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The University shall primarily provide advanced instruction and professional training in the arts, philosophy, social sciences, agriculture and fishery, forestry, science and technology engineering, education, law and other related fields. It shall also undertake research and extension services and provide progressive leadership in its areas of specialization.

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BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

WD 101 - WEB DEVELOPMENT & APPLICATION

Sonny Boy R. Ellema, Jr.

College of Arts & Sciences

Unit 6
PHP Forms

6.0 Learning Outcomes

After completing this chapter, you will be able to:

a. Describe how to use Form Handling in PHP
b. Create a form that can validate data before submitted to the server.
c. Create a complete form

6.1 Introduction

Form in PHP is similar to the forms that are built using HTML except the syntax used. In PHP, forms use the GET and POST method to print or retrieve the data entered by the user. When the user enters all the details required in the form and submits the form using the submit button the form is then further sent for processing and the action is performed on the basis of whatever is mentioned in the action function. The form is then sent for further processing using GET or POST methods whichever is mentioned while designing the form.

6.2 PHP Form Handling

PHP - Form Introduction

Dynamic Websites

The Websites provide the functionalities that can use to store, update, retrieve, and delete the data in a database.

What is the Form?

A Document that containing black fields, that the user can fill the data or user can select the data.Casually the data will store in the data base

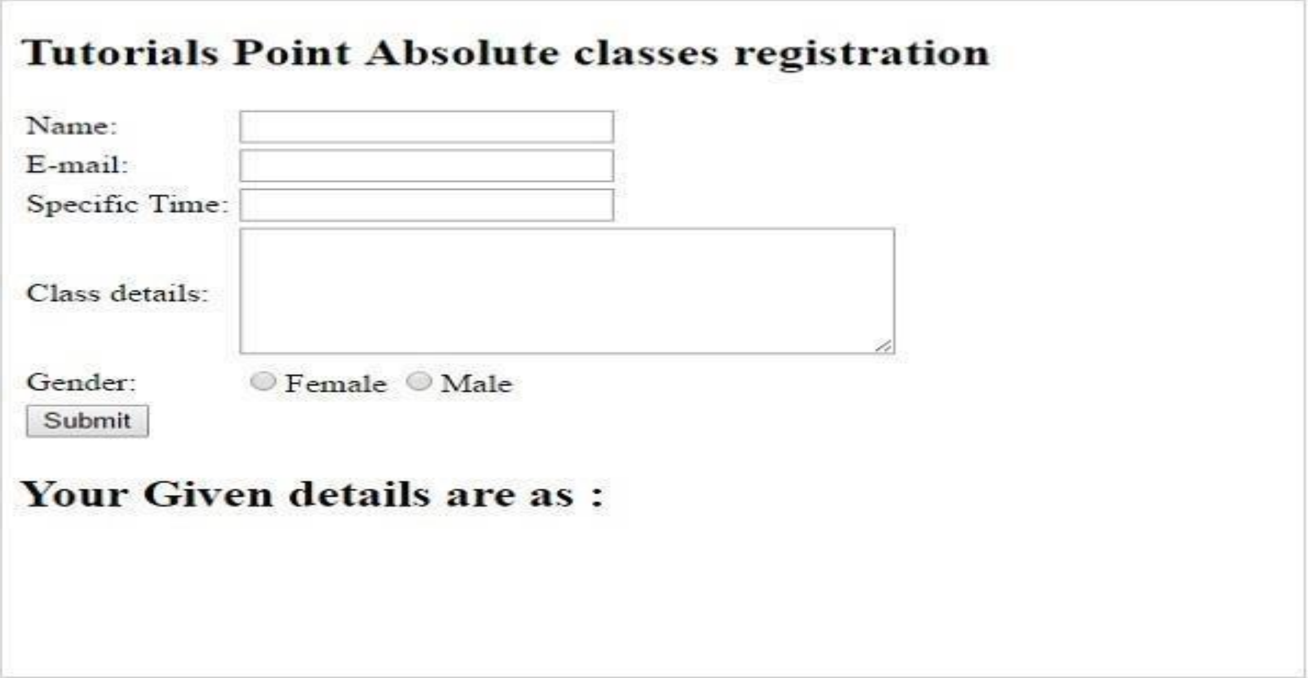
Example

Below example shows the form with some specific actions by using post method.

```
<html>


  <head>
    <title>PHP Form Validation</title>
  </head>

  <body>
    <?php

      // define variables and set to empty values
      $name = $email = $gender = $comment = $website = "";

      if ($_SERVER["REQUEST_METHOD"] == "POST") {
         $name = test_input($_POST["name"]);
         $email = test_input($_POST["email"]);
         $website = test_input($_POST["website"]);
         $comment = test_input($_POST["comment"]);
         $gender = test_input($_POST["gender"]);
      }
      
      function test_input($data) {
         $data = trim($data);
         $data = stripslashes($data);
         $data = htmlspecialchars($data);
         return $data;
      }
   ?>
   
   <h2>Tutorials Point Absolute classes registration</h2>
   
   <form method = "post" action = "/php/php_form_introduction.htm">
      <table>
         <tr>
            <td>Name:</td>
            <td><input type = "text" name = "name"></td>
         </tr>
         
         <tr>
            <td>E-mail:</td>
