Filters

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

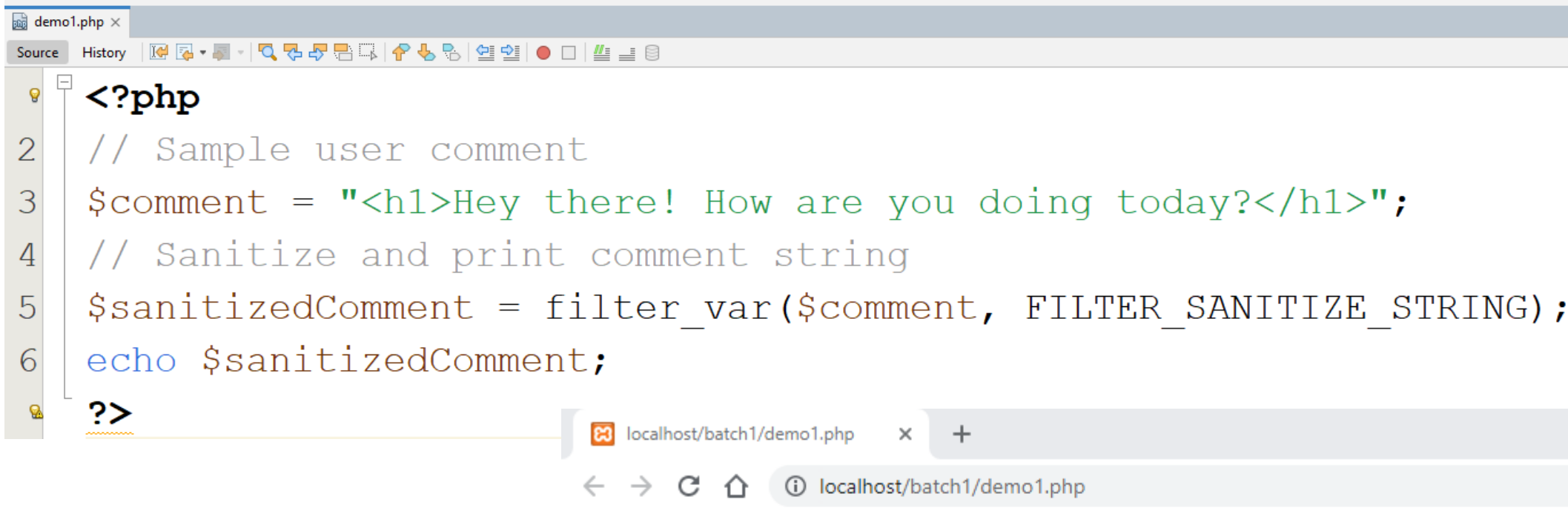- The following example will sanitize a string by removing all HTML tags from it:

```php
<?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

```php
<?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;
?>
```

localhost/batch1/demo1.php

localhost/batch1/demo1.php

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
<?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";
}
?>
```
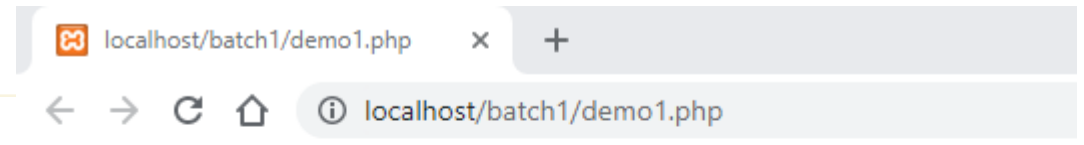
Validate Integer Values

```php
<?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";
}
?>
```

localhost/batch1/demo1.php

localhost/batch1/demo1.php

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
<?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";
}
?>
```
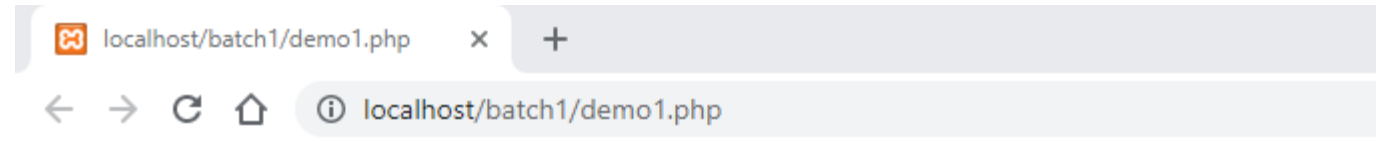
Validate IP Addresses

