

**ANNAMALAIAR COLLEGE OF ENGINEERING**  
**Mudaiyur-606902**



**DEPARTMENT OF** \_\_\_\_\_

**IT3401 – WEB ESSENTIALS**

**Name** .....

**Roll No** ..... **Register No** .....

**Year** ..... **Semester** .....



**Register No.:** \_\_\_\_\_

## **BONAFIDE CERTIFICATE**

Certified to be the bonafide record work done by  
Mr. / Ms. .... of .....Semester,  
B.E./B.TECH ..... in the **IT3401 – WEB  
ESSENTIALS** practical course during the academic year 2024 – 2025.

**Faculty in-Charge**

**Head of the Department**

Submitted for the Anna University Practical Examination held on  
..... at Annamalaiar College of Engineering, Modaiyur.

**Internal Examiner**

**External Examiner**



**Ex.No: 1a**

## **CREATION OF INTERACTIVE WEB SITES – DESIGN USING HTML AND AUTHORIZING TOOLS**

**Aim :**

To creation of interactive web sites – Design using HTML and authoring tools

**Program:**

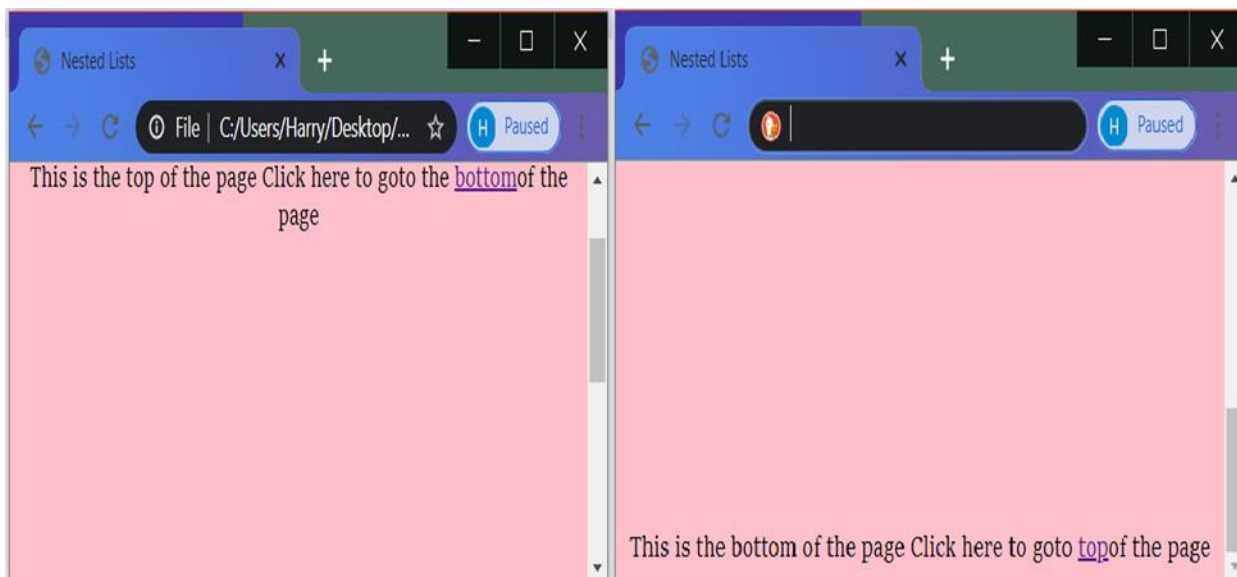
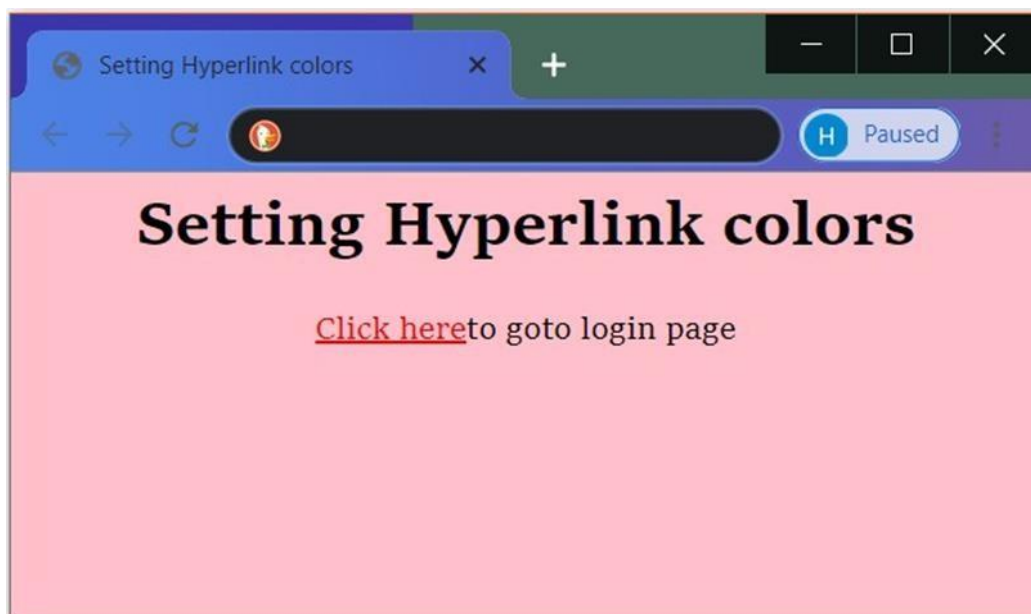
### **Navigation from one page to another**

```
<html>
<head>
<title>Setting Hyperlink colors</title>
</head>
<body bgcolor="pink" link="green" vlink="blue" alink="red">
<center><h1>Setting Hyperlink colors</h1>
<a href="login.html">Click here</a>to goto login page
</body>
</html>
```

