```php
<html>
<head>
<style>
.error {color: #FF0000;}
</style>
</head>
<body>

<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = $websiteErr = "";
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
  if (empty($_POST["name"])) {
    $nameErr = "Name is required";
  } else {
    $name = test_input($_POST["name"]);
  }
```

```php
if (empty($_POST["email"])) {
  $emailErr = "Email is required";
} else {
  $email = test_input($_POST["email"]);
}

if (empty($_POST["website"])) {
  $website = "";
} else {
  $website = test_input($_POST["website"]);
}

if (empty($_POST["comment"])) {
  $comment = "";
} else {
  $comment = test_input($_POST["comment"]);
}

if (empty($_POST["gender"])) {
  $genderErr = "Gender is required";
```

```php
  if (empty($_POST["gender"])) {
    $genderErr = "Gender is required";
  } else {
    $gender = test_input($_POST["gender"]);
  }
}

function test_input($data) {
  $data = trim($data);
  $data = stripslashes($data);
  $data = htmlspecialchars($data);
  return $data;
}
?>

<h2>PHP Form Validation Example</h2>
<p><span class="error">* required field</span></p>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
  Name: <input type="text" name="name">
```

```php
    <span class="error"><?php
echo $websiteErr;?></span>
    <br><br>
    Comment: <textarea
name="comment" rows="5"
cols="40"></textarea>
    <br><br>
    Gender:
    <input type="radio"
name="gender"
value="female">Female
    <input type="radio"
name="gender"
value="male">Male
    <input type="radio"
name="gender"
value="other">Other
    <span class="error">* <?php
echo $genderErr;?></span>
    <br><br>
    <input type="submit"
name="submit" value="Submit">

</form>

<?php
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $website;
echo "<br>";
echo $comment;
echo "<br>";
echo $gender;
?>

</body>
</html>
```

PHP Form Validation Example

Name: [   ] *

E-mail: [   ] *

Website: [   ]

Comment:

[   ]

Gender: ⦿ Female ⦿ Male ⦿ Other * Gender is required

Submit

Your Input:

Abc
Abc@gmail.com
Www.abc.com
Ok

A session is a way to store information (in variables) to be used across multiple pages.

Unlike a cookie, the information is not stored on the users computer.

What is a PHP Session?

When you work with an application, you open it, do some changes, and then you close it. This is much like a Session. The computer knows who you are. It knows when you start the application and when you end. But on the internet there is one problem: the web server does not know who you are or what you do, because the HTTP address doesn't maintain state.

Session variables solve this problem by storing user information to be used across multiple pages (e.g. username, favorite color, etc). By default, session variables last until the user closes the browser.

So; Session variables hold information about one single user, and are available to all pages in one application.

Start a PHP Session

A session is started with the `session_start()` function.

Session variables are set with the PHP global variable: $_SESSION.

```php
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// Set session variables
$_SESSION["favcolor"] = "green";
$_SESSION["favanimal"] = "cat";
echo "Session variables are set.";
?>

</body>
</html>
```

Session variables are set.

- **Accessing Session Data**: Data stored in sessions can be easily accessed by firstly calling **session_start()** and then by passing the corresponding key to the **$_SESSION** associative array.

  The PHP code to access a session data with two session variables Rollnumber and Name is shown below:

```php
<?php

session_start();

$_SESSION["Rollnumber"] = "11";
$_SESSION["Name"] = "Ajay";

?>
```

```php
<?php

session_start();

echo 'The Name of the student is :' . $_SESSION["Name"] . '<br>';
echo 'The Roll number of the student is :' . $_SESSION["Rollnumber"] . '<br>';

?>
```

Output:

```
The Name of the student is :Ajay
The Roll number of the student is :11
```