            <td><input type = "text" name = "email"></td>
         </tr>
         
         <tr>
            <td>Specific Time:</td>
            <td><input type = "text" name = "website"></td>
         </tr>
         
         <tr>
            <td>Class details:</td>
            <td><textarea name = "comment" rows = "5" cols = "40"></textarea></td>
         </tr>
         
         <tr>
            <td>Gender:</td>
            <td>
               <input type = "radio" name = "gender" value = "female">Female
               <input type = "radio" name = "gender" value = "male">Male
            </td>
         </tr>
```

```
            <tr>
              <td>
                 <input type = "submit" name = "submit" value = "Submit">
              </td>
            </tr>
         </table>
      </form>

      <?php
        echo "<h2>Your Given details are as:</h2>";
        echo $name;
         echo "<br>";

         echo $email;
         echo "<br>";

         echo $website;
         echo "<br>";

         echo $comment;
         echo "<br>";

         echo $gender;
      ?>

   </body>
</html>
```

It will produce the following result −



Tutorials Point Absolute classes registration

Name:

E-mail:

Specific Time:

Class details:

Gender: ○ Female ○ Male

Your Given details are as :

6.3. PHP Form Validation

PHP - Validation Example

Required field will check whether the field is filled or not in the proper way. Most of cases we will use the * symbol for required field.

What is Validation ?

Validation means check the input submitted by the user. There are two types of validation are available in PHP. They are as follows −

- **Client-Side Validation** − Validation is performed on the client machine web browsers.
- **Server Side Validation** − After submitted by data, The data has sent to a server and perform validation checks in server machine.

Some of Validation rules for field

Field	Validation Rules
Name	Should required letters and white-spaces
Email	Should required @ and .
Website	Should required a valid URL
Radio	Must be selectable at least once
Check Box	Must be checkable at least once
Drop Down menu	Must be selectable at least once

Valid URL

Below code shows validation of URL

```
$website = input($_POST["site"]);

if (!preg_match("/\b(?:(?:https?|ftp):\/\/|www\.)[-a-z0-9+&@#\/%?=~_|!:,.;]*[-a-
z09+&@#\/%=~_|]/i",$website)) {
  $websiteErr = "Invalid URL";
}
```

Above syntax will verify whether a given URL is valid or not. It should allow some keywords as https, ftp, www, a-z, 0-9,..etc..

Valid Email

Below code shows validation of Email address

```
$email = input($_POST["email"]);

if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
  $emailErr = "Invalid format and please re-enter valid email";
}
```

Above syntax will verify whether given Email address is well-formed or not. If it is not, it will show an error message.