### **Navigation within the page:**

```
<html>
  <head>
    <title>Nested Lists</title>
  </head>
  <body bgcolor="pink">
    <center><h1>Linking to a section in a page</h1>
    <a name="top">This is the top of the page</a>
    Click here to goto the <a target="#bottom">bottom</a>of the page
    <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
    <br><br><br><br><br>
    <a name="bottom">This is the bottom of the
    page</a> Clickhere to goto <a
    target="#top">top</a>of the page
  </center>
</body>
</html>
```

**Output:**



**Result :** Thus the program has been completed successfully

**Ex.No: 1b**

## **HTML PROGRAM TO DEVELOP A STATIC REGISTRATION FORM.**

**Aim :**

HTML program to develop a static Registration Form.

**Program:**

```
<html>

<head>
  <title>Registration</title>
</head>
<body bgcolor=lightblue>
  <h1 align=center><u>Registration Form</u></h1>
  <br><br><br>
  <div>
    <strong>
      First Name &nbsp;<input type=text value=" "
      name="txt1"><br><br>Last Name &nbsp;<input type=text
      value=" " name="txt2"><br><br>UserName &nbsp;<input
      type=text value="" name="txt3"><br><br>Password &nbsp;<input
      type=password value="" name="pwd1"><br>
      Confirm Password &nbsp;<input type=password value=""
      name="pwd2"><br><br>Address &nbsp;<textarea rows=3
      cols=60></textarea><br><br>
      Date of Birth
      &nbsp;<br>
      dd<select
      name="sel1">
        <option>--</option>
        <option>01</option>
        <option>02</option>
        <option>03</option>
        <option>04</option>
        <option>05</option>
        <option>27</option>
        <option>28</option>
        <option>29</option>
        <option>30</option>
        <option>31</option>
      </select>
      mm<select name="sel2">
        <option>--</option>
        <option>01</option>
        <option>02</option>
        <option>03</option>
        <option>04</option>
```

```

<option>05</option>
<option>06</option>
<option>07</option>
<option>08</option>
<option>09</option>
<option>10</option>
<option>11</option>
    <option>12</option>
</select>
yyyy<select name="sel3">
    <option>--- </option>
        <option>1987</option><option>1988</option>
        <option>1989</option><option>1990</option>
        <option>1991</option><option>1992</option>
        <option>1993</option><option>1994</option>
        <option>1995</option><option>1996</option>
        <option>1997</option><option>1998</option>
        <option>1999</option><option>2000</option>
        <option>2001</option><option>2002</option>
        <option>2003</option><option>2004</option>
        <option>2005</option><option>2006</option>
        <option>2007</option><option>2008</option>
        <option>2009</option><option>2010</option>
        <option>2011</option><option>2012</option>
        <option>2013</option><option>2014</option>
        <option>2015</option><option>2016</option>
        <option>2017</option>
    </select><br><br>Sex &nbsp;
    <input name="rb1" type="radio" value="radiobutton">Male
    <input name="rb1" type="radio" value="radiobutton">Female
    <br><br>
    Martial Status &nbsp;
    <input name="rb2" type="radio" value="radiobutton">Single
    <input name="rb2" type="radio" value="radiobutton">Married
    <br><br>
    Mobile Number &nbsp;<input type="text"
    name="txt4"><br><br>Branch &nbsp;
    <input name="rb3" type="radio" value="radiobutton">CSE
    <input name="rb3" type="radio" value="radiobutton">IT
    <input name="rb3" type="radio" value="radiobutton">ECE
    <input name="rb3" type="radio" value="radiobutton">EEE
    <input name="rb3" type="radio" value="radiobutton">MECH
    <br><br>
    Languages Known &nbsp;
    <input name="cb1" type="checkbox" value="checkbox">English
    <input name="cb1" type="checkbox" value="checkbox">Telugu

