

**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.

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External Examiner

Place : Kalamassery

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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>
    
    <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

```
<!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 chanter explains ba bla bla

3. HTML Webpage to change CSS using JavaScript

```
<!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>
```

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

Changing CSS using JavaScript

JavaScript can change the style of an HTML element.

Change Above Text Color to Blue

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

Changing CSS using JavaScript

JavaScript can change the style of an HTML element.

Change Above Text Color to Blue

4. HTML Webpage to create a Table

```
<!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>
      <tr>
        <td>Row 2, column 1</td>
        <td>Row 2, column 2</td>
      </tr>
    </table>
  </body>
</html>
```

← → ↻ 🏠 ⓘ 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

```
<!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>
```

← → ↻ 🏠 ⓘ 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

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

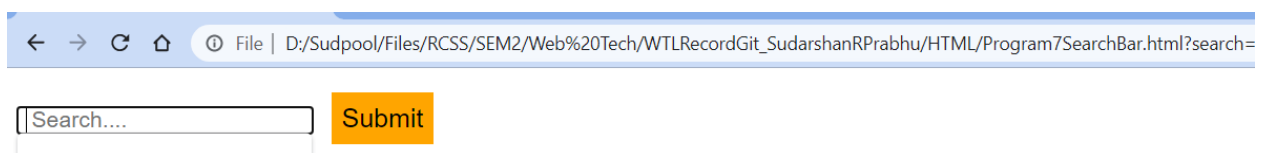
    <script>
      var countDownDate = new Date("Jan 5, 2024 15:37:25").getTime();
      var x = setInterval(function() {
        var now = new Date().getTime();
        var distance = countDownDate - now;
        var days = Math.floor(distance / (1000 * 60 * 60 * 24));
        var hours = Math.floor((distance % (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

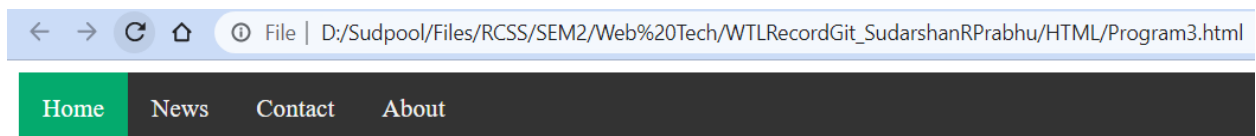
7. HTML Webpage to create a Search Bar

```
<!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

```
<!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>
```




```
<!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("userError").style.display="none";
        document.getElementById("pwdError").style.display="none";
        if(userL.value.length == 0)
        {
          flag=1;
          document.getElementById("userError").style.display="inline";
        }
        if(pwd.value.length == 0)
        {
          flag=1;
          document.getElementById("pwdError").style.display="inline";

```

```

    }
    if(flag==0)
    {
        alert("Feature Not Available")
    }
}
</script>
</head>
<body>
<h1>
    
    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="userError" style="display: none; color: red; font-size: medium;">Cannot be
Blank!</label><br><br>
    <input type="password" name="pswr" id="pswr" placeholder="Password"><label
id="pwdError" 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>

```



Computer Science Department

Student Login

Login :

Cannot be Blank!

Cannot be Blank!

[Forgot Password?](#)

