

# PHP ADVANCE

# BEFORE WE GET STARTED

Make sure you done all of PHP basic exercise at  
<https://github.com/namnh06/aptech-php-course>

# FORM HANDLING

- Form data is HTML form.
- Using PHP superglobals `$_GET` and `$_POST` to collect data from a Form.
- Methods using in form is GET or POST.
- Information sent from a form with the GET method visible to everyone and invisible to others with the POST method.
- Should use POST method for security data.

```
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5  </head>
6
7  <body>
8      <form action="aptech.php" method="post">
9          Name :
10         <input type="text" name="name">
11         <br> Project :
12         <input type="text" name="project">
13         <br>
14         <button type="submit">Submit</button>
15     </form>
16 </body>
17
18 </html>
```

# FORM VALIDATION

- Security is one of the most important in PHP forms.
- Using superglobals variable `$_SERVER["PHP_SELF"]`, built-in function `htmlspecialchars()`, `trim()`, `stripslashes()`, `preg_match()`, `filter_var()` of PHP to secure and protect your data of PHP form.

```
1  <?php
2
3  $name = $project = "";
4
5  if ($_SERVER["REQUEST_METHOD"] == "POST") {
6      $name = test_input($_POST["name"]);
7      $project = test_input($_POST["project"]);
8  }
9
10 function test_input($data)
11 {
12     $data = trim($data);
13     $data = stripslashes($data);
14     $data = htmlspecialchars($data);
15     return $data;
16 }
```

# FILE OPEN/READ/CLOSE

- Can use `readfile()` to open files, but another way is better is using `fopen()`.
- Open it, have to close it.

Modes	Description
r	<b>Open a file for read only.</b> File pointer starts at the beginning of the file
w	<b>Open a file for write only.</b> Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a	<b>Open a file for write only.</b> The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x	<b>Creates a new file for write only.</b> Returns FALSE and an error if file already exists
r+	<b>Open a file for read/write.</b> File pointer starts at the beginning of the file
w+	<b>Open a file for read/write.</b> Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file
a+	<b>Open a file for read/write.</b> The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x+	<b>Creates a new file for read/write.</b> Returns FALSE and an error if file already exists

```
1  <?php
2
3  $file = fopen("test.txt", "r") or die("Can't open file.");
4
5  echo fread($file, filesize("test.txt"));
6
7  fclose($file);
```

# FILE CREATE/WRITE

- Open and create a file is using the same function `fopen()`.
- Writing the file depend on mode of `fopen()`.
- Carefully with permission of the file.
- Changes file mode by built-in function `chmod()`.

```
1  <?php
2
3  $file = fopen("nam.txt", "a+") or die("Can't open the file");
4
5  fwrite($file, "\nNews Website");
6
7  fclose($file);
8
9  $file = fopen("nam.txt", "a+") or die("Can't open the file");
10
11  while (!feof($file)) {
12      echo fgets($file) . "<br>";
13  }
14
15  fclose($file);
```

# FILE UPLOAD

- Carefully with your server config at “php.ini” file, remember turn on “file\_uploads”.
- HTML form upload file have a attribute is enctype=“multipart/form-data”.
- Strict data is the best.

```
1  <?php
2  $targetDirectory = "uploads/";
3  if (!file_exists($targetDirectory)) {
4      mkdir($targetDirectory, 0777, true);
5  }
6  $targetFile = $targetDirectory . basename($_FILES["fileToUpload"]["name"]);
7  $isUploadSuccess = true;
8  $imageFileType = strtolower(pathinfo($targetFile, PATHINFO_EXTENSION));
9  if ($_POST["submit"]) {
10     $check = getimagesize($_FILES["fileToUpload"]["tmp_name"]);
11     if ($check !== false) {
12         echo "File is an image - " . $check["mime"] . ".<br>";
13         $isUploadSuccess = true;
14     } else {
15         echo "File is not an image<br>";
16         $isUploadSuccess = false;
17     }
18 }
19 if (!$isUploadSuccess) {
20     echo "Something wrong, your file can not upload";
21 } else {
22     if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $targetFile)) {
23         echo "The file " . basename($_FILES["fileToUpload"]["name"]) . " has
24         been uploaded.";
25     } else {
26         echo "There was an error uploading your file";
27     }
28 }
```

# FILE INCLUDE/REQUIRE

- Include or require statment takes all the text/code/markup that exists in the specified file and copies it into the file that uses the include or require statment.
- Include will import the file if it's already, if it's not, move on.
- Require will import the file if it's already, if it's not, stop.
- Require should be using for the core files like connect database or enviroment files.
- Recommend is using `include_once` or `requirie_once`, it's maxization the code.



# COOKIES

- Cookie is using for the user's computer. It's exists in front-end.
- Remember do the setcookie() function to create or update cookie before <html> tag.

```
1  <?php
2  $cookieName = "user";
3  $cookieValue = "NamNH";
4  setcookie($cookieName, $cookieValue, time() + (86400 * 30), "/");
5  ?>
6
7  <!DOCTYPE html>
8  <html>
9  <body>
10
11  <?php
12  if (!isset($_COOKIE[$cookieName])) {
13      echo "Cookie named '" . $cookieName . "' is not set!";
14  } else {
15      echo "Cookie '" . $cookieName . "' is set!<br>";
16      echo "Value is: " . $_COOKIE[$cookieName];
17  }
18  ?>
19
20  </body>
21  </html>
```

# SESSIONS

- Session is store in server, not in the front-end.
- Users have permission can get it from server my using PHP global variable `$_SESSION`.
- `Session_start()` must in the top of the file. Before any html tags.

```
1  <?php
2  session_start();
3  ?>
4  <!DOCTYPE html>
5  <html>
6  <body>
7
8  <?php
9  $_SESSION["myName"] = "NamNH";
10 $_SESSION["myProject"] = "News Website";
11 echo "Session variables are set.";
12 ?>
13
14 </body>
15 </html>
```

```
1  <?php
2  session_start();
3  ?>
4  <!DOCTYPE html>
5  <html>
6  <body>
7
8  <?php
9  print_r($_SESSION);
10 ?>
11
12 </body>
13 </html>
```

**TIME TO PRACTICE.**