DEPARTMENT OF COMPUTER SCIENCE
RAJAGIRI COLLEGE OF SOCIAL SCIENCES
(Autonomous)

MASTER OF COMPUTER APPLICATIONS

WEB TECHNOLOGY LAB
MCA 206
LAB RECORD

NAME : **SUDARSHAN R PRABHU**

SEMESTER : **SECOND**

REGISTER NO :

DEPARTMENT OF COMPUTER SCIENCE
RAJAGIRI COLLEGE OF SOCIAL SCIENCES
(Autonomous)

MASTER OF COMPUTER APPLICATIONS
CERTIFICATE

NAME   **:**   **SUDARSHAN R PRABHU**

SEMESTER   **:**   **SECOND**

REGISTER NO   **:**

Certified that this is a bonafide record of work done by the student in the Software Laboratory of Rajagiri Department of Computer Science, Kalamassery.

Fr. Angelo Baby   Dr. Bindiya M Varghese
Faculty in Charge   Dean, Computer Science

Internal Examiner   External Examiner

Place : Kalamassery
Date   :

Table of Contents

1. HTML Example Webpage to show various HTML tags and implement CSS and JavaScript

```
<!DOCTYPE html>
<!--HTML,CSS,JavaScript Example-->
<html lang="en-US">
  <head>
    <style>
      body {background-color: powderblue;}
      h1 {color: blue;}
      p {color:seagreen;}
    </style>
    <script>
      function myFunction()
      {
        document.getElementById("para").innerHTML="Changed using JavaScript!";
      }
    </script>
  </head>
  <body>
    <h1>HTML Example</h1>
    <img src="C:\Users\sudar\Pictures\logo.png" alt="logo">
    <br>
    <a href="https://www.rajagiri.edu">Website</a>
    <p>An HTML Webpage to show various HTML Tags and and Introduction to CSS and
JavaScript</p>
    <hr>
    <h2 style="font-family:Impact, Haettenschweiler, 'Arial Narrow Bold', sans-serif;">Heading
2 Tag</h2>
    <h1>Heading 1 Tag</h1>
    <p style="font-size: 160%; font-family: Cambria, Cochin, Georgia, Times, 'Times New
Roman', serif;" title="Tutor:Diljith">This is a new paragraph</p>
    <p>Some content inside paragraph <q>quotations start here</q></p>
    <p id="para">Original</p>
    <button type="button" onclick="myFunction()">Click to Change above Text using
JavaScript</button>
    <address>Created by Sudarshan R Prabhu<br> visit us at <br> www.rajagiri.edu</address>
  </body>
</html>
```

HTML Example

Website

An HTML Webpage to show various HTML Tags and and Introduction to CSS and JavaScript

Heading 2 Tag

Heading 1 Tag

This is a new paragraph

Some content inside paragraph "quotations start here"

Original

Click to Change above Text using JavaScript

Created by Sudarshan R Prabhu
visit us at
www.rajagiri.edu

HTML Example

[Website](#)

An HTML Webpage to show various HTML Tags and and Introduction to CSS and JavaScript

---

Heading 2 Tag

Heading 1 Tag

This is a new paragraph

Some content inside paragraph "quotations start here"

Changed using JavaScript!

[Click to Change above Text using JavaScript]

Created by Sudarshan R Prabhu
visit us at
www.rajagiri.edu

2. HTML Webpage to Implement Bookmark

```html
<!DOCTYPE html>
<html>
<body>
<h1>THIS NOVEL CONTAINS MANY CHAPTERS</h1>
<p><a href="#C10">Jump to Chapter 10</a></p>
<h2>Chapter 1</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 2</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 3</h2>
<p>This chapter explains ba bla bla</p>
<h2 id="C4">Chapter 4</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 5</h2>
<p>This chapter explains ba bla bla</p>
<h2 id="c6">Chapter 6</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 7</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 8</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 9</h2>
<p>This chapter explains ba bla bla</p>
<h2 id="C10">Chapter 10</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 11</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 12</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 13</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 14</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 15</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 16</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 17</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 18</h2>
<p>This chapter explains ba bla bla</p>
```

```
<h2>Chapter 19</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 20</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 21</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 22</h2>
<p>This chapter explains ba bla bla</p>
<h2>Chapter 23</h2>
<p>This chapter explains ba bla bla</p>
</body>
</html>
```

File | D:/Sudpool/Files/RCSS/SEM2/Web%20Tech/WTLRecordGit_SudarshanRPrabhu/HTML/Program2.html

THIS NOVEL CONTAINS MANY CHAPTERS

Jump to Chapter 10

Chapter 1

This chapter explains ba bla bla

Chapter 2

This chapter explains ba bla bla

Chapter 3

This chapter explains ba bla bla

Chapter 4

This chapter explains ba bla bla

Chapter 5

This chapter explains ba bla bla

Chapter 6

This chapter explains ba bla bla

Chapter 7

This chapter explains ba bla bla

Chapter 8

Chapter 10

This chapter explains ba bla bla

Chapter 11

This chapter explains ba bla bla

Chapter 12

This chapter explains ba bla bla

Chapter 13

This chapter explains ba bla bla

Chapter 14

This chapter explains ba bla bla

Chapter 15

This chapter explains ba bla bla

Chapter 16

This chapter explains ba bla bla

Chapter 17

This chapter explains ba bla bla

Chapter 18

This chapter explains ba bla bla

3. HTML Webpage to change CSS using JavaScript

```html
<!DOCTYPE html>
<html>
<body>
<h1>Changing CSS using JavaScript</h1>
<h2 id="demo">JavaScript can change the style of an HTML element.</h2>
<button type="button" onclick="document.getElementById('demo').style.color='blue'">Change Above Text Color to Blue</button>
</body>
</html>
```

4. HTML Webpage to create a Table

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
        body{font-size: larger;}
        table,td{border: 1px solid black;}
    </style>
  </head>
  <body>
    <h1>Table in HTML(With Border)</h1>
    <table>
      <tr>
      <th>1st column</th>
      <th>2nd column</th>
      </tr>
      <tr>
      <td>Row 1, column 1</td>
      <td>Row 1, column 2</td>
      </tr>
      <td>Row 2, column 1</td>
      <td>Row 2, column 2</td>
    </table>
  </body>
</html>
```

← → C ⌂ ① File | D:/Sudpool/Files/RCSS/SEM2/Web%20Tech/WTLRecordGit_SudarshanRPrabhu/HTML/Program4.html

Table in HTML(With Border)

1st column	2nd column
Row 1, column 1	Row 1, column 2
Row 2, column 1	Row 2, column 2

5. HTML Webpage to Print Current Date and Time using JavaScript

```html
<!DOCTYPE html>
<html>
<body>
<p>Creating a new Date Object with current Date and Time using JavaScript</p>
<h1 id="demo"></h1>
<script>
const d = new Date();
document.getElementById("demo").innerHTML = d;
</script>
</body>
</html>
```

← → C ⟳ ⌂ ⓘ File | D:/Sudpool/Files/RCSS/SEM2/Web%20Tech/WTLRecordGit_SudarshanRPrabhu/HTML/Program5DateJS.html

Creating a new Date Object with current Date and Time using JavaScript

Sun Mar 06 2022 22:09:19 GMT+0530 (India Standard Time)

6. HTML Webpage to Implement Countdown Timer

```html
<!DOCTYPE html>
<html>
  <body>
    <h1 id="demo"></h1>

    <script>
    var countDownDate = new Date("Jan 5, 2024 15:37:25").getTime();
    var x = setInterval(function() {
    var now = new Date().getTime();
    var distance = countDownDate - now;
    var days = Math.floor(distance / (1000 * 60 * 60 * 24));
    var hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60));
    var minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
    var seconds = Math.floor((distance % (1000 * 60)) / 1000);
    document.getElementById("demo").innerHTML = days + "d " + hours + "h " + minutes + "m " + seconds + "s ";
    if (distance < 0) {
       clearInterval(x);
       document.getElementById("demo").innerHTML = "EXPIRED";
    }
  }, 1000);
</script>
  </body>
</html>
```

File | D:/Sudpool/Files/RCSS/SEM2/Web%20Tech/WTLRecordGit_SudarshanRPrabhu/HTML/Program6Timer.html

669d 16h 47m 56s

7. HTML Webpage to create a Search Bar

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
      .searchbox {
      float: left;
      }
      input[type=text] {
      padding:0 6px;
      margin-top: 8px;
      font-size: 17px;
      border: none;
      }
      .searchbox button {
      padding: 8px;
      margin-top: 10px;
      margin-left: 10px;
      background: orange;
      font-size: 20px;
      border: none;
      cursor: pointer;
      }
      .searchbox button:hover {
      background: blue;
      }
    </style>
  </head>
  <body>
    <div class="searchbox">
    <form>
      <input type="text" placeholder=" Search...." name="search">
      <button type="submit">Submit</button>
    </form>
    </div>
  </body>
</html>
```
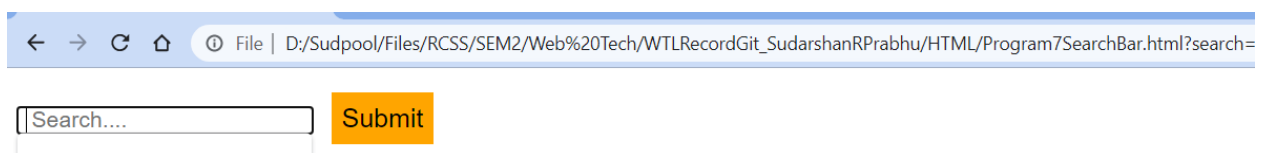
8. HTML Webpage to Create a Navigation Bar using CSS

```html
<!DOCTYPE html>
<html>
  <head>
    <style>
      .topnav {
        background-color: #333;
        overflow: hidden;
      }
      .topnav a {
        float: left;
        color: #f2f2f2;
        text-align: center;
        padding: 14px 16px;
        text-decoration: none;
        font-size: 17px;
      }
      .topnav a:hover {
        background-color: #ddd;
        color: black;
      }
      .topnav a.active {
        background-color: #04AA6D;
        color: white;
      }
    </style>
  </head>
  <body>
    <div class="topnav">
      <a class="active" href="#home">Home</a>
      <a href="#news">News</a>
      <a href="#contact">Contact</a>
      <a href="#about">About</a>
    </div>
  </body>
</html>
```

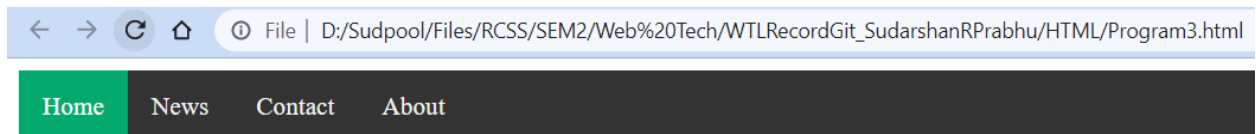← → C ⌂ ⓘ File | D:/Sudpool/Files/RCSS/SEM2/Web%20Tech/WTLRecordGit_SudarshanRPrabhu/HTML/Program3.html

Home   News   Contact   About

9. HTML Webpage to create a Login Form and Validate using JavaScript

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {background-color:white;font-size: 150%;}
      h1 {font-family: cambria; color:seagreen;}
      h2 {font-family: consolas; color:dimgrey;}
      a {font-family: times new roman; font-size: medium;}
      a:link{color: green;background-color: transparent;text-decoration: none;}
      a:visited{color: blue;background-color: transparent;text-decoration: none;}
      a:active{color: red; background-color: transparent; text-decoration: none;}
      a:hover{color: white;background-color: transparent;text-decoration: underline;}
      form {background-color:whitesmoke; font-family: courier new;}
      input {height: 25px; width: 300px; font-size:medium; font-family: courier new;}
      footer {background-color:lightgreen; font-size: small; margin-top: 100px;}
      button {height: 25px; width: 300px; font-size:medium; font-family: courier new;}
      button:hover {background-color: seagreen; color: white;}

      .loginf {
        height: 375px;
        width: 500px;
      }
    </style>
    <script>
      function validateL()
      {
      var flag = 0;
      var userL = document.getElementById("stuidtxt");
      var pwd = document.getElementById("pswrd");
      document.getElementById("userLerror").style.display="none";
      document.getElementById("pwdLerror").style.display="none";
      if(userL.value.length == 0)
        {
          flag=1;
          document.getElementById("userLerror").style.display="inline";
        }
      if(pwd.value.length == 0)
        {
          flag=1;
          document.getElementById("pwdLerror").style.display="inline";
```