[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");
```

```

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>
    
    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">

```

```

<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="coursererror" 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="pwdError" 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="cpwdError" 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>

```



RCSS

RAJAGIRI COLLEGE OF
SOCIAL SCIENCES
(AUTONOMOUS)

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!

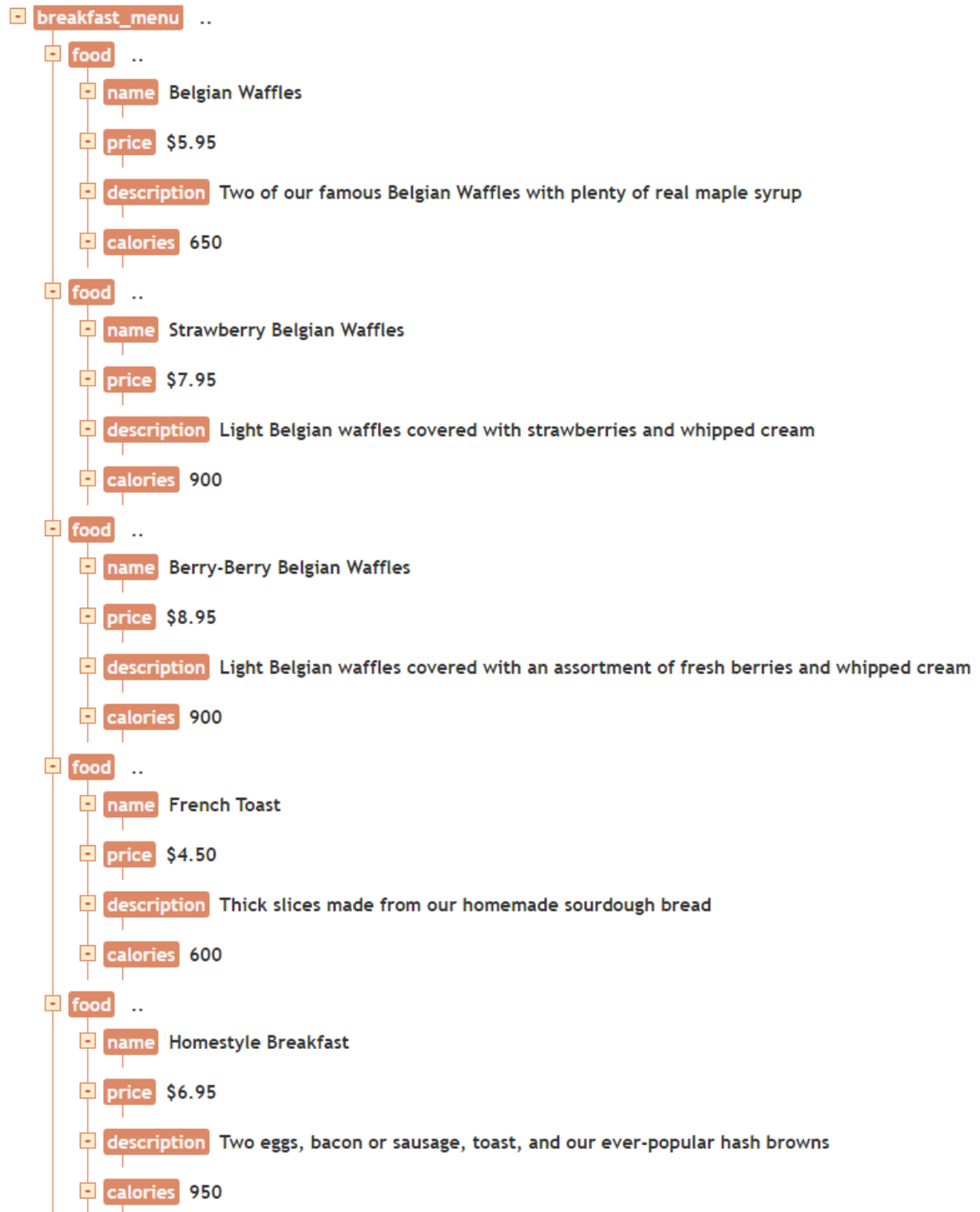
Password Cannot be Blank!

Confirm Password Cannot be Blank!

Register

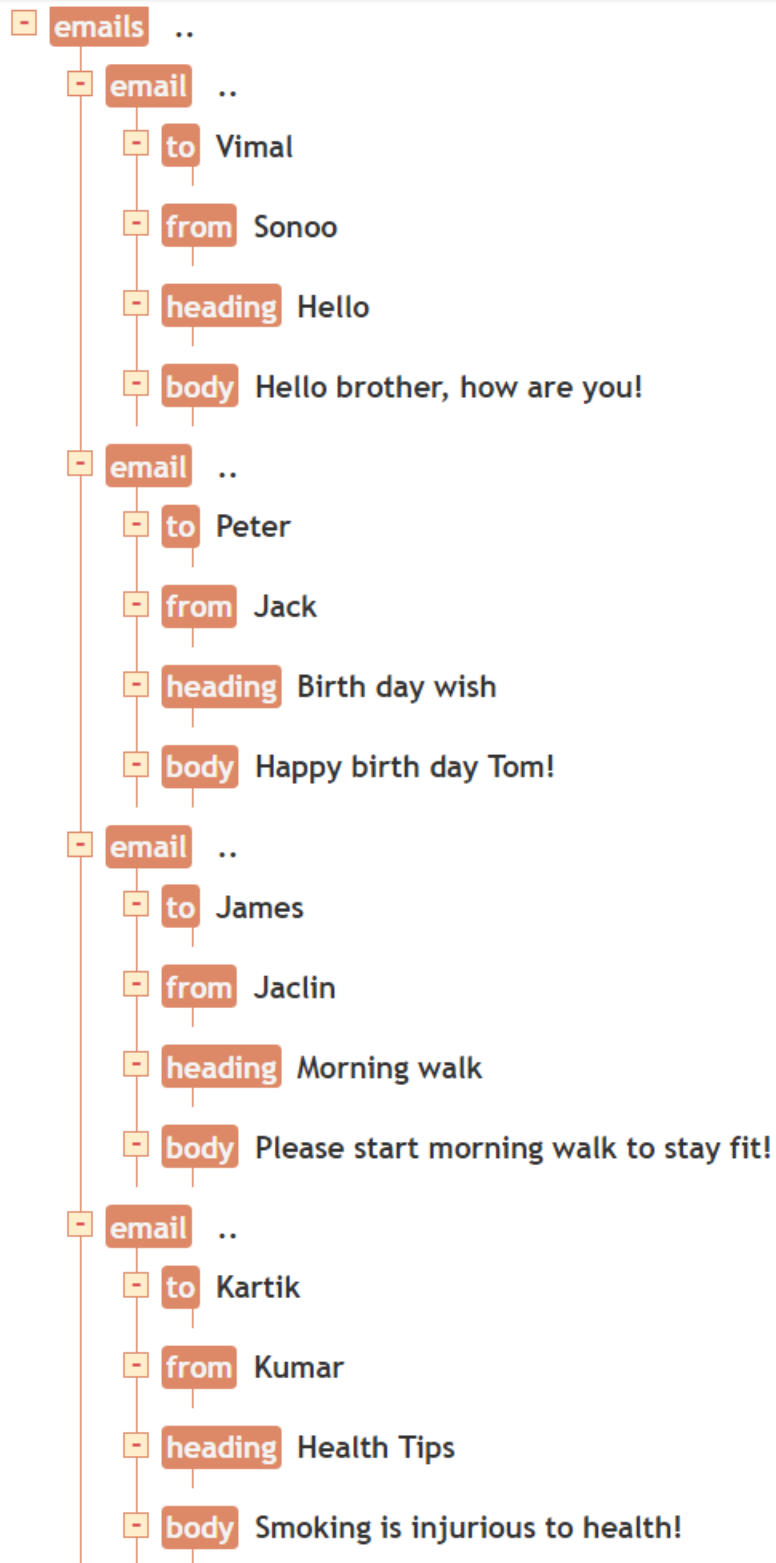
11. XML File for Hotel Menu

