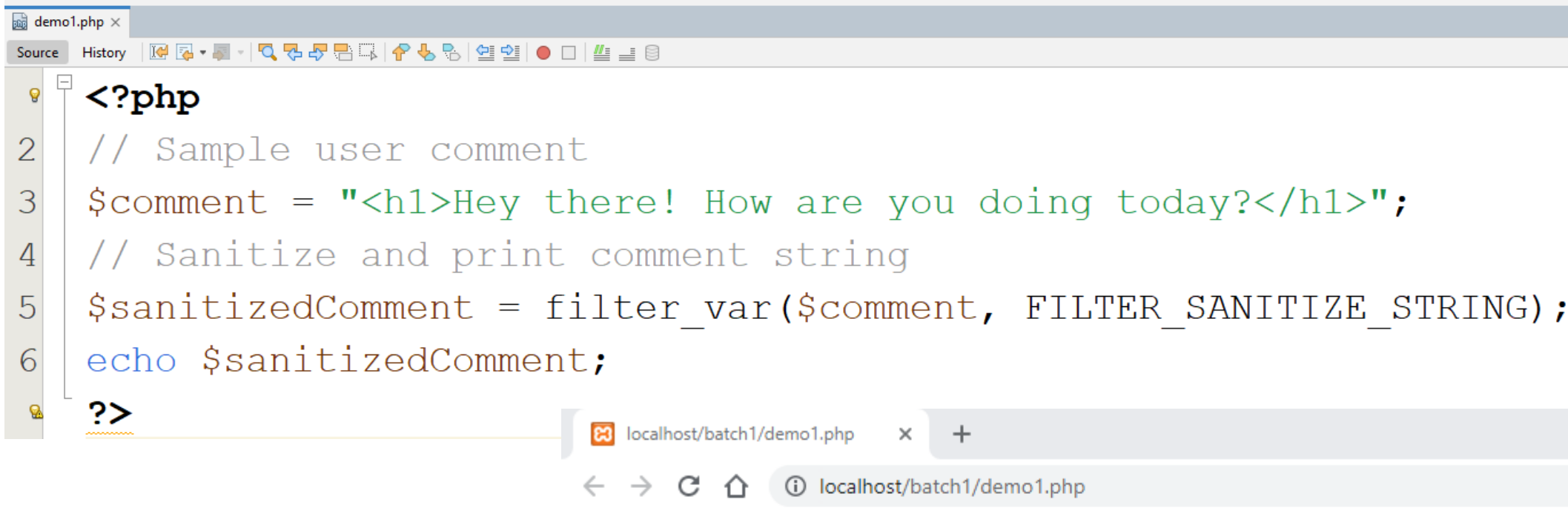
- The following example will sanitize a string by removing all HTML tags from it:

```
<?php
// Sample user comment
$comment = "<h1>Hey there! How are you doing today?</h1>";

// Sanitize and print comment string
$sanitizedComment = filter_var($comment, FILTER_SANITIZE_STRING);
echo $sanitizedComment;
?>
```



Sanitize a String



The screenshot shows a code editor window titled 'demo1.php' with the following PHP code:

```
<?php
2 // Sample user comment
3 $comment = "<h1>Hey there! How are you doing today?</h1>";
4 // Sanitize and print comment string
5 $sanitizedComment = filter_var($comment, FILTER_SANITIZE_STRING);
6 echo $sanitizedComment;
?>
```

Below the code editor, a browser window is open at 'localhost/batch1/demo1.php'. The browser's address bar shows the URL, and the page content displays the sanitized output: 'Hey there! How are you doing today?'.

Hey there! How are you doing today?

Validate Integer Values

- The following example will validate whether the value is a valid integer or not.

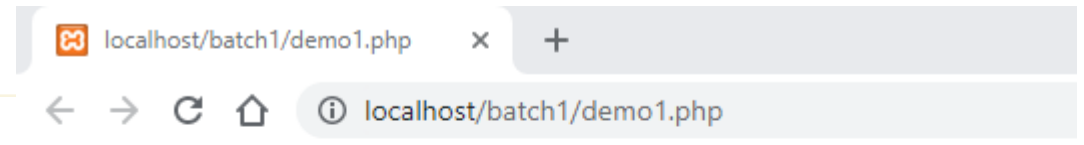
```
<?php
// Sample integer value
$int = 20;

// Validate sample integer value
if(filter_var($int, FILTER_VALIDATE_INT)){
    echo "The <b>$int</b> is a valid integer";
} else{
    echo "The <b>$int</b> is not a valid integer";
}
?>
```



Validate Integer Values

```
demo1.php x
Source History
<?php
2 // Sample integer value
3 $int = 20;
4 // Validate sample integer value
5 if(filter_var($int, FILTER_VALIDATE_INT)){
6     echo "The <b>$int</b> is a valid integer";
7 } else{
8     echo "The <b>$int</b> is not a valid integer";
9 }
?>
```



The **20** is a valid integer



Validate IP Addresses

- The following example will validate whether the value is a valid IP address or not.