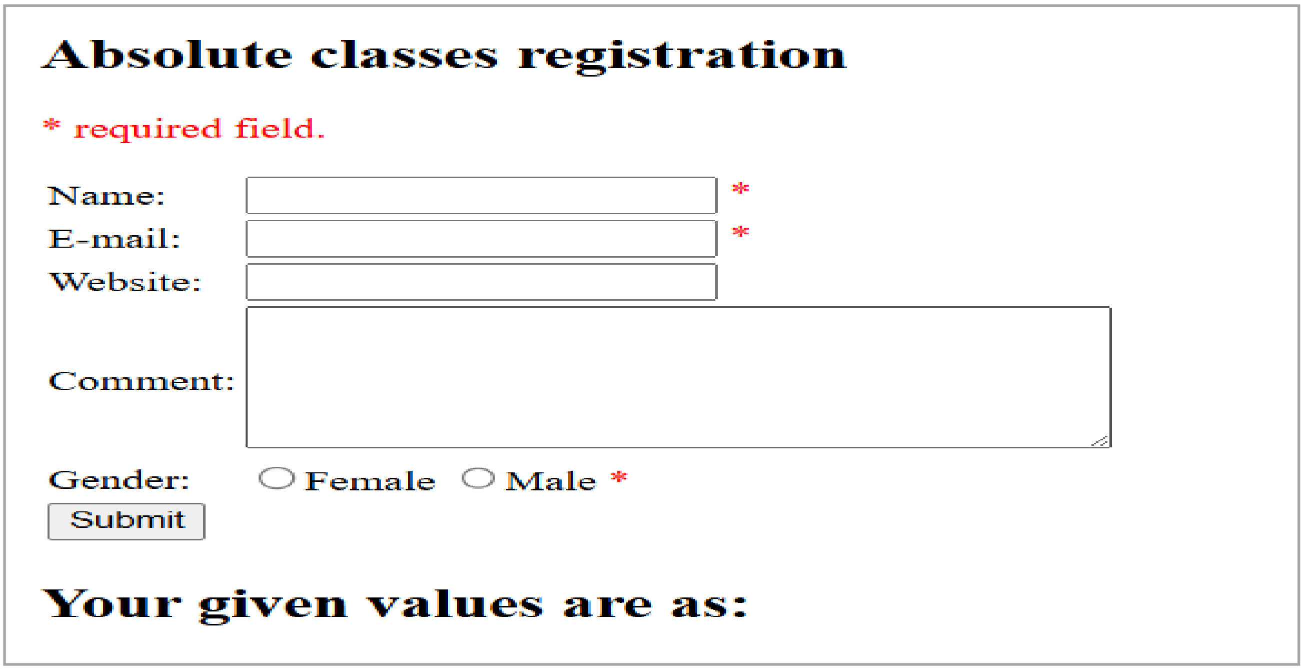
Example

Example below shows the form with required field validation

```
<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"]);
        }

        if (empty($_POST["email"])) {
                $emailErr = "Email is required";
        }else {
          $email = test_input($_POST["email"]);
          // check if e-mail address is well-formed
          if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
                $emailErr = "Invalid email format";
          }
        }

        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";
       }else{
         $gender = test_input($_POST["gender"]);
       }
     }

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

   <h2>Absolute classes registration</h2>

   <p><span class = "error">* required field.</span></p>

   <form method = "post" action = "<?php
     echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
     <table>
       <tr>

         <td>Name:</td>
         <td><input type = "text" name = "name">
           <span class = "error">* <?php echo $nameErr;?></span>
         </td>
       </tr>

       <tr>
         <td>E-mail: </td>
         <td><input type = "text" name = "email">
           <span class = "error">* <?php echo $emailErr;?></span>
         </td>
       </tr>

       <tr>
         <td>Website:</td>
         <td> <input type = "text" name = "website">
           <span class = "error"><?php echo $websiteErr;?></span>
         </td>
       </tr>
```

```
        <tr>
          <td>Comment:</td>
          <td> <textarea name = "comment" rows = "5" cols = "40"></textarea></td>
        </tr>

        <tr>
          <td>Gender:</td>
          <td>
            <input type = "radio" name = "gender" value = "female">Female
            <input type = "radio" name = "gender" value = "male">Male
            <span class = "error">* <?php echo $genderErr;?></span>
          </td>
        </tr>

        <td>
          <input type = "submit" name = "submit" value = "Submit">
        </td>

      </table>
    </form>

    <?php
      echo "<h2>Your given values are as:</h2>";
      echo $name;
      echo "<br>";

      echo $email;
      echo "<br>";

      echo $website;
      echo "<br>";

      echo $comment;
      echo "<br>";

      echo $gender;
    ?>

  </body>
</html>
```

It will produce the following result –



Absolute classes registration

* required field.