```
<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>
```



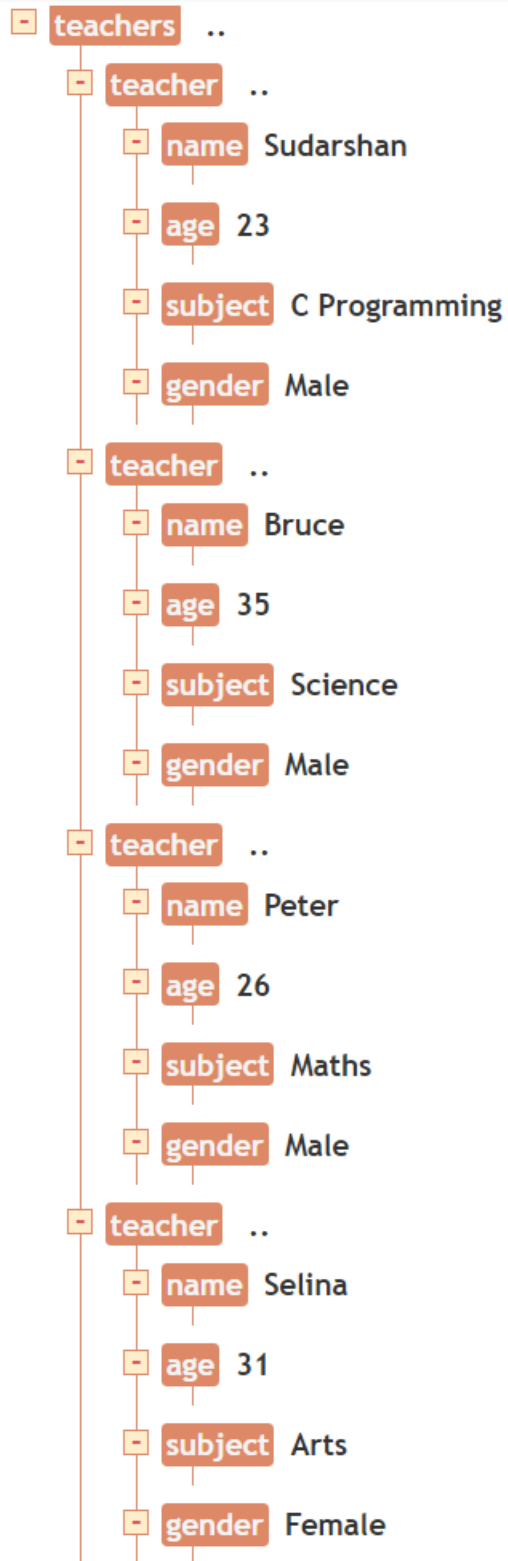
12. XML File for EMails

```
<?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>
```



13. XML File for Teacher Info

```
<?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>
```



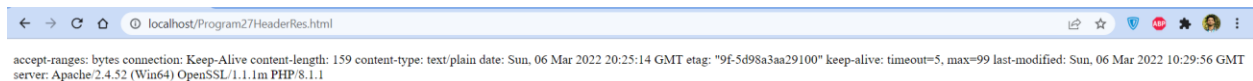
14. HTML Webpage to Retrieve All Header Information of a File using AJAX

```
<!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

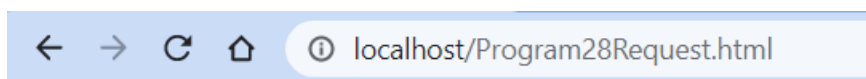
15. HTML Webpage to Retrieve Data from a Text File using AJAX

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

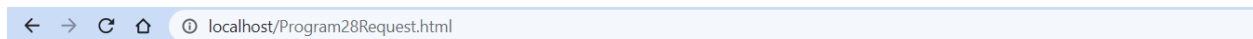
<div id="demo">
<button type="button" onclick="loadDoc()">Change Content</button>
</div>

<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>
```



Change Content



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.

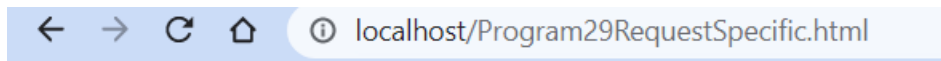
16. HTML Webpage to Retrieve Specific Header Info of a File using AJAX

```
<!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>

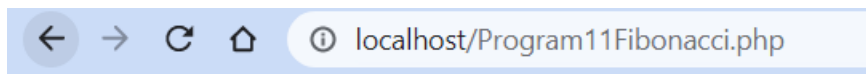
</body>
</html>
```



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

17. PHP Program to print Fibonacci Series

```
<?php
$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;
}
?>
```

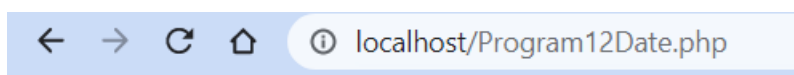


Fibonacci Series

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

18. PHP Program to print Current Date and Time

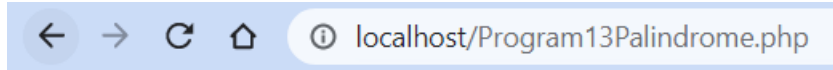
```
<?php  
  
echo "The date and time is :";  
  
$myDate = date("d-m-y h:i:s");  
  
echo $myDate;  
  
?>
```



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

19. PHP Program to Check if Palindrome

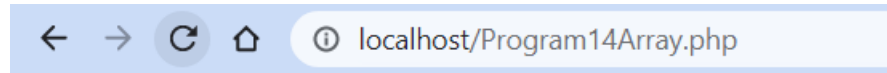
```
<?php
function palindrome($n){
    $number = $n;
    $sum = 0;
    while(floor($number)) {
        $rem = $number % 10;
        $sum = $sum * 10 + $rem;
        $number = $number/10;
    }
    return $sum;
}
$input = 1235321;
$num = palindrome($input);
if($input==$num){
    echo "$input is a Palindrome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



1235321 is a Palindrome number

20. PHP Array

```
<?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

?>

21. Calculator using 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>
```

```

<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>