■

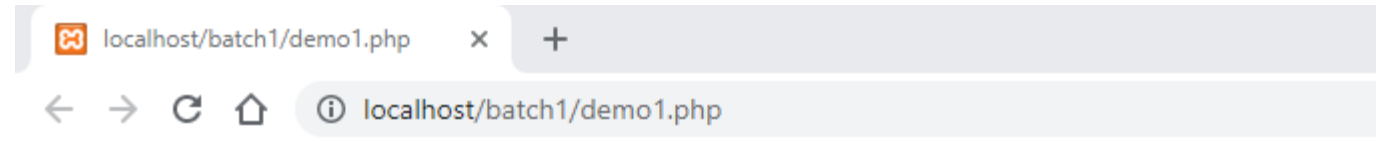
```
<?php
// Sample IP address
$ip = "172.16.254.1";

// Validate sample IP address
if(filter_var($ip, FILTER_VALIDATE_IP)){
    echo "The <b>$ip</b> is a valid IP address";
} else {
    echo "The <b>$ip</b> is not a valid IP address";
}
?>
```



Validate IP Addresses

```
demo1.php x
Source History
<?php
2 // Sample IP address
3 $ip = "172.16.254.1";
4
5 // Validate sample IP address
6 if(filter_var($ip, FILTER_VALIDATE_IP)){
7     echo "The <b>$ip</b> is a valid IP address";
8 } else {
9     echo "The <b>$ip</b> is not a valid IP address";
10 }
?>
```



The **172.16.254.1** is a valid IP address



Sanitize and Validate Email Addresses

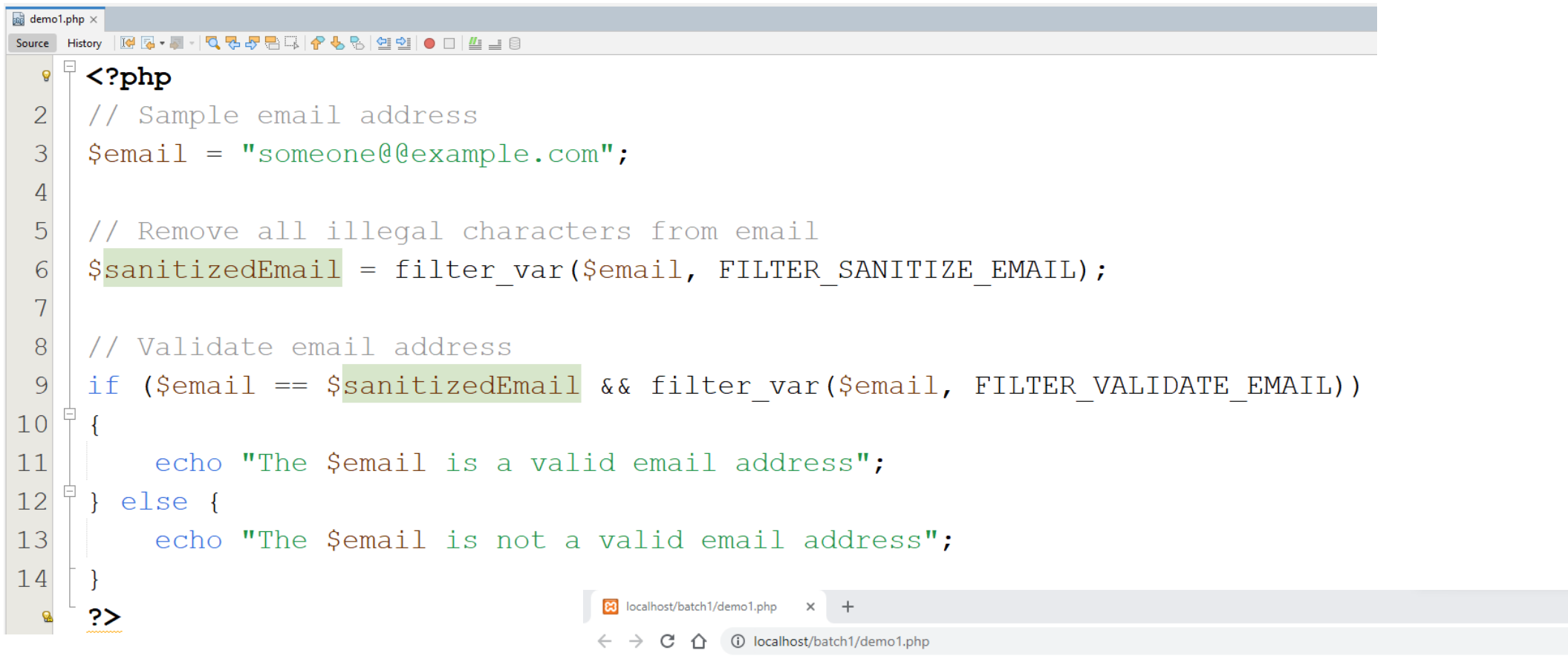
- The following example will show you how to sanitize and validate an e-mail address.

```
■ <?php
// Sample email address
$email = "someone@@example.com";

// Remove all illegal characters from email
$sanitizedEmail = filter_var($email, FILTER_SANITIZE_EMAIL);

// Validate email address
if($email == $sanitizedEmail && filter_var($email, FILTER_VALIDATE_EMAIL)){
    echo "The $email is a valid email address";
} else{
    echo "The $email is not a valid email address";
}
?>
```





```
<?php
2 // Sample email address
3 $email = "someone@@example.com";
4
5 // Remove all illegal characters from email
6 $sanitizedEmail = filter_var($email, FILTER_SANITIZE_EMAIL);
7
8 // Validate email address
9 if ($email == $sanitizedEmail && filter_var($email, FILTER_VALIDATE_EMAIL))
10 {
11     echo "The $email is a valid email address";
12 } else {
13     echo "The $email is not a valid email address";
14 }
?>
```