Name: ________ *

E-mail: ________ *

Website: ________

Comment:

Gender: ○ Female ○ Male *

Submit

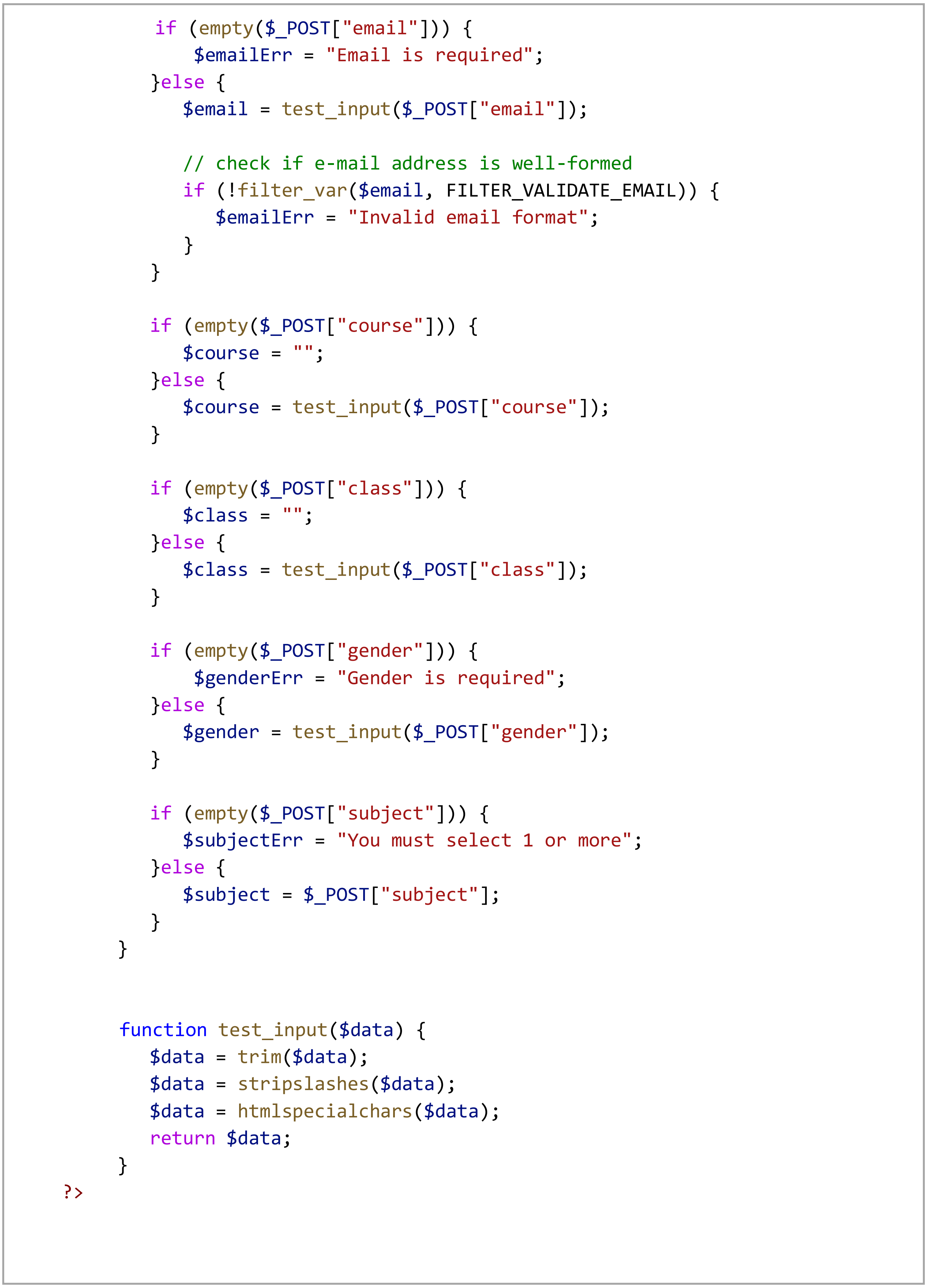
Your given values are as:

6.4. PHP - Complete Form

This page explains about time real-time form with actions. Below example will take input fields as text, radio button, drop down menu, and checked box.