```

← → ↻ 🏠 ⓘ localhost/Program15Calculator.php

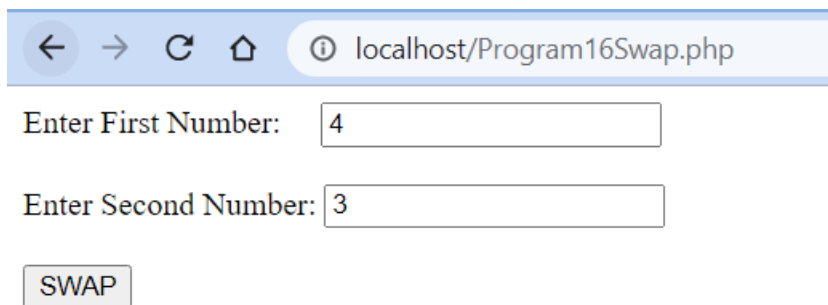
Enter Number	<input type="text" value="4"/>
Select Operator	<input type="text" value="*"/>
Enter Number	<input type="text" value="3"/>
	<input type="button" value="Calculate"/>
Output =	

← → ↻ 🏠 ⓘ localhost/Program15Calculator.php?first_value=4&operator=*&second_value=3&calculate=Calculate

Enter Number	<input type="text"/>
Select Operator	<input type="text" value="+"/>
Enter Number	<input type="text"/>
	<input type="button" value="Calculate"/>
Output =	12

22. PHP Program to Swap Values in TextBoxes

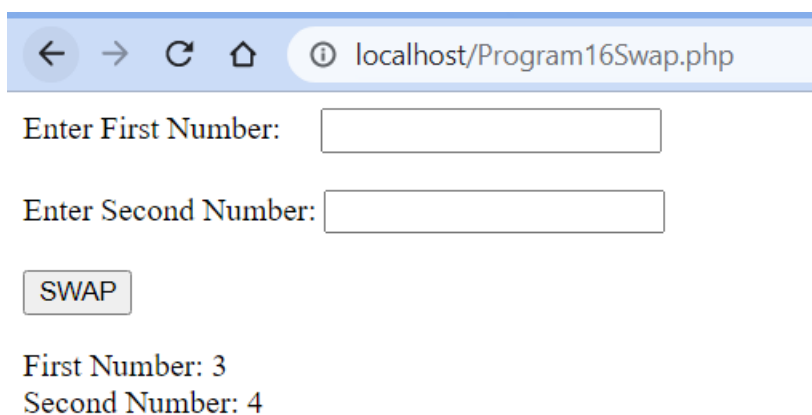
```
<html>
<body>
<form method="post">
Enter First Number: &nbsp; &nbsp; &nbsp;
<input type="number" name="number1" /><br><br>
Enter Second Number:
<input type="number" name="number2" /><br><br>
<input type="submit" name="submit" value="SWAP">
</form>
<?php
    if(isset($_POST['submit']))
    {
    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



← → ↻ 🏠 ⓘ localhost/Program16Swap.php

Enter First Number:

Enter Second Number:



← → ↻ 🏠 ⓘ localhost/Program16Swap.php

Enter First Number:

Enter Second Number:

First Number: 3
Second Number: 4

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>";
}
}
?>
```

← → ↻ 🏠 ⓘ localhost/Program17MulTable.php

Enter Number :

submit

← → ↻ 🏠 ⓘ 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

```
<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";
    }
  }
?>
```

← → ↻ 🏠 ⓘ localhost/Program18LeapYear.php

Enter the Year:

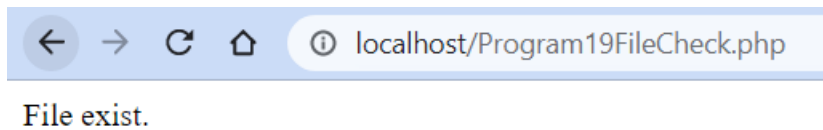
← → ↻ 🏠 ⓘ localhost/Program18LeapYear.php

Enter the Year:

2000 is a Leap Year

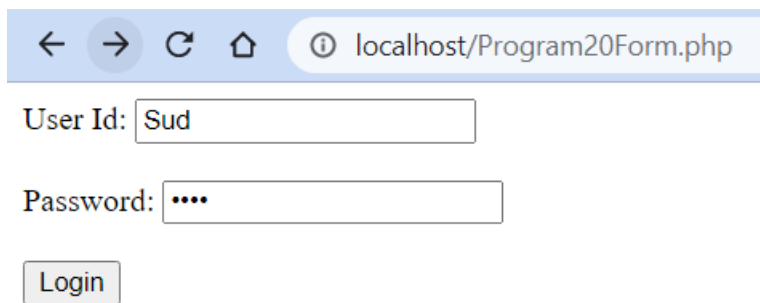
25. PHP Program to check if a File Exists

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



26. PHP Program to Implement Login Session

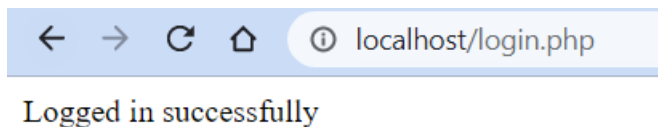
```
<!DOCTYPE html>
<html>
<body>
<form method="post" action="login.php">
User Id: <input type="text" name="userid"><br><br>
Password: <input type="password" name="password"><br><br>
<input type="submit" value="Login">
</form>
</body>
</html>
```



← → ↻ 🏠 ⓘ localhost/Program20Form.php

User Id:

Password:



← → ↻ 🏠 ⓘ localhost/login.php

Logged in successfully

27. JSON File for Hotel 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
      },
      {
        "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

```
{
  "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

```
{
  "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

use Illuminate\Support\Facades\Route;

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

?>
```

View

headfoot.blade.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">
```

```

<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

```
@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/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/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>
                    </div>
                </a>
            </div>
        </div>
    </div>
</div>
```