```
        }
        if(flag==0)
        {
            alert("Feature Not Available")
        }
    }
    </script>
  </head>
  <body>
    <h1>
      <img src="logo.png">
      Computer Science Department
    </h1>
    <h2>Student Login</h2>
    <hr>
    <form class="loginf" name="loginform">
      <br>
      <b>Login :</b><br><br>
      <input type="text" name="stuidtxt" id="stuidtxt" placeholder="Student ID"><label
id="userLerror" style="display: none; color: red; font-size: medium;">Cannot be
Blank!</label><br><br>
      <input type="password" name="pswrd" id="pswrd" placeholder="Password"><label
id="pwdLerror" style="display: none; color: red;font-size: medium;">Cannot be
Blank!</label><br><br>
      <a href="#fpass" onclick="notAvail()">Forgot Password?</a><br><br>
      <button type="button" name="login" id="login"
onclick="validateL()">Login</button><br><br>
      <a href="register.html">Not Yet Registered?</a>
    </form>
    <footer>
      <hr>
      <address>
        Rajagiri College of Social Sciences (Autonomous),<br>
        Rajagiri P.O, Kalamassery, Cochin - 683 104,<br>
        Kerala, India.<br>
        <a href="https://rajagiri.edu/">Click here</a> for Official Website.
      </address>
    </footer>
  </body>
</html>
```

RCSS Computer Science Department

Student Login

Login :

Student ID	Cannot be Blank!
Password	Cannot be Blank!

Forgot Password?

Login

Not Yet Registered?

Rajagiri College of Social Sciences (Autonomous),
Rajagiri P.O, Kalamassery, Cochin - 683 104,
Kerala, India.

10.   HTML Webpage to create a Registration Form and Validate using JavaScript

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {background-color:white;font-size: 150%;}
      h1 {font-family: cambria; color:seagreen;}
      h2 {font-family: consolas; color:dimgrey;}
      a {font-family: times new roman; font-size: medium;}
      a:link{color: green;background-color: transparent;text-decoration: none;}
      a:visited{color: blue;background-color: transparent;text-decoration: none;}
      a:active{color: red; background-color: transparent; text-decoration: none;}
      a:hover{color: white;background-color: transparent;text-decoration: underline;}
      form {background-color:whitesmoke; font-family: courier new;}
      input {height: 25px; width: 300px; font-size:medium; font-family: courier new;}
      footer {background-color:lightgreen; font-size: small; margin-top: 100px;}
      button {height: 25px; width: 300px; font-size:medium; font-family: courier new;}
      button:hover {background-color: seagreen; color: white;}

      .regisf {
        font-size: medium;
        height: 575px;
      }
      .radiob {
        font-size:medium;
        font-family: courier new;
        width:auto;
      }
    </style>
    <script>
      function validateR()
      {
        var flag = 0;
        var userR = document.getElementById("stuidtxtR");
        var pwdR = document.getElementById("pswrdR");
        var cpwdR = document.getElementById("cpswrdR");
        var fn = document.getElementById("fnametxt");
        var ln = document.getElementById("lnametxt");
        var em = document.getElementById("emailtxt");
        var db = document.getElementById("dob");
```

```javascript
document.getElementById("stuiderror").style.display="none";
document.getElementById("pwdRerror").style.display="none";
document.getElementById("cpwdRerror").style.display="none";
document.getElementById("fnameerror").style.display="none";
document.getElementById("lnameerror").style.display="none";
document.getElementById("emailerror").style.display="none";
document.getElementById("pwdmatch").style.display="none";
document.getElementById("invmail").style.display="none";
document.getElementById("doberror").style.display="none";

if(userR.value.length == 0)
{
   flag=1;
   document.getElementById("stuiderror").style.display="inline";
}
if(pwdR.value.length == 0)
{
   flag=1;
   document.getElementById("pwdRerror").style.display="inline";
}
if(cpwdR.value.length == 0)
{
   flag=1;
   document.getElementById("cpwdRerror").style.display="inline";
}
if(fn.value.length == 0)
{
   flag=1;
   document.getElementById("fnameerror").style.display="inline";
}
if(ln.value.length == 0)
{
   flag=1;
   document.getElementById("lnameerror").style.display="inline";
}
if(em.value.length == 0)
{
   flag=1;
   document.getElementById("emailerror").style.display="inline";
}
if(pwdR.value != cpwdR.value)
{
   flag=1;
   document.getElementById("pwdmatch").style.display="inline";
```

```
          }
          if (!em.value.match(/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/))
          {
             flag=1;
             document.getElementById("invmail").style.display="inline";
          }
          if(db.value.length == 0)
          {
             flag=1;
             document.getElementById("doberror").style.display="inline";
          }
          if(flag==0)
          {
             alert("Feature Not Available")
          }
       }
    }
 </script>
</head>
<body>
   <h1>
      <img src="logo.png">
      Computer Science Department
   </h1>
   <h2>Registration</h2>
   <hr>
   <form class="regisf" name="regisform">
      <br>
      <a href="login.html">Already Registered?</a><br><br>
      <input type="text" id="stuidtxtR" name="stuidtxtR" placeholder="Student ID"><label
id="stuiderror" style="display: none; color: red;font-size: medium">Cannot be
Blank!</label><br><br>
      <input type="text" id="fnametxt" name="fnametxt" placeholder="First Name"><label
id="fnameerror" style="display: none;color: red;font-size: medium">Cannot be
Blank!</label><br><br>
      <input type="text" id="lnametxt" name="lnametxt" placeholder="Last Name"><label
id="lnameerror" style="display: none;color:red;font-size: medium">Cannot be
Blank!</label><br><br>
      <label for="dob">Date of Birth :</label><br><br>
      <input type="date" id="dob"><label id="doberror" style="display: none; color: red;font-
size: medium">Cannot be Blank!</label><br><br>
      <label>Gender : </label>
      <input type="radio" id="male" name="gender" value="male" class="radiob">
      <label for="male">Male</label>
      <input type="radio" id="female" name="gender" value="female" class="radiob">
```

```html
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other" class="radiob">
        <label for="other">Other</label><label id="generror" style="display: none; color:
red;font-size: medium">Cannot be Blank!</label><br><br>
        <label for="course">Course : </label><label id="courserror" style="display: none; color:
red;font-size: medium">Cannot be Blank!</label>
      <select name="course" id="course">
         <option disabled selected value>-</option>
         <option value="mca">Master of Computer Applications(MCA)</option>
         <option value="msccsda">MSc Computer Science(Data Analytics)</option>
      </select><br><br>
        <input type="text" id="emailtxt" name="emailtxt" placeholder="E-Mail"><label
id="emailerror" style="display: none; color: red;font-size: medium;">Cannot be
Blank!</label><label id="invmail" style="display: none; color: red;font-size: medium">Invalid
Email!</label><br><br>
        <input type="password" id="pswrdR" name="pswrdR" placeholder="Password"><label
id="pwdRerror" style="display: none; color: red;font-size: medium">Cannot be
Blank!</label><label id="pwdmatch" style="display: none; color: red;font-size: medium">Do
Not Match!</label><br><br>
        <input type="password" id="cpswrdR" name="cpswrdR" placeholder="Confirm
Password"><label id="cpwdRerror" style="display: none; color: red;font-size: medium">Cannot
be Blank!</label><br><br>
        <button name="register" id="register" type="button"
onclick="validateR()">Register</button>
     </form>
     <footer>
       <hr>
       <address>
          Rajagiri College of Social Sciences (Autonomous),<br>
          Rajagiri P.O, Kalamassery, Cochin - 683 104,<br>
          Kerala, India.<br>
          <a href="https://rajagiri.edu/">Click here</a> for Official Website.
       </address>
     </footer>
   </body>
</html>
```

Computer Science Department

Registration

Already Registered?

| Student ID | | Cannot be Blank! |

| First Name | | Cannot be Blank! |

| Last Name | | Cannot be Blank! |

Date of Birth :

| dd-----yyyy 📅 | Cannot be Blank! |

Gender : ○ Male ○ Female ○ Other

Course : [- ▾]

| E-Mail | | Cannot be Blank!Invalid Email! |

| Password | | Cannot be Blank! |

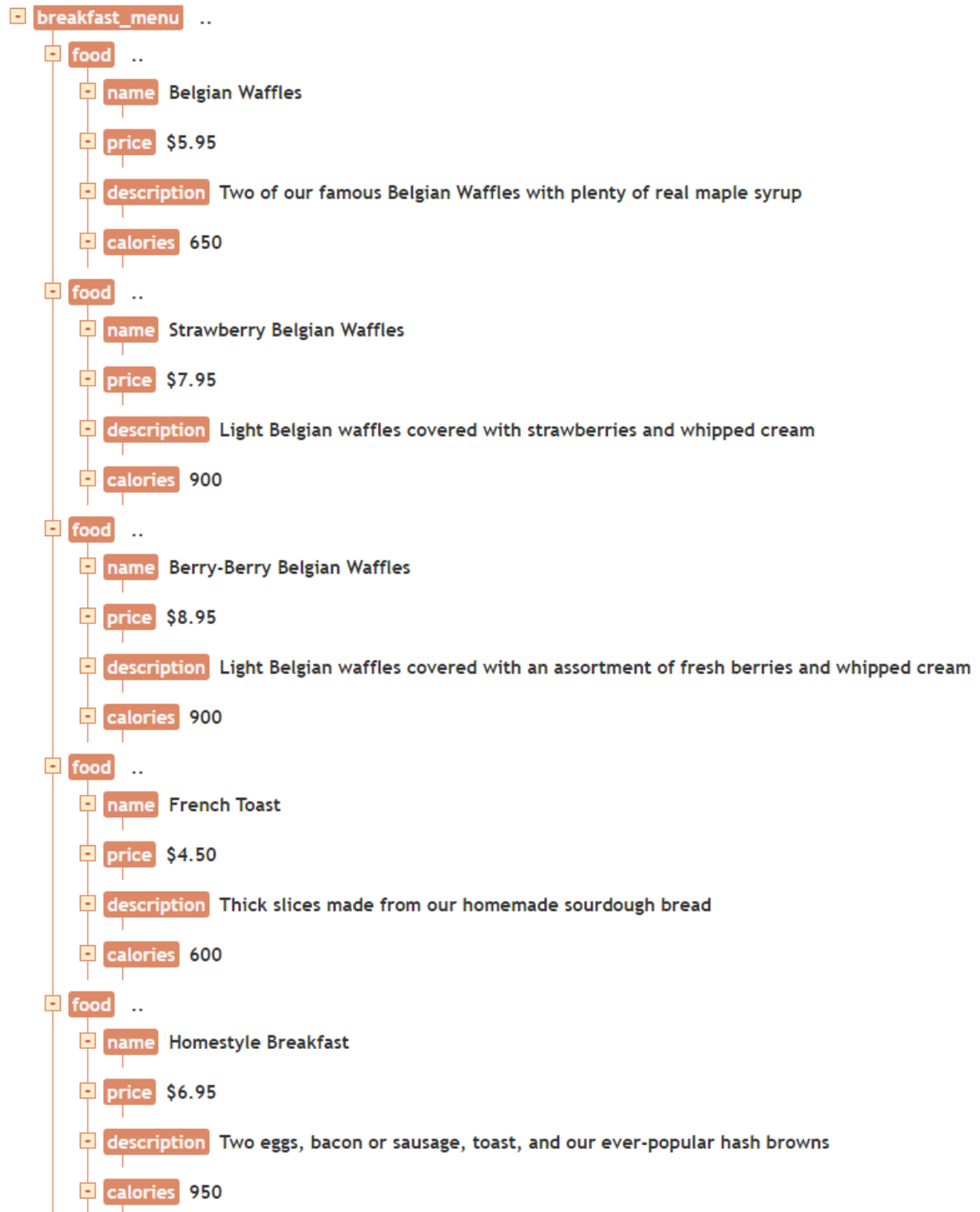| Confirm Password | | Cannot be Blank! |