Example

```
<html>
<head>
    <style>
    .error {
        color: #FF0000;
    }
    </style>
</head>
<body>
    <?php
         // define variables and set to empty values
         $nameErr = $emailErr = $genderErr = $websiteErr = "";
         $name = $email = $gender = $class = $course = $subject = "";

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

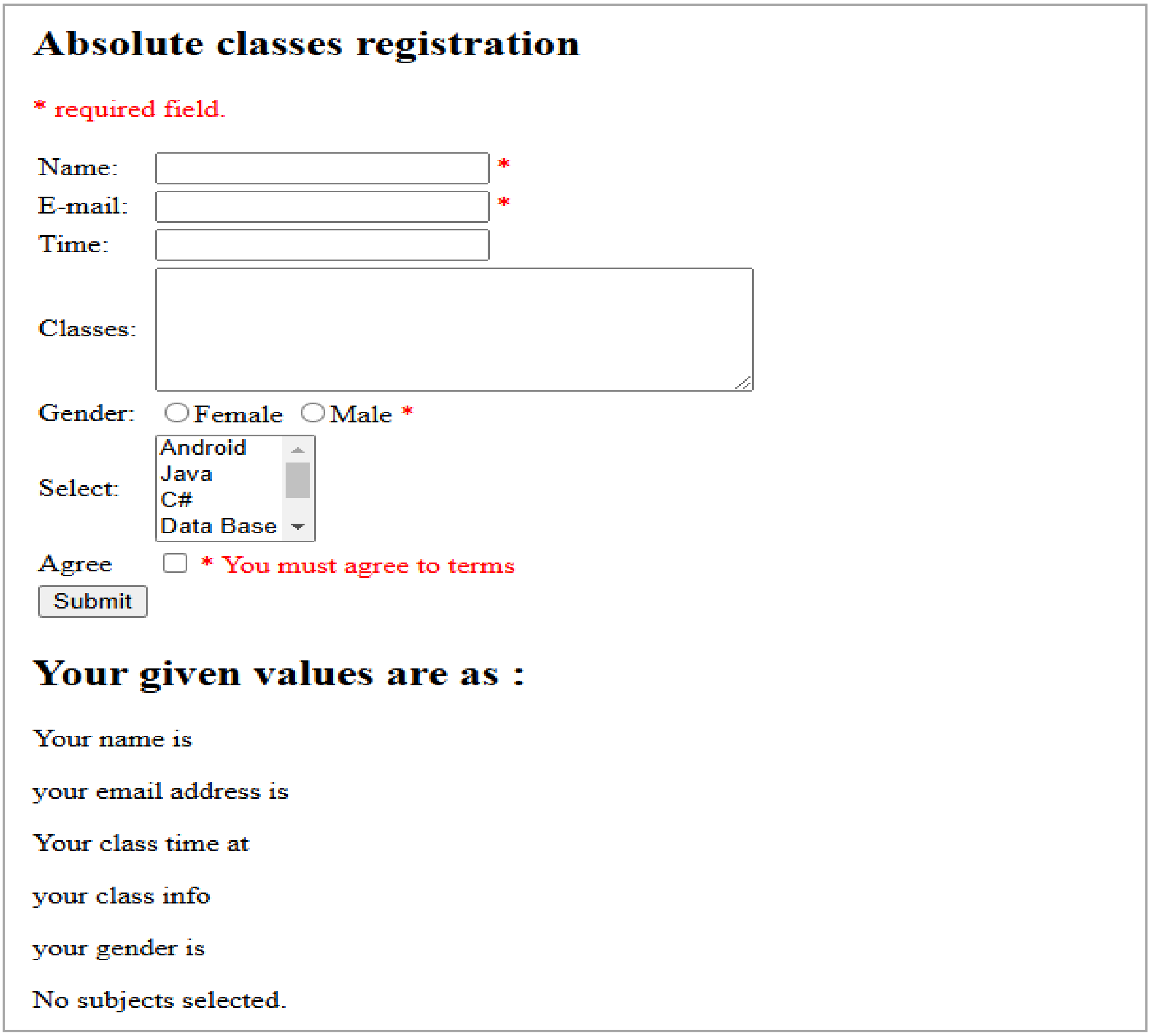