```

        </div>
        </a>
    </div>
</div>
<div class="col-md-4">
<div class="thumbnail">
    <a href="/diet" >
        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/Training.jpg">

            img/Yoga.jpg">

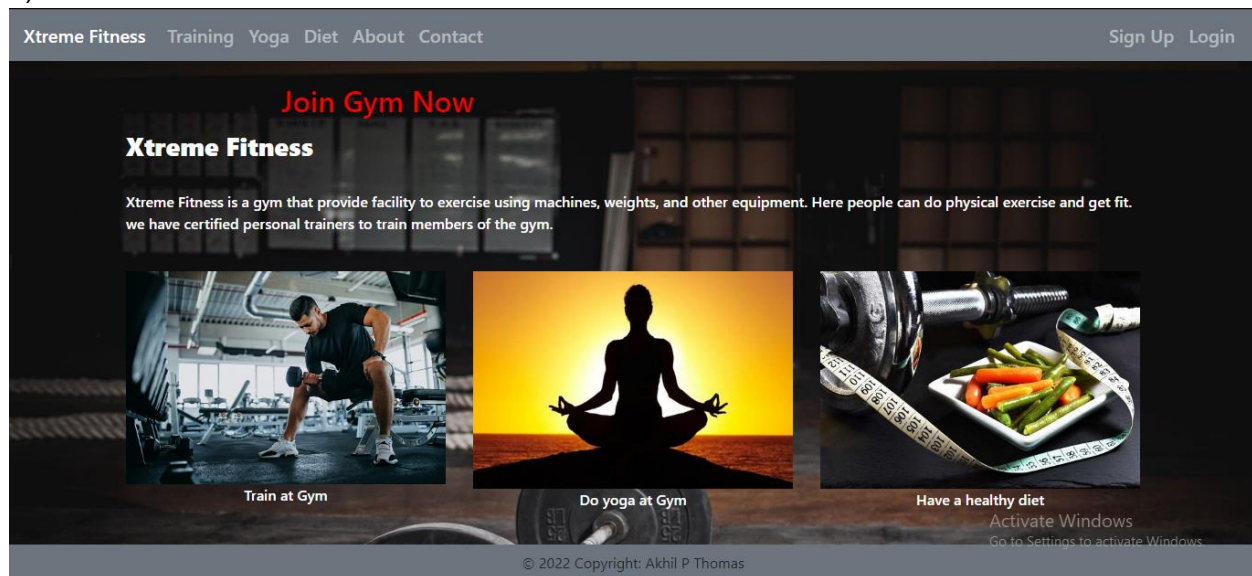
            img/Diet.jpg">