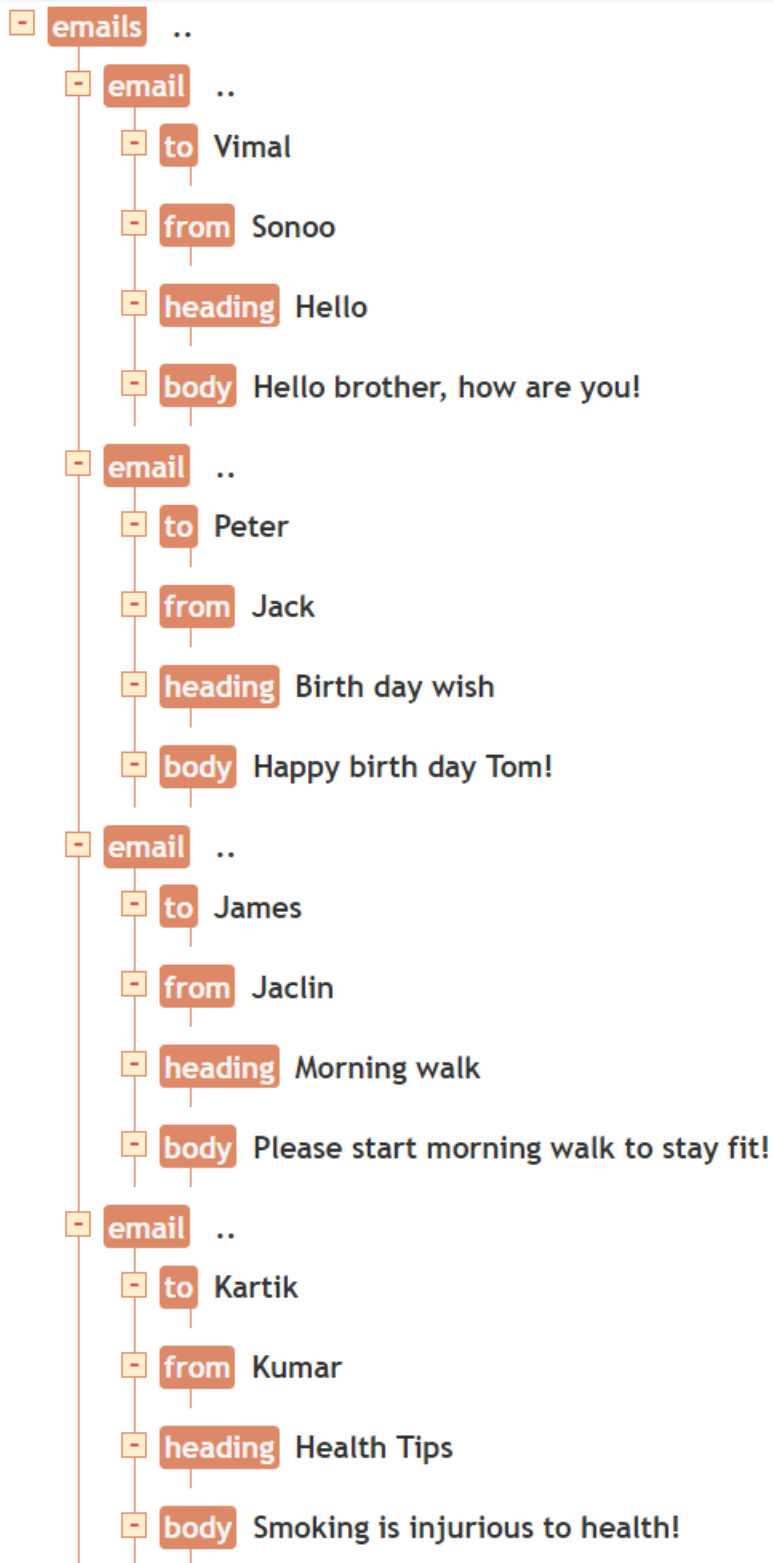| Register |

11. XML File for Hotel Menu

```xml
<breakfast_menu>
<food>
<name>Belgian Waffles</name>
<price>$5.95</price>
<description>Two of our famous Belgian Waffles with plenty of real maple syrup</description>
<calories>650</calories>
</food>
<food>
<name>Strawberry Belgian Waffles</name>
<price>$7.95</price>
<description>Light Belgian waffles covered with strawberries and whipped cream</description>
<calories>900</calories>
</food>
<food>
<name>Berry-Berry Belgian Waffles</name>
<price>$8.95</price>
<description>Light Belgian waffles covered with an assortment of fresh berries and whipped cream</description>
<calories>900</calories>
</food>
<food>
<name>French Toast</name>
<price>$4.50</price>
<description>Thick slices made from our homemade sourdough bread</description>
<calories>600</calories>
</food>
<food>
<name>Homestyle Breakfast</name>
<price>$6.95</price>
<description>Two eggs, bacon or sausage, toast, and our ever-popular hash browns</description>
<calories>950</calories>
</food>
</breakfast_menu>
```

- breakfast_menu ..
  - food ..
    - name Belgian Waffles
    - price $5.95
    - description Two of our famous Belgian Waffles with plenty of real maple syrup
    - calories 650
  - food ..
    - name Strawberry Belgian Waffles
    - price $7.95
    - description Light Belgian waffles covered with strawberries and whipped cream
    - calories 900
  - food ..
    - name Berry-Berry Belgian Waffles
    - price $8.95
    - description Light Belgian waffles covered with an assortment of fresh berries and whipped cream
    - calories 900
  - food ..
    - name French Toast
    - price $4.50
    - description Thick slices made from our homemade sourdough bread
    - calories 600
  - food ..
    - name Homestyle Breakfast
    - price $6.95
    - description Two eggs, bacon or sausage, toast, and our ever-popular hash browns
    - calories 950

12. XML File for EMails

```xml
<?xml version="1.0" encoding="UTF-8"?>
<emails>
<email>
 <to>Vimal</to>
 <from>Sonoo</from>
 <heading>Hello</heading>
 <body>Hello brother, how are you!</body>
</email>
<email>
 <to>Peter</to>
 <from>Jack</from>
 <heading>Birth day wish</heading>
 <body>Happy birth day Tom!</body>
</email>
<email>
 <to>James</to>
 <from>Jaclin</from>
 <heading>Morning walk</heading>
 <body>Please start morning walk to stay fit!</body>
</email>
<email>
 <to>Kartik</to>
 <from>Kumar</from>
 <heading>Health Tips</heading>
 <body>Smoking is injurious to health!</body>
</email>
</emails>
```
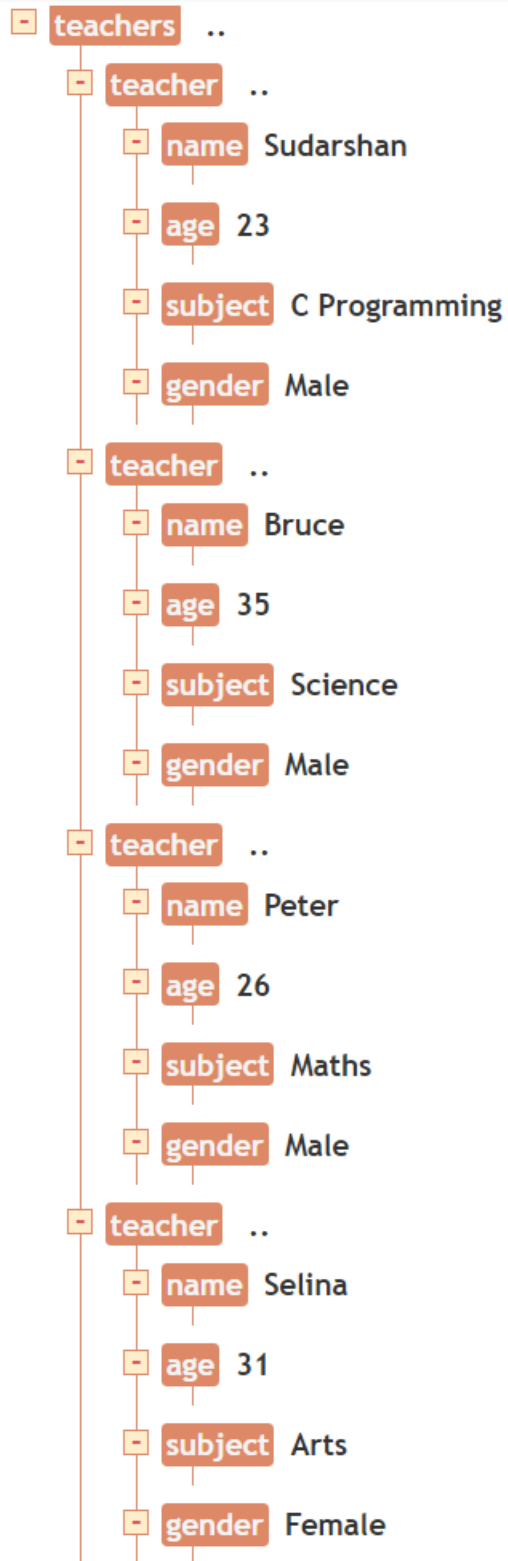
- emails ..
  - email ..
    - to Vimal
    - from Sonoo
    - heading Hello
    - body Hello brother, how are you!
  - email ..
    - to Peter
    - from Jack
    - heading Birth day wish
    - body Happy birth day Tom!
  - email ..
    - to James
    - from Jaclin
    - heading Morning walk
    - body Please start morning walk to stay fit!
  - email ..
    - to Kartik
    - from Kumar
    - heading Health Tips
    - body Smoking is injurious to health!

13. XML File for Teacher Info

```xml
<?xml version = "1.0" encoding = "UTF-8" ?>
<teachers>
 <teacher>
  <name>Sudarshan</name>
  <age>23</age>
  <subject>C Programming</subject>
  <gender>Male</gender>
 </teacher>
 <teacher>
  <name>Bruce</name>
  <age>35</age>
  <subject>Science</subject>
  <gender>Male</gender>
 </teacher>
 <teacher>
  <name>Peter</name>
  <age>26</age>
  <subject>Maths</subject>
  <gender>Male</gender>
 </teacher>
 <teacher>
  <name>Selina</name>
  <age>31</age>
  <subject>Arts</subject>
  <gender>Female</gender>
 </teacher>
</teachers>
```
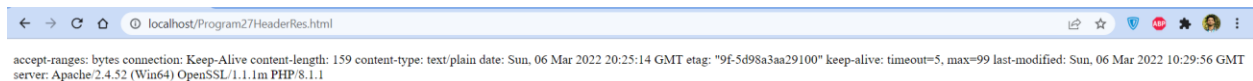
- teachers ..
  - teacher ..
    - name Sudarshan
    - age 23
    - subject C Programming
    - gender Male
  - teacher ..
    - name Bruce
    - age 35
    - subject Science
    - gender Male
  - teacher ..
    - name Peter
    - age 26
    - subject Maths
    - gender Male
  - teacher ..
    - name Selina
    - age 31
    - subject Arts
    - gender Female

14. HTML Webpage to Retrieve All Header Information of a File using AJAX

```html
<!DOCTYPE html>
<html>
<body>

<p id="demo"></p>

<script>
const xhttp = new XMLHttpRequest();
xhttp.onload = function() {
  document.getElementById("demo").innerHTML =
  this.getAllResponseHeaders();
}
xhttp.open("GET", "ajax_info.txt");
xhttp.send();
</script>

</body>
</html>
```


accept-ranges: bytes connection: Keep-Alive content-length: 159 content-type: text/plain date: Sun, 06 Mar 2022 20:25:14 GMT etag: "9f-5d98a3aa29100" keep-alive: timeout=5, max=99 last-modified: Sun, 06 Mar 2022 10:29:56 GMT server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.1

15. HTML Webpage to Retrieve Data from a Text File using AJAX

```html
<!DOCTYPE html>
<html>
<body>

<div id="demo">
<button type="button" onclick="loadDoc()">Change Content</button>
</div>

<script>
function loadDoc() {
  var xhttp = new XMLHttpRequest();
  xhttp.onreadystatechange = function() {
    if (this.readyState == 4 && this.status == 200) {
      document.getElementById("demo").innerHTML =
      this.responseText;
    }
  };
  xhttp.open("GET", "ajax_info.txt", true);
  xhttp.send();
}
</script>

</body>
</html>
```
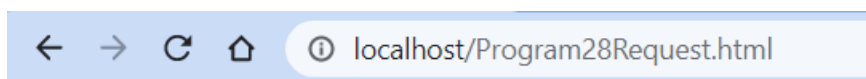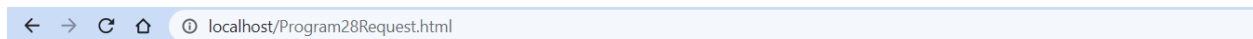

AJAX AJAX is not a programming language. AJAX is a technique for accessing web servers from a web page. AJAX stands for Asynchronous JavaScript And XML.
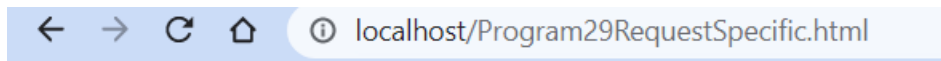
16. HTML Webpage to Retrieve Specific Header Info of a File using AJAX

```html
<!DOCTYPE html>
<html>
<body>

<p>Last modified: <span id="demo"></span></p>

<script>
const xhttp=new XMLHttpRequest();
xhttp.onload = function() {
  document.getElementById("demo").innerHTML =
  this.getResponseHeader("Last-Modified");
}
xhttp.open("GET", "ajax_info.txt");
xhttp.send();
</script>

</body>
</html>
```
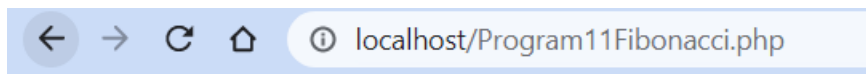

Last modified: Sun, 06 Mar 2022 10:29:56 GMT

17.   PHP Program to print Fibonacci Series

```php
<?php
$num = 0;
$n1 = 0;
$n2 = 1;
echo "<h3>Fibonacci Series </h3>";
echo "\n";
echo $n1.' '.$n2.' ';
while ($num < 10 )
{
   $n3 = $n2 + $n1;
   echo $n3.' ';
   $n1 = $n2;
   $n2 = $n3;
   $num = $num + 1;
}
?>
```
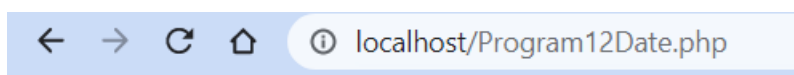
← → C ⌂ ⓘ localhost/Program11Fibonacci.php

Fibonacci Series

0 1 1 2 3 5 8 13 21 34 55 89

## 18.   PHP Program to print Current Date and Time

```php
<?php

echo "The date and time is :";

$myDate = date("d-m-y h:i:s");

echo $myDate;

?>
```


The date and time is :06-03-22 08:17:03

19.   PHP Program to Check if Palindrome

```php
<?php
function palindrome($n){
$number = $n;
$sum = 0;
while(floor($number)) {
$rem = $number % 10;
$sum = $sum * 10 + $rem;
$number = $number/10;
}
return $sum;
}
$input = 1235321;
$num = palindrome($input);
if($input==$num){
echo "$input is a Palindrome number";
} else {
echo "$input is not a Palindrome";
}
?>
```

← → C ⌂ ⓘ localhost/Program13Palindrome.php
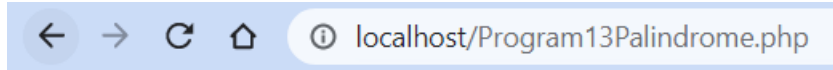
1235321 is a Palindrome number