```
        if (empty($_POST["email"])) {
            $emailErr = "Email is required";
        }else {
           $email = test_input($_POST["email"]);

           // check if e-mail address is well-formed
           if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
              $emailErr = "Invalid email format";
           }
        }

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

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

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

        if (empty($_POST["subject"])) {
           $subjectErr = "You must select 1 or more";
        }else {
           $subject = $_POST["subject"];
        }
     }


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

```
<h2>Absolute classes registration</h2>

<p>
   <span class="error">* required field.</span>
</p>
    <form method="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
        <table>
            <tr>
                <td>Name:</td>
                <td><input type="text" name="name">
                    <span class="error">* <?php echo $nameErr;?></span>
                </td>
            </tr>

            <tr>
                <td>E-mail: </td>
                <td><input type="text" name="email">
                    <span class="error">* <?php echo $emailErr;?></span>
                </td>
            </tr>

            <tr>
                <td>Time:</td>
                <td> <input type="text" name="course">
                    <span class="error"><?php echo $websiteErr;?></span>
                </td>
            </tr>

             <tr>
                <td>Classes:</td>
                <td> <textarea name="class" rows="5" cols="40"></textarea></td>
            </tr>

            <tr>
                <td>Gender:</td>
                <td>
                    <input type="radio" name="gender" value="female">Female
                    <input type="radio" name="gender" value="male">Male
                    <span class="error">* <?php echo $genderErr;?></span>
                </td>
            </tr>
    <tr>
      <td>Select:</td>
      <td>
        <select name="subject[]" size="4" multiple>
          <option value="Android">Android</option>
          <option value="Java">Java</option>
          <option value="C#">C#</option>
          <option value="Data Base">Data Base</option>
          <option value="Hadoop">Hadoop</option>
          <option value="VB script">VB script</option>
        </select>
      </td>
    </tr>

    <tr>
      <td>Agree</td>
      <td>
        <input type="checkbox" name="checked" value="1">
        <?php if(!isset($_POST['checked'])){ ?>
        <span class="error">*
          <?php echo "You must agree to terms";?>
        </span>
        <?php } ?>
      </td>
    </tr>

    <tr>
      <td>
        <input type="submit" name="submit" value="Submit">
      </td>
    </tr>

  </table>
</form>


<?php
  echo "<h2>Your given values are as :</h2>";
  echo ("<p>Your name is $name</p>");
  echo ("<p> your email address is $email</p>");
  echo ("<p>Your class time at $course</p>");
  echo ("<p>your class info $class </p>");
  echo ("<p>your gender is $gender</p>");
```

```
        if (!empty($subject)) {
            echo "<ul>";
            foreach ($subject as $sub) {
                echo "<li>$sub</li>";
            }
            echo "</ul>";
        } else {
            echo "<p>No subjects selected.</p>";
        }
    ?>

</body>
</html>
```

It will produce the following result −



Absolute classes registration

* required field.

Name:		*
E-mail:		*
Time:		
Classes:		
Gender:	○ Female ○ Male	*
Select:	Android Java C# Data Base	
Agree	□	* You must agree to terms

Submit

Your given values are as :

Your name is

your email address is

Your class time at

your class info

your gender is

No subjects selected.