        </li>
    </ul>
</div> -->

```

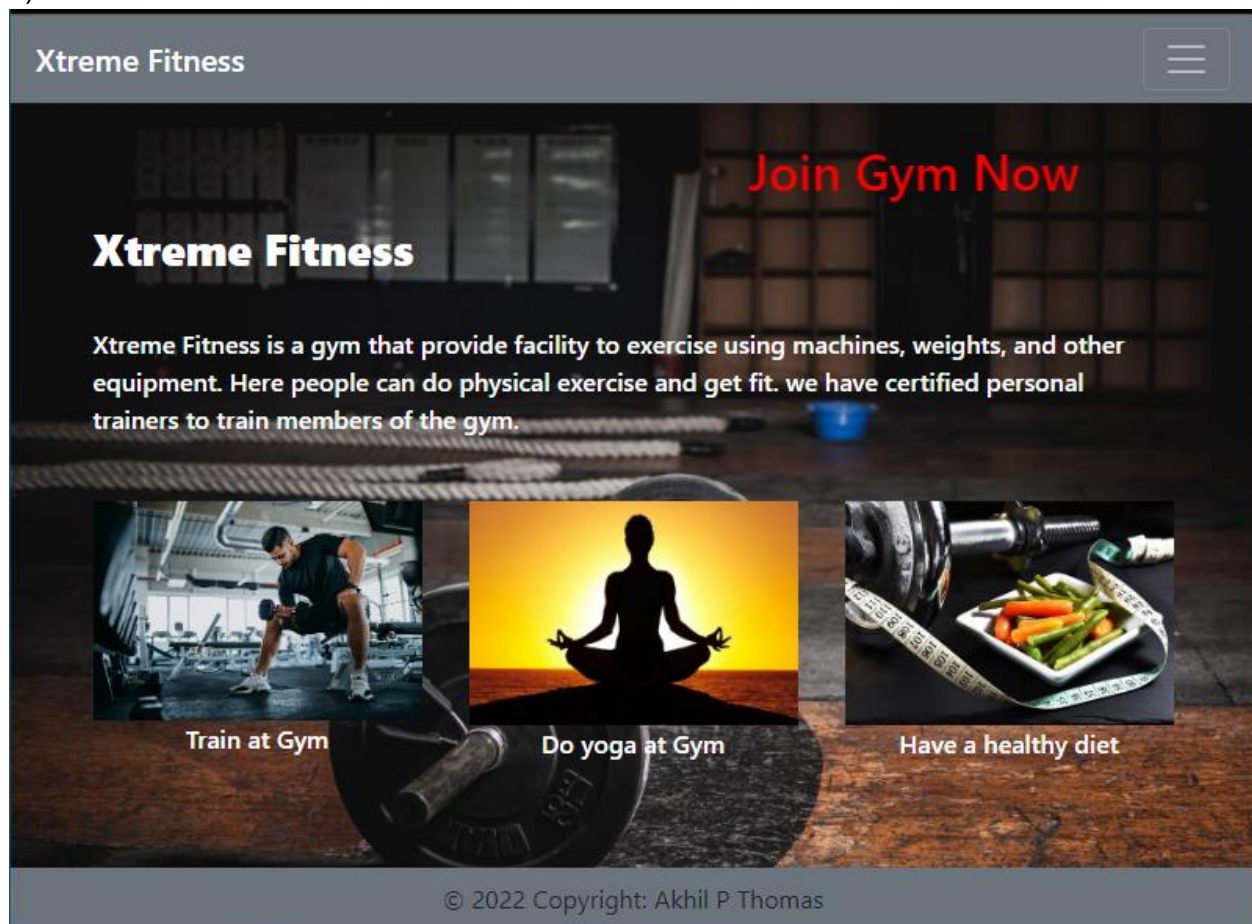
@endsection

Output

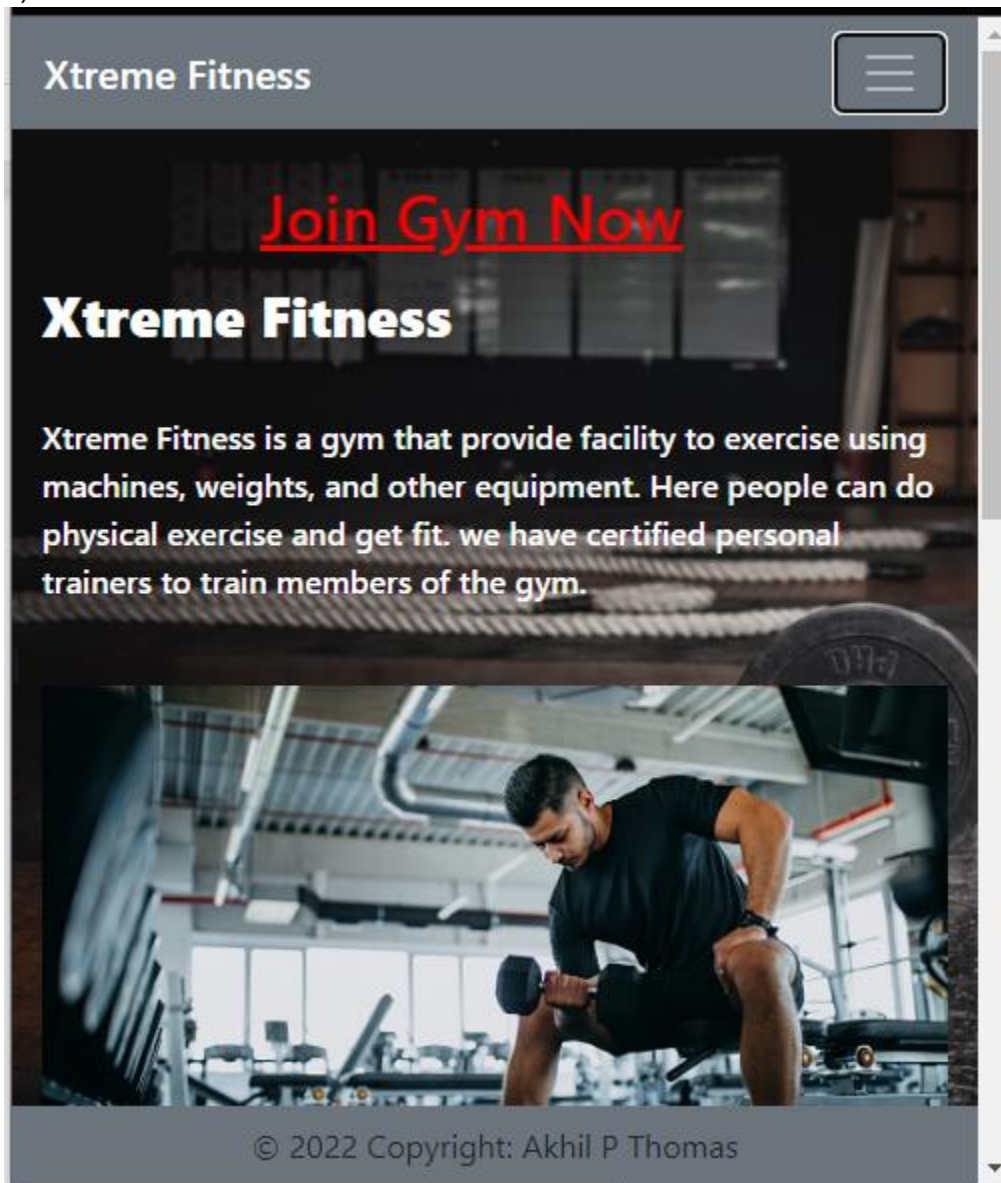
1) Full screen view



2) Minimized view



3) Mobile view



31. Program to illustrate simple Laravel web application

Welcome.php

