

## HP Forms

PHP Forms are used to collect data from users using HTML form elements like text boxes, radio buttons, checkboxes, and submit buttons. The data entered by the user is sent to the server for processing.

### Example:

```
<form method="post">

<input type="text" name="username">

<input type="submit">

</form>
```

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## PHP Form Handling

Form handling means receiving and processing the form data on the server using PHP superglobals like `$_POST` or `$_GET`.

### Example:

```
$username = $_POST['username'];

echo $username;
```

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## PHP Form Validation

Form validation ensures that the user has entered correct and meaningful data before it is processed or stored.

### Example:

```
if(empty($username)){

    echo "Username is required";

}
```

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## PHP Form Required

Required validation is used to make sure that mandatory fields are not left empty by the user.

**Example:**

```
if($_POST['username']=="){  
  
    echo "Field cannot be empty";  
  
}
```

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**PHP Form URL / E-mail**

PHP provides built-in filters to check whether an email address or URL is valid or not.

**Example:**

```
filter_var($email, FILTER_VALIDATE_EMAIL);
```

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**PHP Date and Time**

PHP Date and Time functions are used to show current date, time, or to work with timestamps in web applications (like showing login time, expiry date, etc.).

**◆ date()**

Used to format and display date/time.

**Example:**

```
echo date("d-m-Y");
```

Output: 01-01-2026

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**◆ time()**

Returns current Unix timestamp (seconds since Jan 1, 1970).

**Example:**

```
echo time();
```

Use: calculate expiry time, session duration.

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**◆ mktime()**

Creates a timestamp for a specific date & time.

**Example:**

```
echo date("d-m-Y", mktime(0,0,0,12,25,2025));
```

Christmas date show karega 🎄

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◆ **strtotime()**

Converts text date into timestamp.

**Example:**

```
echo date("d-m-Y", strtotime("+7 days"));
```

Use: next week / expiry date.

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◆ **Timezone**

```
date_default_timezone_set("Asia/Kolkata");
```

```
echo date("H:i:s");
```

India time show hovega IN

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**PHP Include**

include is used to add one PHP file into another (reuse code).

**Example:**

```
include "header.php";
```

Use: navbar, footer, database connection.

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**PHP File Handling**

File handling means working with files on the server (read, write, upload).

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## PHP File Open / Read

Open and read file data.

### Example:

```
$file = fopen("data.txt","r");  
  
echo fread($file, filesize("data.txt"));  
  
fclose($file);
```

Use: read logs, text files.

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## PHP File Create / Write

Create a file and write data.

### Example:

```
$file = fopen("data.txt","w");  
  
fwrite($file,"Hello PHP");  
  
fclose($file);
```

Use: save user data, reports.

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## PHP File Upload

Used to upload files from user system to server.

### Example:

```
move_uploaded_file($_FILES["file"]["tmp_name"], "uploads/file.jpg");
```

: image upload, resume upload.

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## PHP Cookies

Cookies store small data in the user's browser.

### Example:

```
setcookie("user","Jaspreet", time()+3600);
```

Use: remember user, theme, language.

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## **PHP Sessions**

Sessions store user data on the server.

### **Example:**

```
session_start();
```

```
$_SESSION["user"] = "Jaspreet";
```

Use: login system, cart system.

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## **PHP Filters**

Filters clean or validate user input.

### **Example (sanitize):**

```
filter_var($name, FILTER_SANITIZE_STRING);
```

Use: prevent hacking, XSS attacks.

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## **PHP Filters Advanced**

Used for strict validation like email, URL.

### **Example:**

```
filter_var($email, FILTER_VALIDATE_EMAIL);
```

Agar email valid aa → TRUE.

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## **PHP Callback Functions**

Function passed as argument to another function.

### **Example:**

```
function myFunc($item){  
    return strlen($item);  
}  
  
print_r(array_map("myFunc", ["PHP","HTML"]));
```

Use: sorting, filtering arrays.

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