20.	PHP Array

```php
<?php
$skins=array("Prime"=>"1775","GlitchPop"=>"2045","ElderFlame"=>"2425","Spectrum"=>"2675");
foreach($skins as $k => $v) {
echo "Key: ".$k." Value: ".$v."<br/>";
}
```
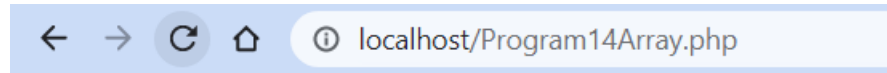

Key: Prime Value: 1775
Key: GlitchPop Value: 2045
Key: ElderFlame Value: 2425
Key: Spectrum Value: 2675

```php
?>
```

21. Calculator using PHP

```php
<!DOCTYPE html>
<html>
<body>

<?php
ini_set('display_errors',0);

if( isset( $_REQUEST['calculate'] ))
{
$operator=$_REQUEST['operator'];
$n1 = $_REQUEST['first_value'];
$n2 = $_REQUEST['second_value'];

if($operator=="+")
{
$res= $n1+$n2;
}
if($operator=="-")
{
$res= $n1-$n2;
}
if($operator=="*")
{
$res =$n1*$n2;
}
if($operator=="/")
{
$res= $n1/$n2;
}

if($_REQUEST['first_value']==NULL || $_REQUEST['second_value']==NULL)
{
echo "<script language=javascript> alert(\"Please Enter Correct values.\");</script>";
}
}
?>

<form>
<table style="border:groove #00FF99">

<tr>
```

```html
<td style="background-color:turquoise; color:black; font-family:'Times New Roman'">Enter
Number</td>
<td colspan="1">
<input name="first_value" type="text" style="color:red"/></td>
</tr>

<tr>
<td style="color:red; font-family:'Times New Roman'">Select Operator</td>
<td>
<select name="operator" style="width: 63px">
<option>+</option>
<option>-</option>
<option>*</option>
<option>/</option>
</select></td>
</tr>

<tr>
<td style="background-color:turquoise; color:black; font-family:'Times New Roman'">Enter
Number</td>
<td class="auto-style5">
<input name="second_value" type="text"  style="color:red"/></td>
</tr>

<tr>
<td></td>
<td><input type="submit" name="calculate" value="Calculate" style="color:wheat;background-color:rosybrown" /></td>
</tr>

<tr>
<td style="background-color:turquoise;color:black">Output = </td>
<td style="color:darkblue"><?php echo $res;?></td>
</tr>

</table>
</form>

</body>
</html>
```
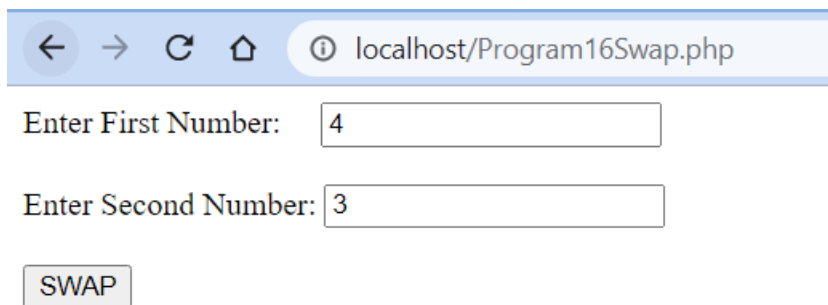
22. PHP Program to Swap Values in TextBoxes

```html
<html>
<body>
<form method="post">
Enter First Number: &nbsp &nbsp
<input type="number" name="number1" /><br><br>
Enter Second Number:
<input type="number" name="number2" /><br><br>
<input  type="submit" name="submit" value="SWAP">
</form>
<?php
   if(isset($_POST['submit']))
   {
      $number1 = $_POST['number1'];
      $number2 = $_POST['number2'];
echo "First Number: ".$number2;
echo "<br>";
echo "Second Number: ".$number1;
}
?>
</body>
</html>
```
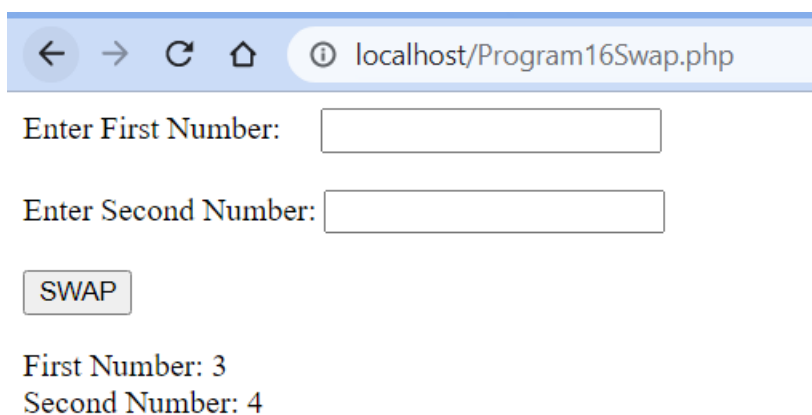
23.   PHP program to print the Multiplication Table of a Given Number

```
<!DOCTYPE html>
<html>
<head>
<title>Table of a Number</title>
</head>
<body>
<table>
<form name="table" method="post">
<tr>
<td>Enter Number :</td>
<td><input type="text" name="num" required></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="submit" name="submit" /></td>
</tr>
</form>
</table>
</body>
</html>

<?php
if(isset($_POST['submit']))
{
$num=$_POST['num'];
define('NUM',$num);
for($i=1 ; $i<=10 ; $i++)
{
echo $i*NUM;
echo "<br>";
}
}
?>
```

← → C ⌂ ⓘ localhost/Program17MulTable.php

Enter Number : 7

submit

← → C ⌂ ⓘ localhost/Program17MulTable.php

Enter Number :

submit

7
14
21
28
35
42
49
56
63
70

24. PHP Program to Check if a Given Year is a Leap Year

```php
<html>
<body>
  <form method="post">
    Enter the Year: <input type="text" name="year">
    <input type="submit" name="submit" value="Submit">
  </form>
</body>
</html>
<?php
  if($_POST)
  {
    //get the year
    $year = $_POST['year'];

    if(!is_numeric($year))
    {
      echo "Strings not allowed, Input should be a number";
      return;
    }

    if( (0 == $year % 4) and (0 != $year % 100) or (0 == $year % 400) )
    {
      echo "$year is a Leap Year";
    }
    else
    {
      echo "$year is not a Leap Year";
    }
  }
?>
```

← → C ⌂ ⓘ localhost/Program18LeapYear.php

Enter the Year: 2000   Submit

← → C ⌂ ⓘ localhost/Program18LeapYear.php

Enter the Year: [   ]   Submit

2000 is a Leap Year
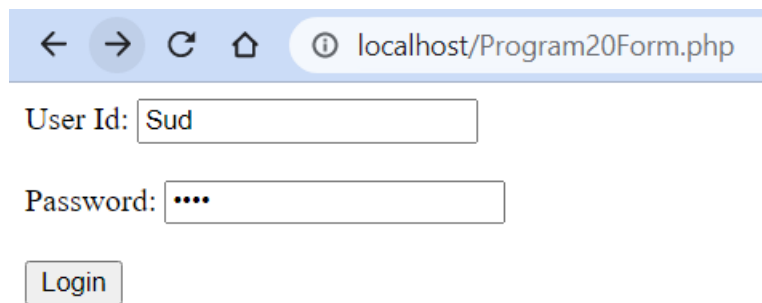
25.   PHP Program to check if a File Exists

```php
<?php
$filename = "Program12Date.php";
if (file_exists($filename)) {
   echo "File exist.";
} else {
   echo "File does not exist.";
}
?>
```


localhost/Program19FileCheck.php

File exist.
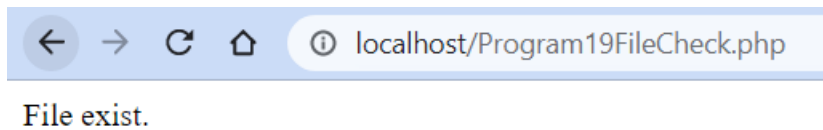
26.   PHP Program to Implement Login Session

```
<!DOCTYPE html>
<html>
<body>
<form method="post" action="login.php">
User Id: <input type="text" name="userid"><br><br>
Password: <input type="password" name="password"><br><br>
<input type="submit" value="Login">
</form>
</body>
</html>
```

27. JSON File for Hotel Menu

```json
{
 "breakfast_menu": {
  "food": [
   {
    "name": "Belgian Waffles",
    "price": "$5.95",
    "description": "Two of our famous Belgian Waffles with plenty of real maple syrup",
    "calories": 650
   },
   {
    "name": "Strawberry Belgian Waffles",
    "price": "$7.95",
    "description": "Light Belgian waffles covered with strawberries and whipped cream",
    "calories": 900
   },
   {
    "name": "Berry-Berry Belgian Waffles",
    "price": "$8.95",
    "description": "Light Belgian waffles covered with an assortment of fresh berries and whipped cream",
    "calories": 900
   },
   {
    "name": "French Toast",
    "price": "$4.50",
    "description": "Thick slices made from our homemade sourdough bread",
    "calories": 600
   },
   {
    "name": "Homestyle Breakfast",
    "price": "$6.95",
    "description": "Two eggs, bacon or sausage, toast, and our ever-popular hash browns",
    "calories": 950
   }
  ]
 }
}
```
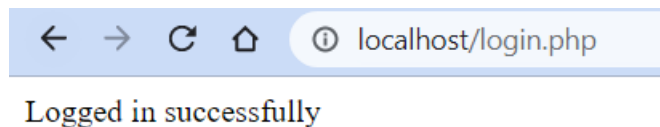
```
▼ object {1}
    ▼ breakfast_menu {1}
        ▼ food [5]
            ▼ 0 {4}
                name : Belgian Waffles
                price : $5.95
                description : Two of our famous Belgian Waffles with plenty of real maple syrup
                calories : 650
            ▼ 1 {4}
                name : Strawberry Belgian Waffles
                price : $7.95
                description : Light Belgian waffles covered with strawberries and whipped cream
                calories : 900
            ▼ 2 {4}
                name : Berry-Berry Belgian Waffles
                price : $8.95
                description : Light Belgian waffles covered with an assortment of fresh berries and whipped cream
                calories : 900
            ▼ 3 {4}
                name : French Toast
                price : $4.50
                description : Thick slices made from our homemade sourdough bread
                calories : 600
            ▼ 4 {4}
                name : Homestyle Breakfast
                price : $6.95
                description : Two eggs, bacon or sausage, toast, and our ever-popular hash browns
                calories : 950
```

28.	**JSON File for EMAils**

```json
{
  "emails": {
    "email": [
      {
        "to": "Vimal",
        "from": "Sonoo",
        "heading": "Hello",
        "body": "Hello brother, how are you!"
      },
      {
        "to": "Peter",
        "from": "Jack",
        "heading": "Birth day wish",
        "body": "Happy birth day Tom!"
      },
      {
        "to": "James",
        "from": "Jaclin",
        "heading": "Morning walk",
        "body": "Please start morning walk to stay fit!"
      },
      {
        "to": "Kartik",
        "from": "Kumar",
        "heading": "Health Tips",
        "body": "Smoking is injurious to health!"
      }
    ]
  }
}
```

```
▼ object {1}
  ▼ emails {1}
    ▼ email [4]
      ▼ 0 {4}
          to   : Vimal
          from : Sonoo
          heading : Hello
          body : Hello brother, how are you!
      ▼ 1 {4}
          to   : Peter
          from : Jack
          heading : Birth day wish
          body : Happy birth day Tom!
      ▼ 2 {4}
          to   : James
          from : Jaclin
          heading : Morning walk
          body : Please start morning walk to stay fit!
      ▼ 3 {4}
          to   : Kartik
          from : Kumar
          heading : Health Tips
          body : Smoking is injurious to health!
```

## 29.	JSON File For Teachers

```json
{
 "teachers": {
  "teacher": [
   {
    "name": "Sudarshan",
    "age": 23,
    "subject": "C Programming",
    "gender": "Male"
   },
   {
    "name": "Bruce",
    "age": 35,
    "subject": "Science",
    "gender": "Male"
   },
   {
    "name": "Peter",
    "age": 26,
    "subject": "Maths",
    "gender": "Male"
   },
   {
    "name": "Selina",
    "age": 31,
    "subject": "Arts",
    "gender": "Female"
   }
  ]
 }
}
```

```
▼ object {1}
   ▼ teachers {1}
      ▼ teacher [4]
         ▼ 0 {4}
               name : Sudarshan
               age : 23
               subject : C Programming
               gender : Male
         ▼ 1 {4}
               name : Bruce
               age : 35
               subject : Science
               gender : Male
         ▼ 2 {4}
               name : Peter
               age : 26
               subject : Maths
               gender : Male
         ▼ 3 {4}
               name : Selina
               age : 31
               subject : Arts
               gender : Female
```

30.   Implementation of bootstrap into Laravel

Download "bootstrap.min.css" and "bootstrap.bundle.min.js" file from https://getbootstrap.com/docs/5.1/getting-started/download.