```
<!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%);
```

```

    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;
}

```

```

.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;
}

```

```

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;
}

```

```

}
.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"),
wlcon = 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;

```

```

    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){
            wlcon.src = "icons/clear.svg";
        }else if(id >= 200 && id <= 232){
            wlcon.src = "icons/storm.svg";
        }else if(id >= 600 && id <= 622){
            wlcon.src = "icons/snow.svg";
        }else if(id >= 701 && id <= 781){
            wlcon.src = "icon.jpg";
        }else if(id >= 801 && id <= 804){
            wlcon.src = "icon.jpg";
        }else if((id >= 500 && id <= 531) || (id >= 300 && id <= 321)){
            wlcon.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">
        
        <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">

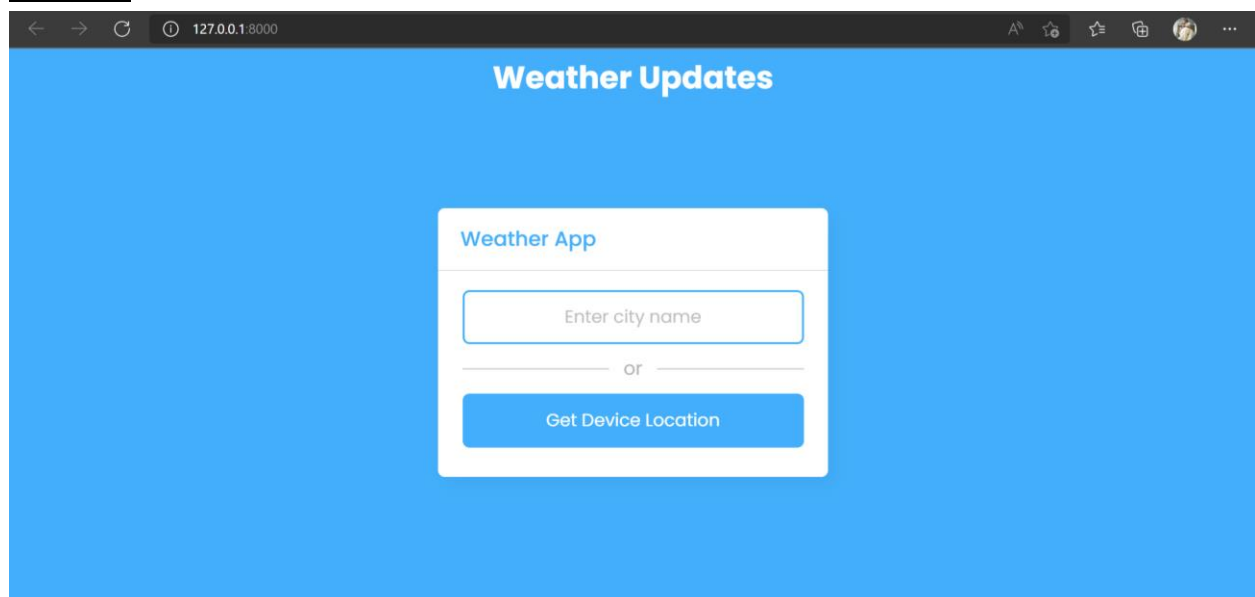
```

```

        <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

use Illuminate\Support\Facades\Route;

Auth::routes();

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

Controller

```
<?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">
```

```

        <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>
@endsection
```

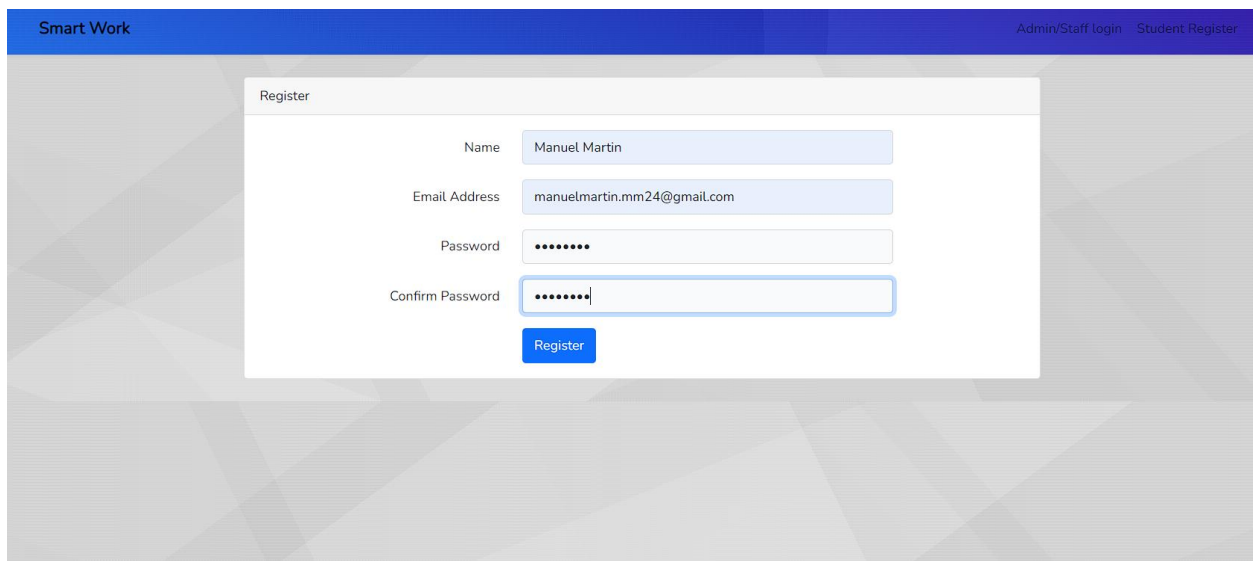
index.blade

```
@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



The screenshot displays a web application interface. At the top, there is a blue header bar with the text 'Smart Work' on the left and 'Admin/Staff login' and 'Student Register' on the right. Below the header, a white registration form is centered on a grey background. The form is titled 'Register' and contains four input fields: 'Name' with the value 'Manuel Martin', 'Email Address' with the value 'manuelmartin.mm24@gmail.com', 'Password' with masked characters '.....', and 'Confirm Password' with masked characters '.....'. A blue 'Register' button is located at the bottom of the form.

Smart Work Admin/Staff login Student Register

Register

Name

Email Address ⓘ
The email has already been taken.

Password ⓘ
The password confirmation does not match.

Confirm Password

[Register](#)

Smart Work Admin/Staff login Student Register

Register

Name

Email Address

Password ⓘ
The password must be at least 8 characters.

Confirm Password

[Register](#)

Smart Work LOGOUT Material	
Welcome Joy JK	
Subject	Java programming
Assignments	Algorithmm
Dropdown	c++

33. Create a simple Laravel Web Application with Login Form

web.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

```
@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>
        <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">
        
    </div>
</div>
</div>
</div>

<div class="cat">

<div class="sc">

<div class="row">

```

```

<div class="c3">
  
</div>

<div class="c3">
  
</div>

<div class="c3">
  <a href="prod2"><a>
</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">

</div>
<div class="c2">
<div class="form-container2">
@if(isset($err))
<p style="margin-right:33px;color:red;">{{$err}}</p>
@endif
<div class="a">  </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>

```

```

<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">
```

```

```

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

```
<div class="c2">
```

```
<div style="width:300px;" >
```

```
<div class="slide" style="margin-right: 220px;width:300px;">  </div>
```

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