localhost/batch1/demo1.php x +
localhost/batch1/demo1.php

The someone@@example.com is not a valid email address



Sanitize and Validate URLs

- The following example will show you how to sanitize and validate a url.

```
<?php
// Sample website url
$url = "http://www.example.com";

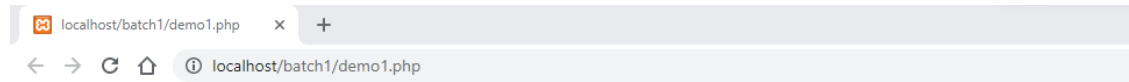
// Remove all illegal characters from url
$sanitizedUrl = filter_var($url, FILTER_SANITIZE_URL);

// Validate website url
if($url == $sanitizedUrl && filter_var($url, FILTER_VALIDATE_URL)){
    echo "The $url is a valid website url";
} else{
    echo "The $url is not a valid website url";
}
?>
```



Sanitize and Validate URLs

```
demo1.php x
Source History
1 <?php
2 // Sample website url
3 $url = "http://www.example.com";
4
5 // Remove all illegal characters from url
6 $sanitizedUrl = filter_var($url, FILTER_SANITIZE_URL);
7
8 // Validate website url
9 if($url == $sanitizedUrl && filter_var($url, FILTER_VALIDATE_URL)){
10     echo "The $url is a valid website url";
11 } else{
12     echo "The $url is not a valid website url";
13 }
14 ?>
```



The http://www.example.com is not a valid website url



Task

- Create one Contact Form Having
 - Name,
 - MobileNumber
 - Email
 - IPAddress
 - Website URL
- Filter and Sanitize Data and Display Appropriate Warning.



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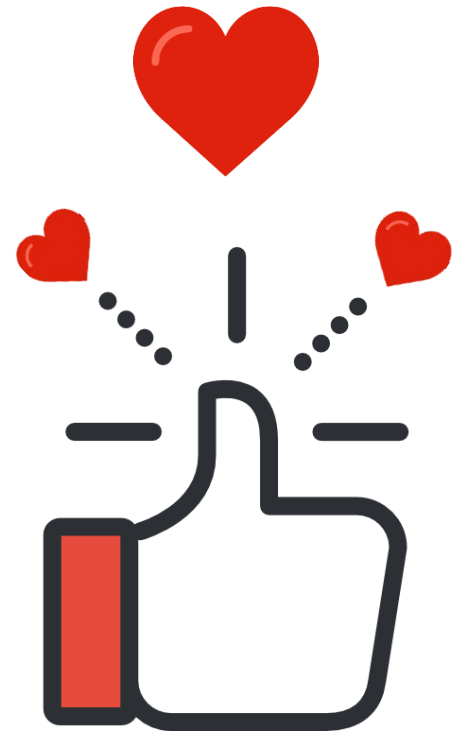
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/O79PXX79-XX79-170615221520-S5C4_BZDET



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