Routes

web.php

```php
<?php

use Illuminate\Support\Facades\Route;

Route::get('/', function () {
   return view('index');
});
?>
```

View

headfoot.blade.php

```php
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <title>Xtreme Fitness</title>
    <link rel="icon" type = "image/png" href="<?php echo config('app.url')."/GYM/resources/";
?>img/favicon.png">
    <link rel="stylesheet" type="text/css" href="<?php echo
config('app.url')."/GYM/resources/"; ?>css/bootstrap.min.css">
    <link rel="stylesheet" type="text/css" href="<?php echo
config('app.url')."/GYM/resources/"; ?>css/style.css">
    <script type="text/javascript" src="<?php echo config('app.url')."/GYM/resources/";
?>js/javas.js"></script>
    <script type="text/javascript" src="<?php echo config('app.url')."/GYM/resources/";
?>js/jquery-3.3.1.min.js"></script>
    <script type="text/javascript" src="<?php echo config('app.url')."/GYM/resources/";
?>js/bootstrap.bundle.min.js"></script>
  </head>
  <body class="img-fulid">
```

```html
<nav class="navbar navbar-expand-lg navbar-dark bg-secondary">
    <a class="navbar-brand mb-0 h1" href="/">Xtreme Fitness </a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav mr-auto">
        <li class="nav-item">
          <a class="nav-link mb-0 h5" href="/training">Training</a>
        </li>
        <li class="nav-item">
          <a class="nav-link mb-0 h5" href="/yoga">Yoga</a>
        </li>
        <li class="nav-item">
            <a class="nav-link mb-0 h5" href="/diet">Diet</a>
        </li>
        <li class="nav-item">
            <a class="nav-link mb-0 h5" href="/about">About</a>
        </li>
        <li class="nav-item">
            <a class="nav-link mb-0 h5" href="/contact">Contact</a>
        </li>
      </ul>
      <ul class="navbar-nav navbar-right">
        <li class="nav-item">
          <a href="signup" class="nav-link mb-0 h5 ">Sign Up</a>
        </li>
        <li class="nav-item">
          <a href="/login" class="nav-link mb-0 h5"> Login</a>
        </li>
      </ul>
    </div>
  </nav>

  @yield("page-cont")

  <footer class="page-footer font-small fixed-bottom navbar-dark bg-secondary">
    <div class="footer-copyright text-center py-2">© 2022 Copyright: Akhil P Thomas
    </div>
  </footer>
 </body>
</html>
```

index.blade.php

```php
@extends("layouts.header")
@section("page-cont")
<br>
  <div>
    <a href="/signup">
    <marquee id="move" direction="left" scrollamount="10">
      <h2 onmouseover="mouseOver()" onmouseout="mouseOut()"><a id="mar"
href="/signup" style="color : red"  >Join Gym Now</a></h2>
    </marquee>
    </a>
    </div>
    <div id = "intro" class="container">
      <h3><span style="font-weight: 900; color: White">Xtreme Fitness</span></h3><br>
      <p><span style="font-weight: 600; color: white">Xtreme Fitness is a gym that provide
facility to exercise using machines, weights, and other equipment.
      Here people can do physical exercise and get fit. we have certified personal trainers to
train members of the gym.</span>
      </p>
    </div>
    <!-- image -->
    |<br>
    <div class="container">
      <div class="row">
        <div class="col-md-4">
        <div class="thumbnail">
          <a href="/training">
          <img src="<?php echo config('app.url')."/GYM/resources/"; ?>img/Training.jpg"
alt="Training" style="width:100%; height:80%;">
          <div class="caption">
            <p style="font-weight: 600; color: white; text-align:center">Train at Gym</p>
          </div>
          </a>
        </div>
        </div>
        <div class="col-md-4">
        <div class="thumbnail">
          <a href="/yoga">
          <img src="<?php echo config('app.url')."/GYM/resources/";
?>img/yoga.jpg"alt="Yoga" style="width:100%; height:80%;">
          <div class="caption">
            <p style="font-weight: 600; color: white; text-align:center">Do yoga at Gym</p>
```

```html
        </div>
        </a>
      </div>
      </div>
      <div class="col-md-4">
      <div class="thumbnail">
        <a href="/diet" >
        <img src="<?php echo config('app.url')."/GYM/resources/"; ?>img/diet.jpg"
alt="Diet" style="width:100%">
        <div class="caption">
          <p style="font-weight: 600; color: white; text-align:center"> Have a healthy
diet</p>
        </div>
        </a>
      </div>
      </div>
    </div>
  </div>
  <!-- <div>
    <ul>
      <li style="width: 90%">
        <img class="img-fluid img-thumbnail rounded float-left" style="width: 30%"
src="<?php echo config('app.url')."/GYM/resources/"; ?>img/Training.jpg">

        <img class="img-fluid img-thumbnail rounded mx-auto d-block" style="width: 30%"
src="<?php echo config('app.url')."/GYM/resources/"; ?>img/Yoga.jpg">

        <img class="img-fluid img-thumbnail rounded float-right" style="width: 30%"
src="<?php echo config('app.url')."/GYM/resources/"; ?>img/Diet.jpg">
      </li>
    </ul>
  </div> -->

@endsection
```
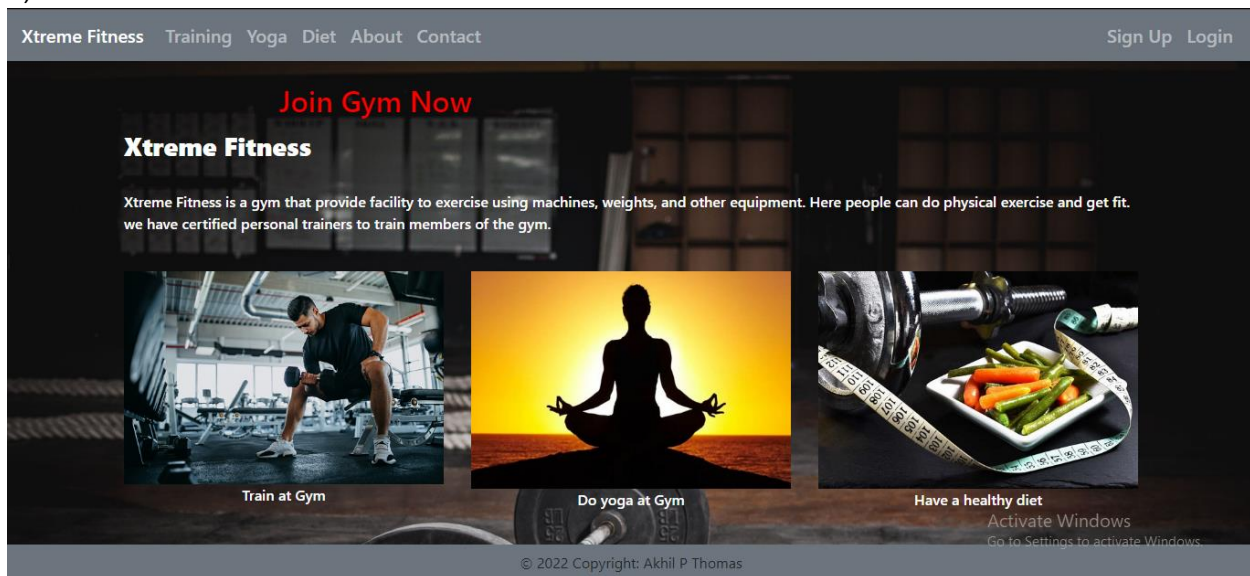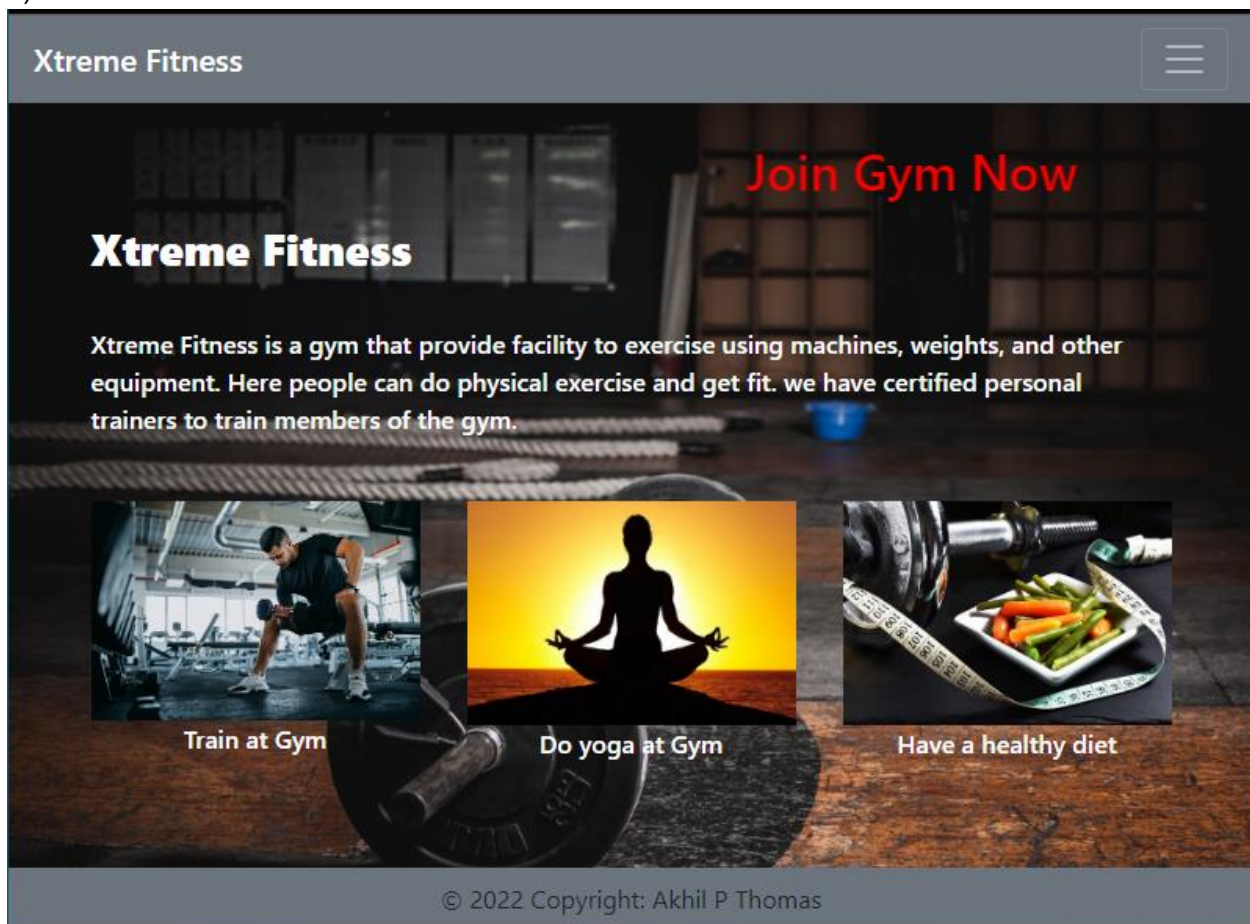
Output
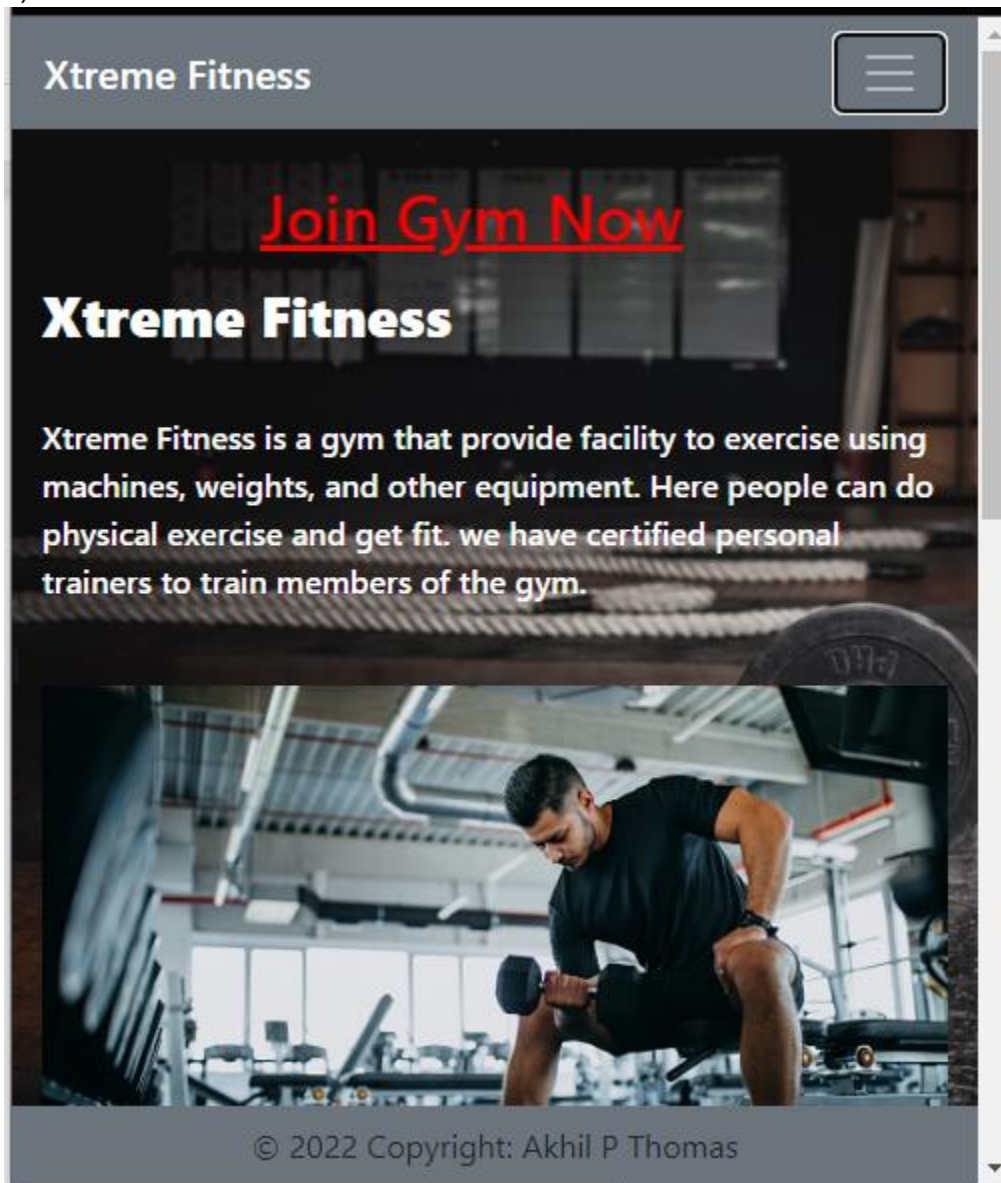
1)Full screen view