```
@csrf
```

```
<br><br>
```

```
<table >
```

```
<tr>
```

```

        <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>

```

```

<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
```

```
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()
```

```
{
```



```

    //
}

/**
 * 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.
 *

```

```

* @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

CITY

EMAIL

PASSWORD

CONFIRM

PASSWORD

Register

Social Media: Instagram

Contact Us: mtech.mt@gmail.com

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

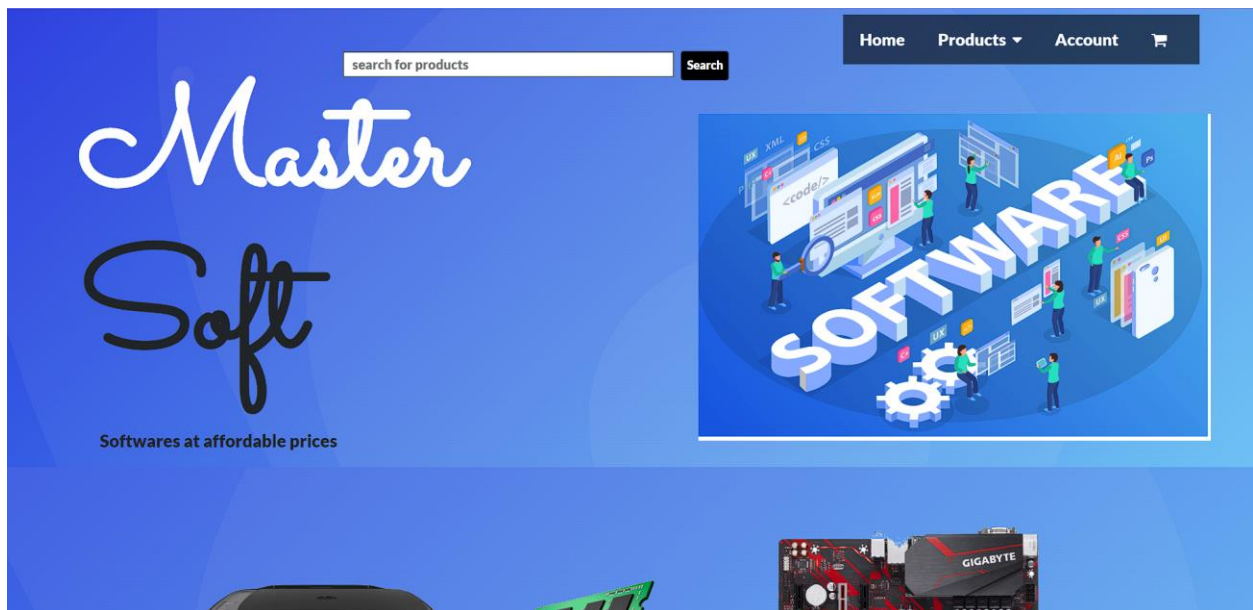
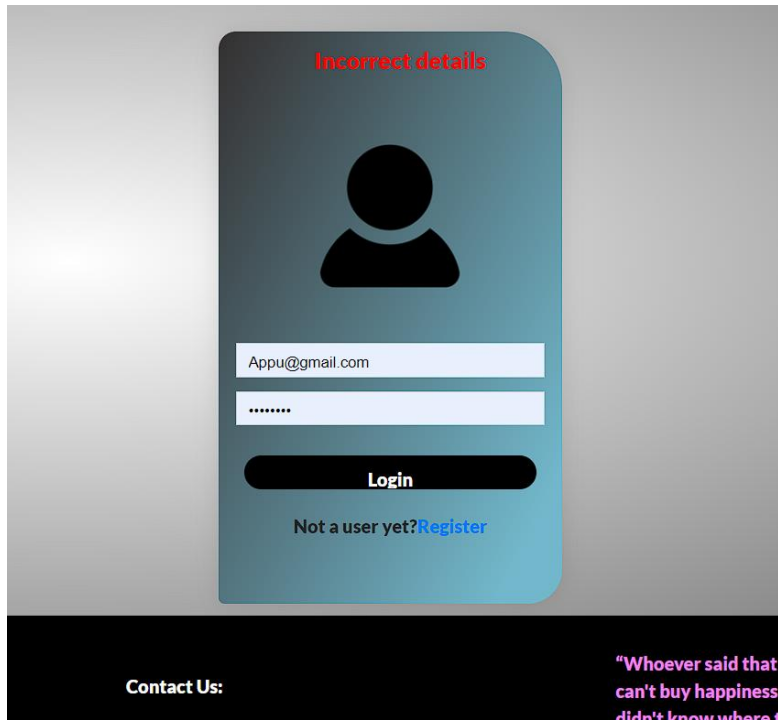
.....

Login

Not a user yet?[Register](#)

Contact Us:

"Whoever said that mo
can't buy happiness, si



34. Implement sessions handling in Laravel web application

web.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
```

```
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

← → ↻ ⓘ 127.0.0.1:8000/session/get

Virat Gandhi

← → ↻ ⓘ 127.0.0.1:8000/session/set

Data has been added to session

← → ↻ ⓘ 127.0.0.1:8000/session/remove

Data has been removed from session.

35. Create a simple database application using Laravel

Migrations

<?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

```
namespace App\Http\Controllers;

use Illuminate\Http\Request;

class Testimonial extends Controller
{
```



```

/**
 * 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.
 *

```

```

    * @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
```

```
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

```

```

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 byNibin Benny

36. Laravel Program to execute Database CRUD Operations

web.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
```

```
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'
        ]);
    }
}
```

```

    });

    $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

HomeNew

[Prime](#)
Price : 1775
[Edit](#)

[Glitchpop](#)
Price : 2175
[Edit](#)

[Elderflame](#)
Price : 2475
[Edit](#)

[Reaver](#)

Skins - CRUD

HomeNew

NEW

Spectrum

2675

Save

[Glitchpop](#)

Price : 2175

[Edit](#)

[Elderflame](#)

Price : 2475

[Edit](#)

[Reaver](#)

Price : 1775

[Edit](#)

[Spectrum](#)

Price : 2675

[Edit](#)

EDIT

[Glitchpop](#)

Price : 2175

[Elderflame](#)

Price : 2475

[Reaver](#)

Price : 2000

[Spectrum](#)

Price : 2675

Reaver

Price : 2000

Delete

127.0.0.1:8000 says
Delete Skin?

OK

Cancel

Reaver

Price : 2000

Delete

[Prime](#)

Price : 1775

Edit

[Glitchpop](#)

Price : 2175

Edit

[Elderflame](#)

Price : 2475

Edit

[Spectrum](#)

Price : 2675

Edit