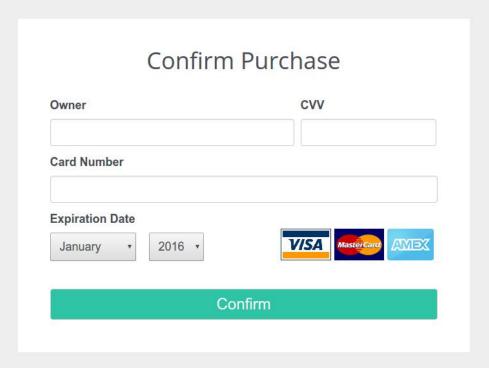
# Web Programming #8 Forms Handling



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PHP also provides the capability to handle input from users through HTML forms in a straightforward manner



#### PHP Global Variables - Superglobals

Superglobals were introduced in PHP 4.1.0, and are built-in variables that are always available in all scopes.

- \$GLOBALS
- \$\_SERVER
- \$ REQUEST
- \$ POST
- \$ GET
- \$ FILES
- \$ ENV
- \$\_COOKIE
- \$\_SESSION



#### Superglobals in Forms Handling

- \$\_GET this contains an associative array of variables passed to the current script using query parameters in the URL
- \$\_POST this contains an associative array of variables passed to the current script using a form submitted using the "POST" method
- \$\_REQUEST this contains the contents of \$\_GET,
   \$\_POST, and \$\_COOKIE

#### Superglobals in Forms Handling

```
<html>
    <body>
    $ REQUEST: <?php print r($ REQUEST);?><br>
    $ GET: <?php print r($ GET);?><br>
    $ POST: <?php print r($ POST);?><br>
    <form method="GET">
        GET Form:
        <input type="text" name="get_name">
        <input type="submit" value="Submit GET">
10 </form>
    <form method="POST">
        POST Form:
        <input type="text" name="post name">
        <input type="submit" value="Submit POST">
15 </form>
    <a href="form1.php">Reset</a>
    </body>
    </html>
```



### GET Form Handling

- In HTML, setting a form's method attribute to "get" specifies that you would like the form to be submitted using the GET method.
- When using this method, the form entries are passed as parameters in a URL query string.

http://localhost/form1.php?first=ellen&last=richards

 The parameter names (first and last) come from the name attribute of each form input.

```
<form method="GET">
     <input type="text" name="first">
          <input type="text" name="last">
                <input type="submit" value="Submit">
                </form>
```



#### **GET Form Handling**

#### Fixes code below with GET Method

```
<html>
<body>
    <form>
       Country:
        <input type="text">
        (hr)
        Language:
        <input type="text">
        (br)
        <input type="submit" value="Submit">
   </form>
   <hr>
    Your language is: <!--Show Language input here-->
    Your country is: <!--Show COuntry input here-->
    <a href="index.php">Reset</a>
</body>
</html>
```



#### **POST Form Handling**

- When using POST to submit forms, you will not see the URL change.
- The form data is sent using the headers of the HTTP request instead of URL parameters.



#### **POST Form Handling**

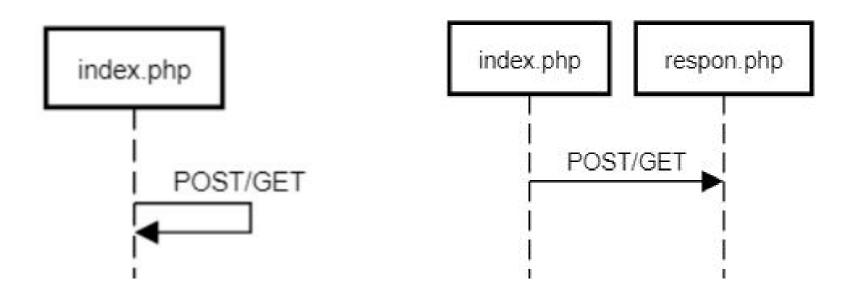
#### Fixes code below with POST Method

```
<html>
<body>
    <form>
       Favorite Color:
        <input type="text">
       <hr>
       Favorite Food:
       <input type="text">
        <br>
        <input type="submit" value="Submit">
   </form>
   <br>
    Best food is: <!--Show Food input here-->
    Best color is: <!--Show Color input here-->
    <a href="index.php">Reset</a>
</body>
</html>
```



#### **Action Attribute**

If you would like to have the user navigate to a new URL and handle the form input there, you can specify the URL in the form's action attribute.



<form method="GET" action="respon.php">



#### Action Attribute

#### index.php

```
<html>
<body>
    <form method="GET">
        First Name:
        <input type="text" name="first">
        <br>
        Last Name:
        <input type="text" name="last">
        <br>
        <input type="submit" value="Submit">
    </form>
    <a href="index.php">Reset</a>
</body>
</html>
```



#### Action Attribute

#### respon.php



### Homework

Lapak mainan	
Home Profil Product Portofolio Contact	Nama Email Komentar  Kirim
	Copyright 2015

contact.php --> show user input in page

## FORM Validation

- Make sure the information that will be stored in the database is accurate.
- Make sure operations that depend on the data to work.
- Keep our site secure.

#### Client-Side Validation

```
<html>
  <body>
    <h1>Basic HTML Validation</h1>
    <form action="" method="POST">
      <label for="text">Masukkan Nama:</label>
        <input id="nama" name="nama" type="text"</pre>
        required minlength="3" maxlength="100">
      <label for="usia">Masukkan Usia :</label>
        <input type="number" name="usia" id="usia"</pre>
        required min="1" max="123">
      <br><br><br>>
      <input type="submit" value="Submit">
    </form>
    <?=!empty($ POST['nama'])?"Nama : ".$ POST['nama']:null?>
   <br>
    <?=!empty($ POST['usia'])?"Usia : ".$ POST['usia']:null?>
  </body>
</html>
```



#### Server-Side Validation

- Front-end validations are easy to bypass, a malicious user can simply turn off JavaScript on their browser.
- Potential for middleman attacks in which data is changed after the request is submitted by a user but before it arrives at the server.



## Server-Side Validation - Exercise

Rewrite code in the previous slide and add a server-side validation.

## Basic Data Sanitizing

- Transform input data into a safe and standardized format.
- Use htmlspecialchars()
- e.g. htmlspecialchars(\$\_POST['nama'])



#### Basic Data Sanitizing - exercise

Rewrite code in the previous slide and sanitize every input from user using htmlspecialchars().



### Basic Sanitization with filter\_var()

- This function operates on a variable and passes it through a "filter" that produces the desired outcome.
- As its first argument, filter\_var() takes a
   variable. As its second, it takes an ID representing
   the type of filtering that should be performed.
- <a href="https://www.php.net/manual/en/filter.filters.sanitize">https://www.php.net/manual/en/filter.filters.sanitize</a>

```
$\text{sphp}
$\text{bad_email} = '<a href="www.spam.evil">@gmail.com';
echo filter_var($\text{bad_email}, FILTER_SANITIZE_EMAIL);
// Prints: ahref=www.spam.evil@gmail.com
```



#### Basic Validation with filter\_var()

- Validation make a False return.
- As its first argument, filter\_var() takes a
   variable. As its second, it takes an ID representing
   the type of filtering that should be performed.
- https://www.php.net/manual/en/filter.filters.validate.php

```
<?php
    $bad_email = 'fake - at - prank dot com';
    if (filter_var($bad_email, FILTER_VALIDATE_EMAIL)){
        echo "Valid email!";
    } else {
        echo "Invalid email!";
    }
}</pre>
```