2) Minimized view

3) Mobile view

32.   Program to illustrate simple Laravel web application

Welcome.php

```html
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Weather App</title>
    <link rel="stylesheet" href="style.css">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href='https://unpkg.com/boxicons@2.0.9/css/boxicons.min.css' rel='stylesheet'>
    <style>
        @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap')
;
*{
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 font-family: 'Poppins', sans-serif;
}
body{
 display: flex;
 align-items: center;
 justify-content: center;
 min-height: 100vh;
 background: #43AFFC;
 background-image: url(rain-6243559.jpg);
 background-size: cover;
 background-attachment: fixed;
 background-blend-mode:darken;

}
::selection{
 color: #fff;
 /* background: #43AFFC; */
}
.centered {
 position: absolute;
 top: 5%;
 left: 50%;
 transform: translate(-50%, -50%);
```

```css
  color:white;
  font-size:xx-large;
  font-weight: bolder;
  padding: 10px; border: 2px rgb(0, 183, 255);
}

.wrapper{
  width: 400px;
  background: #fff;
  border-radius: 7px;
  box-shadow: 7px 7px 20px rgba(0, 0, 0, 0.05);
}
.wrapper header{
  display: flex;
  font-size: 21px;
  font-weight: 500;
  color: #43AFFC;
  padding: 16px 15px;
  align-items: center;
  border-bottom: 1px solid #ccc;
}
header i{
  font-size: 0em;
  cursor: pointer;
  margin-right: 8px;
}
.wrapper.active header i{
  margin-left: 5px;
  font-size: 30px;
}
.wrapper .input-part{
  margin: 20px 25px 30px;
}
.wrapper.active .input-part{
  display: none;
}
.input-part .info-txt{
  display: none;
  font-size: 17px;
  text-align: center;
  padding: 12px 10px;
  border-radius: 7px;
  margin-bottom: 15px;
}
```

```css
.input-part .info-txt.error{
 color: #721c24;
 display: block;
 background: #f8d7da;
 border: 1px solid #f5c6cb;
}
.input-part .info-txt.pending{
 color: #0c5460;
 display: block;
 background: #d1ecf1;
 border: 1px solid #bee5eb;
}
.input-part :where(input, button){
 width: 100%;
 height: 55px;
 border: none;
 outline: none;
 font-size: 18px;
 border-radius: 7px;
}
.input-part input{
 text-align: center;
 padding: 0 15px;
 border: 1px solid #ccc;
}
.input-part input:is(:focus, :valid){
 border: 2px solid #43AFFC;
}
.input-part input::placeholder{
 color: #bfbfbf;
}
.input-part .separator{
 height: 1px;
 width: 100%;
 margin: 25px 0;
 background: #ccc;
 position: relative;
 display: flex;
 align-items: center;
 justify-content: center;
}
.separator::before{
 content: "or";
 color: #b3b3b3;
```

```css
  font-size: 19px;
  padding: 0 15px;
  background: #fff;
}
.input-part button{
  color: #fff;
  cursor: pointer;
  background: #43AFFC;
  transition: 0.3s ease;
}
.input-part button:hover{
  background: #1d9ffc;
}
.wrapper .weather-part{
  display: none;
  margin: 30px 0 0;
  align-items: center;
  justify-content: center;
  flex-direction: column;
}
.wrapper.active .weather-part{
  display: flex;
}

.weather-part img{
  background-image: url("icon.png");
}
.weather-part .temp{
  display: flex;
  font-weight: 500;
  font-size: 72px;
}
.weather-part .temp .numb{
  font-weight: 600;
}
.weather-part .temp .deg{
  font-size: 40px;
  display: block;
  margin: 10px 5px 0 0;
}
.weather-part .weather{
  font-size: 21px;
  text-align: center;
  margin: -5px 20px 15px;
```

```css
}
.weather-part .location{
 display: flex;
 font-size: 19px;
 padding: 0 20px;
 text-align: center;
 margin-bottom: 30px;
 align-items: flex-start;
}
.location i{
 font-size: 22px;
 margin: 4px 5px 0 0;
}
.weather-part .bottom-details{
 display: flex;
 width: 100%;
 justify-content: space-between;
 border-top: 1px solid #ccc;
}
.bottom-details .column{
 display: flex;
 width: 100%;
 padding: 15px 0;
 align-items: center;
 justify-content: center;
}
.column i{
 color: #5DBBFF;
 font-size: 40px;
}
.column.humidity{
 border-left: 1px solid #ccc;
}
.column .details{
 margin-left: 3px;
}
.details .temp, .humidity span{
 font-size: 18px;
 font-weight: 500;
 margin-top: -3px;
}
.details .temp .deg{
 margin: 0;
 font-size: 17px;
```

```
   padding: 0 2px 0 1px;
}
.column .details p{
 font-size: 14px;
 margin-top: -6px;
}
.humidity i{
 font-size: 37px;
}
      </style>
 </head>
 <body>
 <script>
    const wrapper = document.querySelector(".wrapper"),
inputPart = document.querySelector(".input-part"),
infoTxt = inputPart.querySelector(".info-txt"),
inputField = inputPart.querySelector("input"),
locationBtn = inputPart.querySelector("button"),
weatherPart = wrapper.querySelector(".weather-part"),
wIcon = weatherPart.querySelector("img"),
arrowBack = wrapper.querySelector("header i");
let api;
inputField.addEventListener("keyup", e =>{
   if(e.key == "Enter" && inputField.value != ""){
      requestApi(inputField.value);
   }
});
locationBtn.addEventListener("click", () =>{
   if(navigator.geolocation){
      navigator.geolocation.getCurrentPosition(onSuccess, onError);
   }else{
      alert("Your browser not support geolocation api");
   }
});
function requestApi(city){
   api =
`https://api.openweathermap.org/data/2.5/weather?q=${city}&units=metric&appid=31741cdd
3334aada7c56596931b126ba`;
   fetchData();
}
function onSuccess(position){
   const {latitude, longitude} = position.coords;
```

```javascript
    api =
`https://api.openweathermap.org/data/2.5/weather?lat=${latitude}&lon=${longitude}&units=
metric&appid=31741cdd3334aada7c56596931b126ba`;
    fetchData();
}
function onError(error){
    infoTxt.innerText = error.message;
    infoTxt.classList.add("error");
}
function fetchData(){
    infoTxt.innerText = "Getting weather details...";
    infoTxt.classList.add("pending");
    fetch(api).then(res => res.json()).then(result => weatherDetails(result)).catch(() =>{
        infoTxt.innerText = "Something went wrong";
        infoTxt.classList.replace("pending", "error");
    });
}
function weatherDetails(info){
    if(info.cod == "404"){
        infoTxt.classList.replace("pending", "error");
        infoTxt.innerText = `${inputField.value} isn't a valid city name`;
    }else{
        const city = info.name;
        const country = info.sys.country;
        const {description, id} = info.weather[0];
        const {temp, feels_like, humidity} = info.main;
        if(id == 800){
            wIcon.src = "icons/clear.svg";
        }else if(id >= 200 && id <= 232){
            wIcon.src = "icons/storm.svg";
        }else if(id >= 600 && id <= 622){
            wIcon.src = "icons/snow.svg";
        }else if(id >= 701 && id <= 781){
            wIcon.src = "icon.jpg";
        }else if(id >= 801 && id <= 804){
            wIcon.src = "icon.jpg";
        }else if((id >= 500 && id <= 531) || (id >= 300 && id <= 321)){
            wIcon.src = "icons/rain.svg";
        }

        weatherPart.querySelector(".temp .numb").innerText = Math.floor(temp);
        weatherPart.querySelector(".weather").innerText = description;
        weatherPart.querySelector(".location span").innerText = `${city}, ${country}`;
        weatherPart.querySelector(".temp .numb-2").innerText = Math.floor(feels_like);
```

```
        weatherPart.querySelector(".humidity span").innerText = `${humidity}%`;
        infoTxt.classList.remove("pending", "error");
        infoTxt.innerText = "";
        inputField.value = "";
        wrapper.classList.add("active");
    }
}
arrowBack.addEventListener("click", ()=>{
    wrapper.classList.remove("active");
});
    </script>
    <div class="overlay"><div class="centered">Weather Updates</div></div>
    <div class="wrapper">
     <header><i class='bx bx-left-arrow-alt'></i>Weather App</header>
     <section class="input-part">
      <p class="info-txt"></p>
      <div class="content">
       <input type="text" spellcheck="false" placeholder="Enter city name" required>
       <div class="separator"></div>
       <button>Get Device Location</button>
      </div>
     </section>
     <section class="weather-part">
      <img src="icon.jpeg" alt="Weather Icon" width="80" height="75">
      <div class="temp">
       <span class="numb">_</span>
       <span class="deg">°</span></div>
      <div class="weather">_ _</div>
      <div class="location">
       <i class='bx bx-map'></i>
       <span>_, _</span>
      </div>
      <div class="bottom-details">
       <div class="column feels">
        <i class='bx bxs-thermometer'></i>
        <div class="details">
         <div class="temp">
          <span class="numb-2">_</span>
          <span class="deg">°</span>C
         </div>
         <p>Feels like</p>
        </div>
       </div>
       <div class="column humidity">
```

```
            <i class='bx bxs-droplet-half'></i>
            <div class="details">
             <span>_</span>
             <p>Humidity</p>
            </div>
           </div>
          </div>
        </section>
      </div>
    </body>
</html>
```
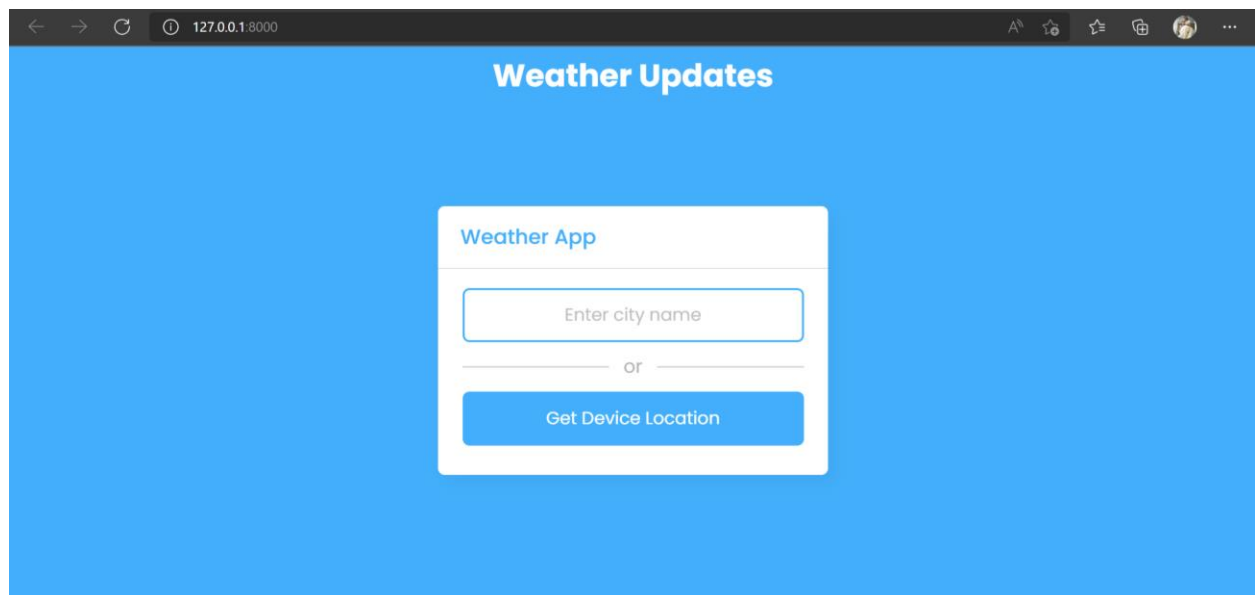
Output:

32. Create Laravel project with all form validations

web.php

```php
<?php

use Illuminate\Support\Facades\Route;

Auth::routes();

Route::get('/index', 'App\Http\Controllers\HomeController@index');
```