6.5 References

W3Schools HTML5 (http://www.w3schools.com/)

W3Schools CSS3 (http://www.w3schools.com/)

W3Schools PHP (http://www.w3schools.com/)

Ian Lunn. CSS3 Foundations, A John Wiley and Sons, Ltd, Publication 2013

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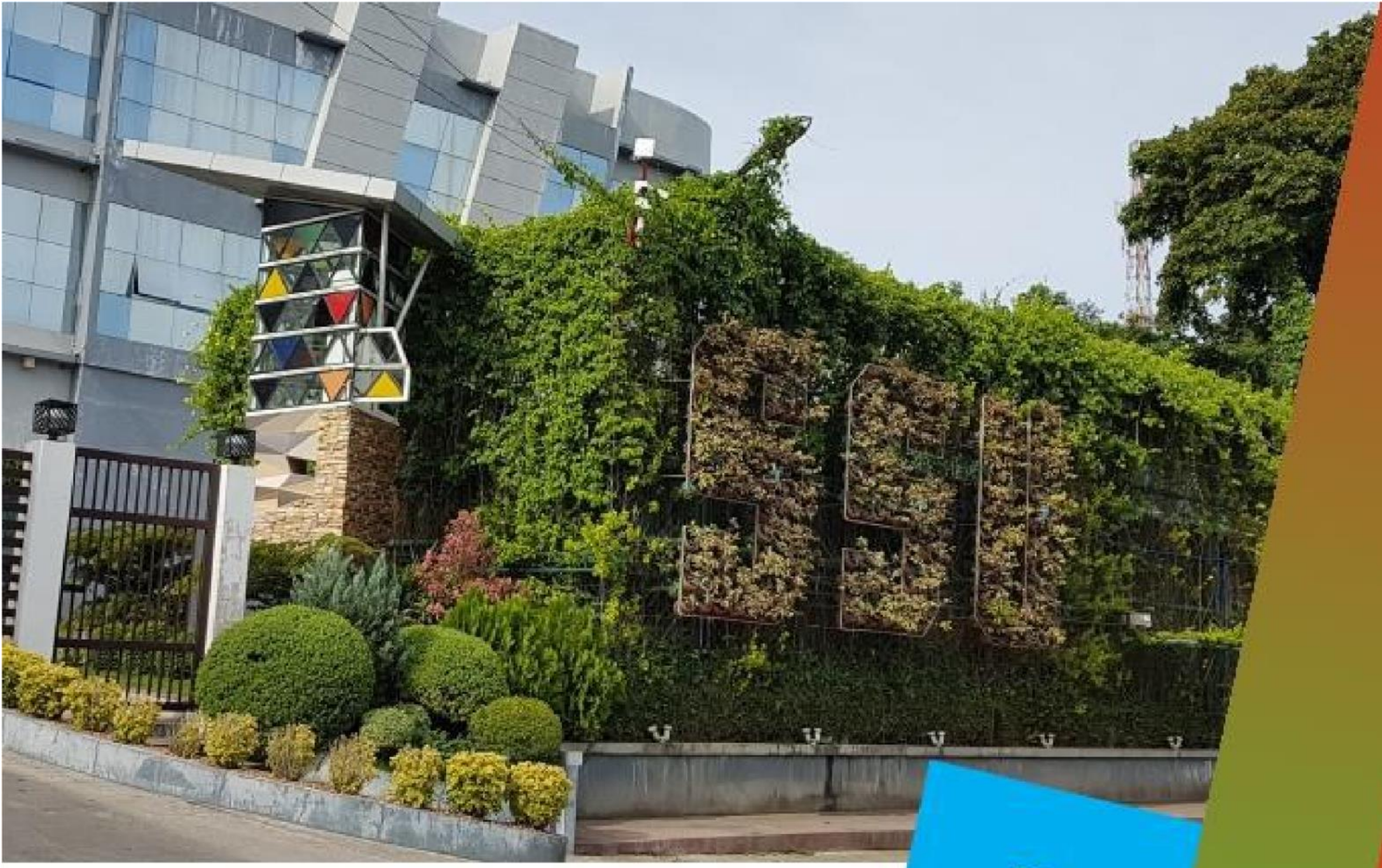
Learning web design : a beginner's guide to HTML, CSS, Javascript, and web graphics by Niederst Robbins, Jennifer, Ltd, Publication 2014

Tutorialspoint (https://www.tutorialspoint.com/index.htm)

6.6 Acknowledgement

All the figures and information presented in this module were taken from the references enumerated above.



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