```php
<?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";
}
?>
```

localhost/batch1/demo1.php

localhost/batch1/demo1.php

The **172.16.254.1** is a valid IP address
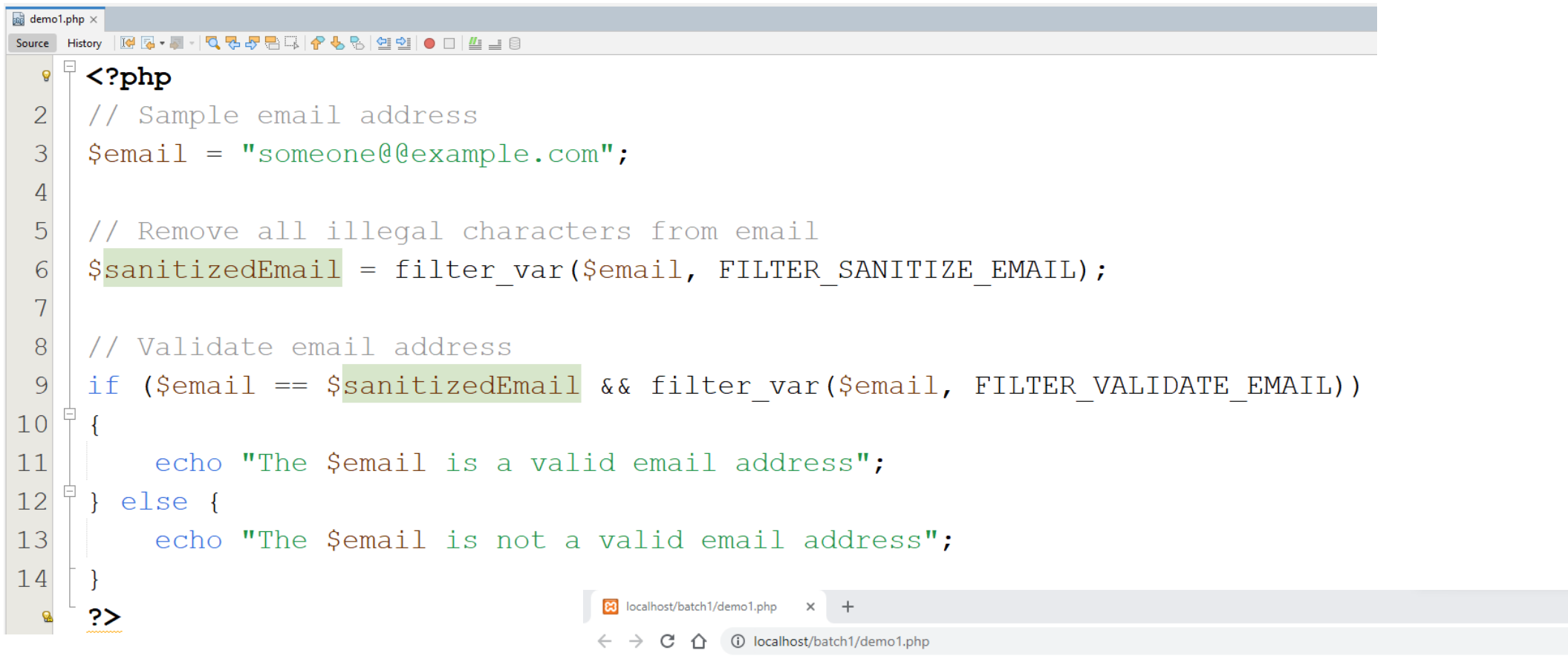
Sanitize and Validate Email Addresses

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

```php
<?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
<?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";
}
?>
```

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
<?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

```php
<?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";
}
?>
```

localhost/batch1/demo1.php

localhost/batch1/demo1.php
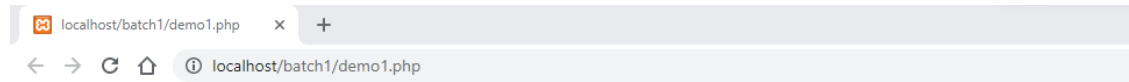
The http:://www.example.com is not a valid website url

Task

- Create one Contact Form Having
  - Name,
  - MobileNumber
  - Email
  - IPAddress
  - Website URL

- Filter and Sanitize Data and Display Appropriate Warning.

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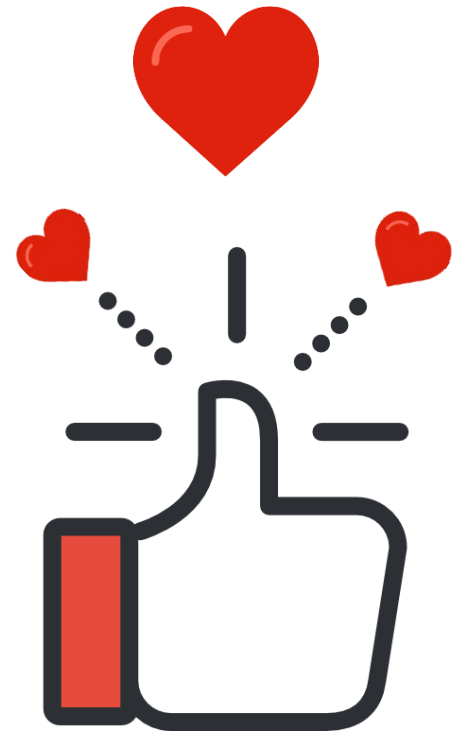
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