Controller

```php
<?php

namespace App\Http\Controllers\Auth;

use App\Http\Controllers\Controller;
use App\Providers\RouteServiceProvider;
use App\Models\User;
use Illuminate\Foundation\Auth\RegistersUsers;
use Illuminate\Support\Facades\Hash;
use Illuminate\Support\Facades\Validator;

class RegisterController extends Controller
{
    use RegistersUsers;

    protected $redirectTo = RouteServiceProvider::HOME;

    public function __construct()
    {
        $this->middleware('guest');
    }
}
```

View

register.blade

```
@extends('layouts.app')

@section('content')
<div class="container">
   <div class="row justify-content-center">
     <div class="col-md-8">
       <div class="card">
         <div class="card-header">{{ __('Register') }}</div>

         <div class="card-body">
           <form method="POST" action="{{ route('register') }}">
             @csrf

             <div class="row mb-3">
               <label for="name" class="col-md-4 col-form-label text-md-end">{{ __('Name')
}}</label>

               <div class="col-md-6">
                 <input id="name" type="text" class="form-control @error('name') is-invalid
@enderror" name="name" value="{{ old('name') }}" required autocomplete="name"
autofocus>

                 @error('name')
                   <span class="invalid-feedback" role="alert">
                     <strong>{{ $message }}</strong>
                   </span>
                 @enderror
               </div>
             </div>

             <div class="row mb-3">
               <label for="email" class="col-md-4 col-form-label text-md-end">{{ __('Email
Address') }}</label>

               <div class="col-md-6">
                 <input id="email" type="email" class="form-control @error('email') is-invalid
@enderror" name="email" value="{{ old('email') }}" required autocomplete="email">

                 @error('email')
                   <span class="invalid-feedback" role="alert">
```

```html
                    <strong>{{ $message }}</strong>
                </span>
            @enderror
        </div>
    </div>

    <div class="row mb-3">
        <label for="password" class="col-md-4 col-form-label text-md-end">{{
__('Password') }}</label>

        <div class="col-md-6">
            <input id="password" type="password" class="form-control
@error('password') is-invalid @enderror" name="password" required autocomplete="new-
password">

            @error('password')
                <span class="invalid-feedback" role="alert">
                    <strong>{{ $message }}</strong>
                </span>
            @enderror
        </div>
    </div>

    <div class="row mb-3">
        <label for="password-confirm" class="col-md-4 col-form-label text-md-end">{{
__('Confirm Password') }}</label>

        <div class="col-md-6">
            <input id="password-confirm" type="password" class="form-control"
name="password_confirmation" required autocomplete="new-password">
        </div>
    </div>

    <div class="row mb-0">
        <div class="col-md-6 offset-md-4">
            <button type="submit" class="btn btn-primary">
                {{ __('Register') }}
            </button>
        </div>
    </div>
</form>
</div>
</div>
</div>
```
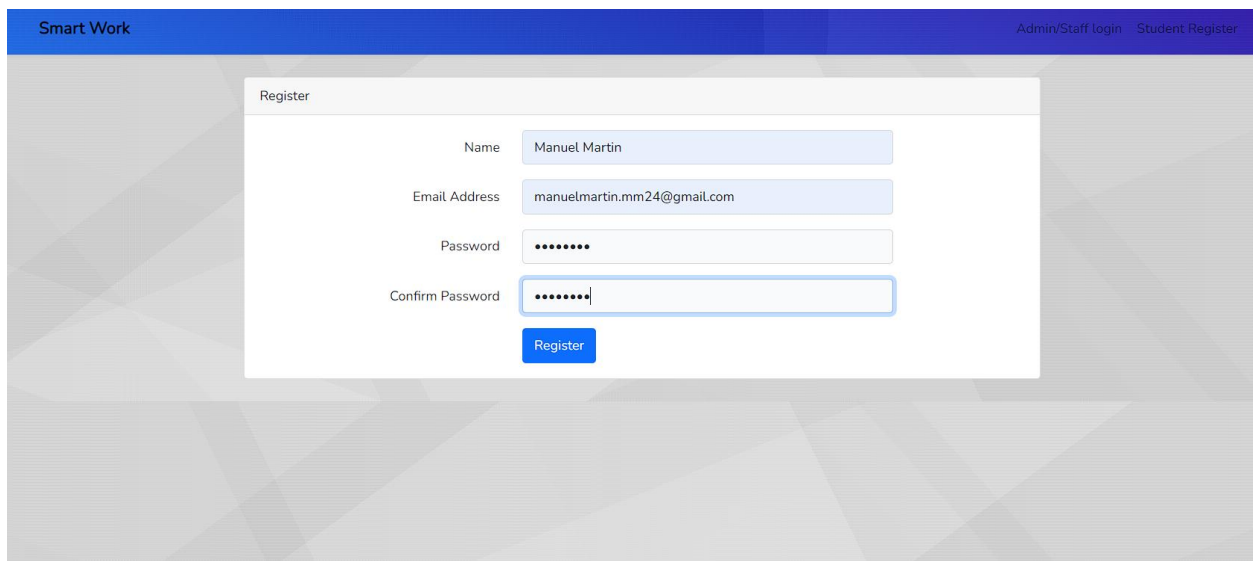
```
    </div>
</div>
@endsection
```

index.blade

```
@extends("layouts/head")
@section("flex")

<div class="d-flex flex-column">
  @foreach ($sub as $s)
 <div class="p-4 bg-primary border">
  <form method="post" action="/assign/{{$s->subid}}">
  @csrf
  <input type="text" name="user" value="{{Auth::user()->email }}" hidden>
  <button type="submit"  style="border:none;background:transparent; outline: none;">
  <p style="font-size:20px;">{{$s->subname}}</p>
 </button>
</form>
</div>
 @endforeach
</div>

@endsection
```

Output

Smart Work

Register

Name	Manuel Martin
Email Address	manuelmartin.mm24@gmail.com ⊙
	The email has already been taken.
Password	⊙
	The password confirmation does not match.
Confirm Password	

Register

Smart Work

Register

Name	Joy JK
Email Address	joyjk@gmail.com
Password	⊙
	The password must be at least 8 characters.
Confirm Password	

Register

Smart Work

Welcome **Joy JK**

LOGOUT   Materi

Subject

Assignments

Dropdown

Java programming

Algorithmm

c++

33. Create a simple Laravel Web Application with Login Form

web.php

```php
<?php

use Illuminate\Support\Facades\Route;
use App\Models\testimonial;

Route::get('/log', function () {
   return view('log');
});

Route::get('/register','App\Http\Controllers\NewuserController@index');
Route::post('/adduser','App\Http\Controllers\NewuserController@store');
Route::post('/newlogin','App\Http\Controllers\NewuserController@login');
```

View

index.blade.php
```php
@extends("layouts/app")
@section("style")
 <style type="text/css">


  img {
   width: 100%;
   height: 100%;
    animation-delay: 2s;
     animation-fill-mode:backwards;
   animation: ani 2s linear;
   animation-timing-function: ease-in;
  }

  @keyframes ani {
   0% {
    transform: scale(1.065);
   }
   59% {
    transform: scale(1.2);
   }
   100% {
    transform: scale(1);
```

```
      }
     }

   </style>
   </head>
   <body>
   @endsection


@section("giff")
<video id="videoBG" poster="image/im.gif" autoplay muted loop>
<source src="image/video.mp4" type="video/mp4">
</video>
@endsection




@section("con")

   <div class="row">

     <div class="c2">

       <h1 style="font-weight: bolder;font-size: 170px;font-family: 'Sacramento', cursive"><span
class="highlight">{{$text->name}}</span></h1><br><br><br><br><br>
       <h1 style="font-weight: bolder;font-size: 170px;font-family: 'Sacramento',
cursive">Soft</h1>
       <br><br><br><br>
       <p style="font-size:21px;">Softwares at affordable prices</p>

     </div>
      <div class="c2">
       <img  src="image/ss.png" style="margin-top:-44px;">
      </div>
    </div>
</div>
</div>

  <div class="cat">

   <div class="sc">

   <div class="row">
```

```
    <div class="c3">
        <img class="m1" src="image/icon1.png">
    </div>

    <div class="c3">
        <img  class="m1" src="image/icon2.png">
    </div>

    <div class="c3">
        <a href="prod2"><img  class="m1" src="image/icon3.png"><a>
   </div>
   </div>

 </div>
 </div>


@endsection
```

log.blade.php
```
@extends("layouts/app")

@section("style")
  <style type="text/css">



 .a{
 position: relative;
 animation-name: example;
 animation-duration: 1s;
}

@keyframes example {
 0%  {background-color:transparent; left:0px; top:0px;}
 25% {background-color:transparent; left:200px; top:0px;}
 50% {background-color:transparent; left:200px; top:200px;}
 75% {background-color:transparent; left:0px; top:200px;}
 100% {background-color:transparent; left:0px; top:0px;}
}
 </style>
</head>
```

```
<body>
@endsection
@section("con")
 <div class="account-page">
  <div class="container">
   <div class="row">
    <div class="c2">
      <img src="image/acc.png">
    </div>
    <div class="c2">
      <div class="form-container2">
      @if(isset($err))
      <p style="margin-right:33px;color:red;">{{$err}}</p>
        @endif
       <div class="a"> <img src="image/accm.png" width="150px"> </div>
        <form action="/newlogin" method="post">
         @csrf
        <input type="text" name="email" id="email" placeholder="Email" required>
        <input type="password" name="password" placeholder="password" required>
        <input  type="submit" class="btn" value="Login" name="login"> <br>

       </form>
Not a user yet?<a href="/register"><u>Register</u></a>
       </div>
    </div>
    </div>
    </div>
    </div>




<script
  src="https://code.jquery.com/jquery-2.2.4.min.js"
  integrity="sha256-BbhdlvQf/xTY9gja0Dq3HiwQF8LaCRTXxZKRutelT44="
  crossorigin="anonymous"></script>
<script src="https://smtpjs.com/v3/smtp.js"></script>

<script>

   function sendmail(){
    var email = $('#email').val();
    var Body='Welcome to Master tech';
```

```
Email.send({
   Host : "smtp.gmail.com",
   Username : "manuelmartin.mm24@gmail.com",
   Password : "hykwzzjayneyhuou",
   To : email,
   From : "manuelmartin.mm24@gmail.com",
   Subject : "WELCOME",
   Body : "Welcome to master tech"
})

alert('Check mail');
window.location.replace("index.php");
   }

   </script>

@endsection
```

register.blade.php

```
@extends("layouts/app")

@section("con")
 <div class="account-page">
  <div class="container">
   <div class="row">

    <!-- <div class="c2">
      <img src="image/acc.png" width="100%">
     </div> -->
      <div class="c2">


     <div  style="width:300px;" >
      <div class="slide" style="margin-right: 220px;width:300px;"> <img
src="image/footerlogo.png" width="250px"> </div>

      <form action="/adduser" method="POST" enctype="multipart/form-data">
@csrf

       <br><br>
        <table >
        <tr>
```

```html
      <td align="left" style="margin-left: 10px;">NAME</td><td><input type="text"
name="name" placeholder="Enter Full name"   required><td>
       </tr>
       <td align="left">CITY</td>
       <td><input type="text" name="city" placeholder="Enter City"  required></td>
     </tr>
      <tr>

       <td align="left">EMAIL</td>
       <td><input type="text" name="email" placeholder="email" autocomplete="off"
required></td>
     </tr>

       <tr>
       <td align="left">PASSWORD</td>
       <td><input type="password" name="password" placeholder="password"
required></td>
     </tr>

       <tr>

       <td align="left">CONFIRM PASSWORD</td>
       <td><input type="password" name="cpass" placeholder="confirm password"
required></td>


      </tr>
     </table>
     <td></td>
       <button  type="submit" class="btn"  name="Register" style="margin-
left:30px;">Register</button>

     </form>
     @if(isset($err))
   <p style="margin-left:28px;color:red;">{{$err}}</p>
   @endif


    </div>
   </div>

   </div>
   </div>
   </div>
```

```html
    <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
  <script type="text/javascript">
   $(document).ready(function(){
    $('.menu-toggle').click(function(){
     $('nav').toggleClass('active')
    })
    $('ul li').click(function(){
     $(this).toggleClass('active')
    })
   })
  </script>
```

@endsection

Controller

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\newuser;

class NewuserController extends Controller
{
  /**
   * Display a listing of the resource.
   *
   * @return \Illuminate\Http\Response
   */
  public function index()
  {
    return view('register');
  }

  /**
   * Show the form for creating a new resource.
   *
   * @return \Illuminate\Http\Response
   */
  public function create()
  {
```

```php
        //
    }

    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $email=request('email');
        $p=request('password');
        $cp=request('cpass');
        $i=newuser::where('email',$email)->first();
        if( isset($i) && $i->email==$email)
        {
            $error=[
                "err"=>"email already exists"
            ];
            return view('register',$error);
        }
        else if($p!=$cp)
        {
            $error=[
                "err"=>"Password doesnt match"
            ];
            return view('register',$error);
        }
    else{
        $add=new newuser();
        $add->name=request('name');
        $add->email=request('email');
        $add->city=request('city');
        $add->password=request('password');
        $add->save();
        $text=\DB::table('tests')->where("id",1)->first();
        return view('/index',["text"=>$text]);
    }
    }

    /**
     * Display the specified resource.
     *
```

```php
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function show($id)
{
    //
}

/**
 * Show the form for editing the specified resource.
 *
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function edit($id)
{
    //
}

/**
 * Update the specified resource in storage.
 *
 * @param  \Illuminate\Http\Request  $request
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function login(Request $request)
{
    $email=request('email');
    $psw=request('password');
    $rs=newuser::where('email',$email)->where('password',$psw)->get();
    foreach($rs as $r)
    {
        if($r->email==$email && $r->password==$psw)
        {

            $text=\DB::table('tests')->where("id",1)->first();
            return view('/index',["text"=>$text]);
        }
    }

    return view('/log',["err"=>"Incorrect details"]);
}
```
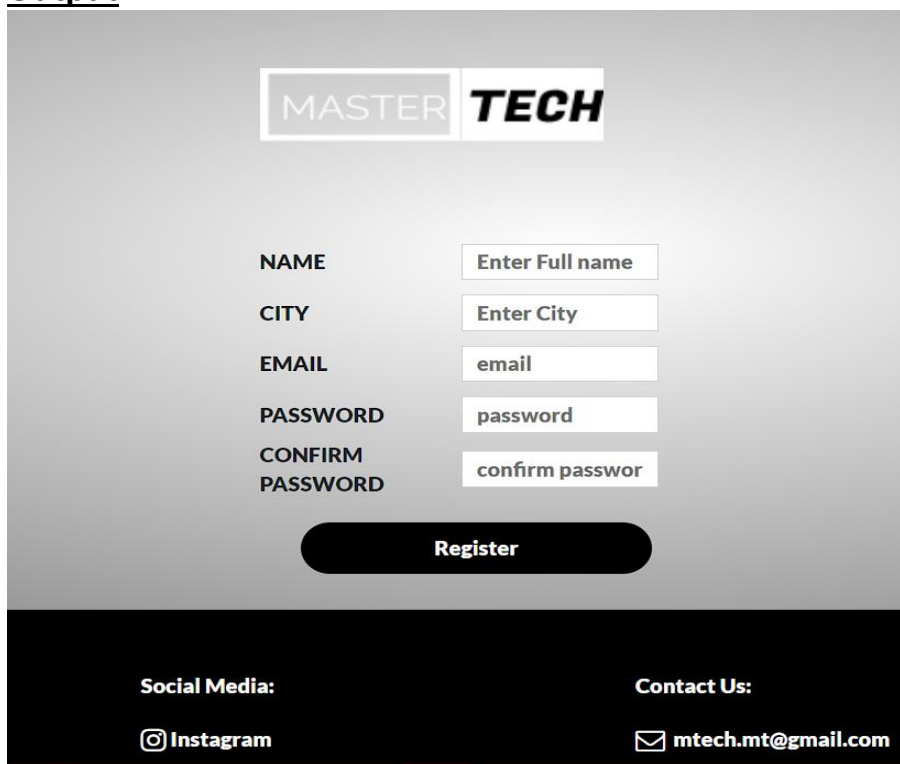
```
    /**
     * Remove the specified resource from storage.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function destroy($id)
    {
        //
    }
}
```

Output

MASTER TECH

NAME — Enter Full name

CITY — Enter City

EMAIL — Appu@gmail.com

PASSWORD — ....

CONFIRM PASSWORD — confirm passwor

Register

Password doesnt match

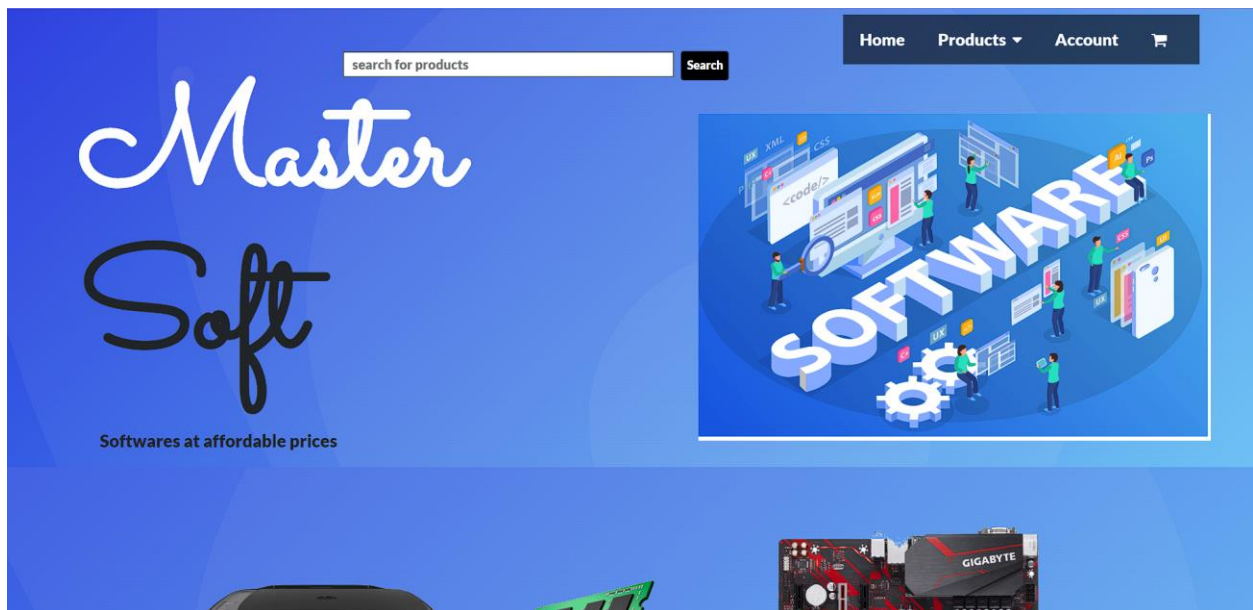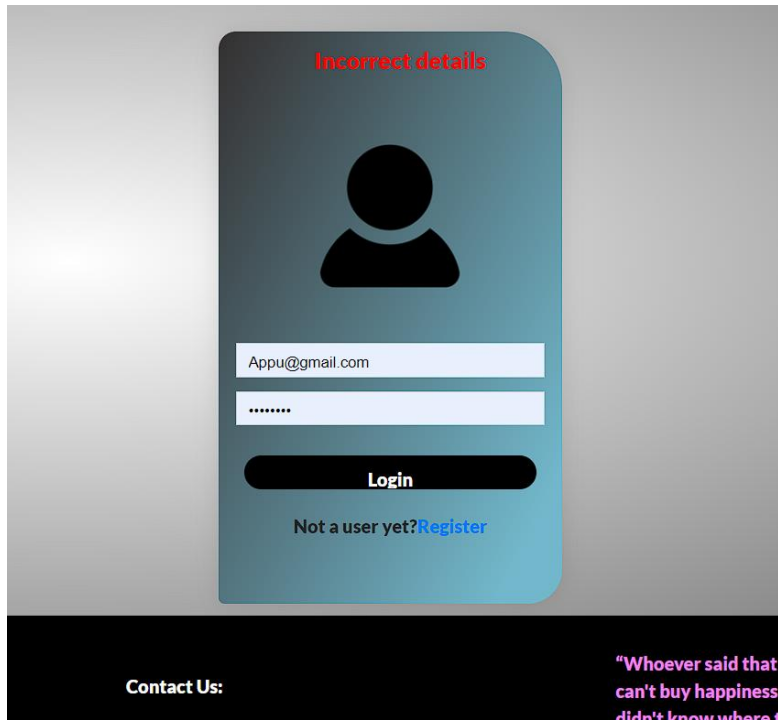Social Media: Contact Us:

Appu@gmail.com

....

Login

Not a user yet?Register

Contact Us:

"Whoever said that mo

34.   Implement sessions handling in Laravel web application

web.php

```php
<?php

use Illuminate\Support\Facades\Route;



   Route::get('session/get',"App\Http\Controllers\SessionController@accessSessionData");
Route::get('session/set',"App\Http\Controllers\SessionController@storeSessionData");
Route::get('session/remove',"App\Http\Controllers\SessionController@deleteSessionData")
;
```

SessionsController

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Http\Requests;
use App\Http\Controllers\Controller;

class SessionController extends Controller
{
  //
  public function accessSessionData(Request $request) {
    if($request->session()->has('my_name'))
      echo $request->session()->get('my_name');
    else
      echo 'No data in the session';
  }
  public function storeSessionData(Request $request) {
    $request->session()->put('my_name','Virat Gandhi');
    echo "Data has been added to session";
  }
  public function deleteSessionData(Request $request) {
    $request->session()->forget('my_name');
    echo "Data has been removed from session.";
  }
}
```

Output

← → C ⓘ 127.0.0.1:8000/session/get

Virat Gandhi

← → C ⓘ 127.0.0.1:8000/session/set

Data has been added to session

← → C ⓘ 127.0.0.1:8000/session/remove

Data has been removed from session.

35. Create a simple database application using Laravel

Migrations

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

class CreateTestimonialsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('testimonials', function (Blueprint $table) {
            $table->id();
            $table->string('title');
            $table->text('body');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('testimonials');
    }
}
```

Controller

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class Testimonial extends Controller
{
```

```php
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        //
        $datas=\DB::select('select * from testimonials');
        return view('Testimonials\index',['data'=>$datas]);
    }

    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        //
    }

    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        //
    }

    /**
     * Display the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {
        //
    }

    /**
     * Show the form for editing the specified resource.
     *
```

```php
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function edit($id)
{
    //
}

/**
 * Update the specified resource in storage.
 *
 * @param  \Illuminate\Http\Request  $request
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function update(Request $request, $id)
{
    //
}

/**
 * Remove the specified resource from storage.
 *
 * @param  int  $id
 * @return \Illuminate\Http\Response
 */
public function destroy($id)
{
    //
}
}
```

Model

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Testimonial extends Model
{
    use HasFactory;
    public $fillable = ['title','body'];
}
```

View

```
@extends('Layouts/app')
@section("page-content")
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <table border="2">
        <tr>
            <td>Title<h1></h1></td>
            <td><h1>body</h1></td>
        </tr>
        @foreach($data as $res)
        <tr>
            <td>
            <h1>{{$res->title}}</h1>
            </td>
            <td>
             <h3>{{$res->body}}</h3>

            </td>

        </tr>
        @endforeach
     </table>
    <!-- @foreach($data as $res)
    <h1>{{$res->title}}</h1>
    <h3>{{$res->body}}</h3>
    @endforeach -->
</body>
</html>
@endsection
```
Web.php
```php
<?php

use Illuminate\Support\Facades\Route;
    Route::get('/',"App\Http\Controllers\Testimonial@index");
```

Output

| Logo | | home | about | contact | course |

Title	**body**
Testimonial4	content in testimonial4
Testimonial2	content in testimonial2
Testimonial5	content in testimonail5
Testimonial6	content in body Testimonial7

Designed and developed by **Nibin Benny**

web.php

```php
<?php

use Illuminate\Support\Facades\Route;

Route::get('/', "App\Http\Controllers\SkinsController@index");
Route::get('/create', "App\Http\Controllers\SkinsController@create");
Route::post('/', "App\Http\Controllers\SkinsController@store");
Route::get('/{skin}', "App\Http\Controllers\SkinsController@show");
Route::get('/{skin}/edit', "App\Http\Controllers\SkinsController@edit");
Route::put('/{skin}', "App\Http\Controllers\SkinsController@update");
Route::delete('/{skin}', "App\Http\Controllers\SkinsController@destroy");
```

Controller

```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Skins;

class SkinsController extends Controller
{
  public function index()
  {
    $skins = Skins::all();
    return view("index",["skins"=>$skins]);
  }

  public function create()
  {
    return view("create");
  }

  public function store(Request $request)
  {
    request()->validate([
        'title' => 'required',
        'price' => 'required'
```

```php
        ]);

        $skin = new Skins();
        $skin->Title = request("title");
        $skin->Price = (int)request("price");
        $skin->save();
        return redirect("/");
    }

    public function show($id)
    {
        //
        $skin = Skins::find($id);
        return view("show",["skin"=>$skin]);
    }
    public function edit($id)
    {
        $skin = Skins::find($id);
        return view("edit",["skin"=>$skin]);
    }

    public function update(Request $request, $id)
    {
        request()->validate([
            'title' => 'required',
            'price' => 'required'
        ]);

        $skin = Skins::find($id);
        $skin->Title = request("title");
        $skin->Price = (int)request("price");
        $skin->save();
        return redirect("/");
    }

    public function destroy($id)
    {
        $skin = Skins::find($id);
        $skin->delete();
        return redirect("/");
    }
}
```

Output :

Skins - CRUD   Home   New

Prime
Price : 1775
[Edit]

Glitchpop
Price : 2175
[Edit]

Elderflame
Price : 2475
[Edit]

Reaver

Skins - CRUD   Home   New

NEW

Spectrum

2675

[Save]

Glitchpop
Price : 2175
[Edit]

Elderflame
Price : 2475
[Edit]

Reaver
Price : 1775
[Edit]

Spectrum
Price : 2675
[Edit]

EDIT

Reaver

2000

Save

Glitchpop

Price : 2175

Edit

Elderflame

Price : 2475

Edit

Reaver

Price : 2000

Edit

Spectrum

Price : 2675

Edit

Skins - CRUD   Home   New

Reaver

Price : 2000

Delete

127.0.0.1:8000 says

Delete Skin?

OK   Cancel

Skins - CRUD   Home   New

Reaver

Price : 2000

Delete

Prime

Price : 1775

Edit

Glitchpop

Price : 2175

Edit

Elderflame

Price : 2475

Edit

Spectrum

Price : 2675

Edit