```

```

<input name="cb1" type="checkbox" value="checkbox">Hindi
<input name="cb1" type="checkbox" value="checkbox">Kannada
<input name="cb1" type="checkbox" value="checkbox">Tamil
<br><br>
<center>
  <input type="submit" value="SUBMIT" name="btn1">&nbsp;
  <input type="reset" value="CANCEL" name="btn1">
</center>
</strong>
</body>
</html>

```

**Output:**

The screenshot shows a Microsoft Internet Explorer window with the title 'Registration - Microsoft Internet Explorer'. The address bar shows 'E:\html\registration.html'. The form is titled 'Registration Form' and contains the following fields and options:

- First Name:
- Last Name:
- UserName:
- Password:
- Confirm Password:
- Address:
- Date of Birth: dd - , mm - , yyyy -
- Sex: ☐ Male ☐ Female
- Marital Status: ☐ Single ☐ Married
- Mobile Number:
- Branch: ☐ CSE ☐ IT ☐ ECE ☐ EEE ☐ MECH
- Languages Known: ☐ English ☐ Telugu ☐ Hindi ☐ Kannada ☐ Tamil

At the bottom of the form are two buttons: 'SUBMIT' and 'CANCEL'.

**Result:**

Thus the program has been completed successfully



<b>Ex.No: 1c</b>
<b>HTML PROGRAM TO DEVELOP A STATIC LOGIN PAGE</b>

<b>Ex.No: 1c</b>
<b>HTML PROGRAM TO DEVELOP A STATIC LOGIN PAGE</b>

**Aim :**

HTML program to develop a static Registration Form.

**Program:**

```
<html>
<head>
  <title>login</title>
</head>
<body>
  <br><br><br><br>
  <h1 align=center><u>LOGIN</u></h1>
  <br><br><br>
  <h4>
    <center>
      username&nbsp;&nbsp;&nbsp;<input type=text><br>
      password&nbsp;&nbsp;&nbsp;<input
      type=password><br><br><br>
    </h4>
    <input type=submit
    value=submit>
    &nbsp;&nbsp;&nbsp;
    <input type=reset value=cancel>
  </center>
</body>
</html>
```

**Output:**



**Result :** Thus the program has been completed successfully

**Ex.No: 2a**

## **FORM VALIDATION USING JAVA SCRIPT**

**Aim:**

Program for form validation using JavaScript

**Program:**

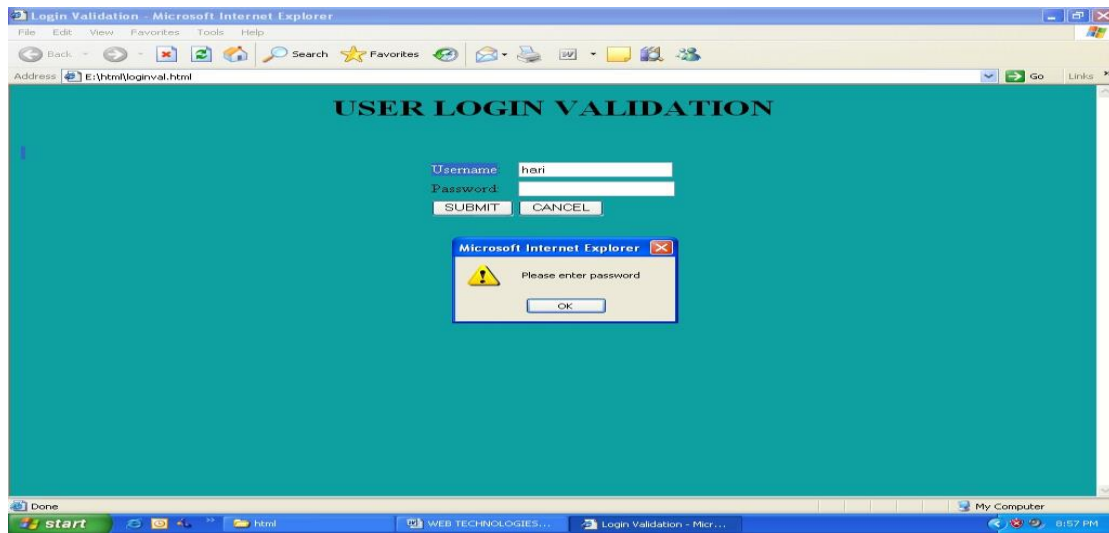
```
<html>
<head>
<title>Login Validation</title>
<script
  language="javascr
pt">function
formValidator()
{
  var
  username=document.getElementById('una
me');var
  password=document.getElementById('pw
d');
  if(isEmpty(username)&&isEmpty(passwo
rd))
  {
    alert("enter something");
    document.form1.uname.focus();
  }
  if(!isEmpty(username)&&isEmpty(password)&&isAlphabet(username))
  {
    alert("Please enter
password");
    document.form1.pwd.
focus();
  }
  if(!isEmpty(username)&&!isEmpty(password)&&isAlphabet(username))
  {
    return true;
  }
  else
  {
    if(!isEmpty(username)&&!isEmpty(password)&&!isAlphabet(username))
    {
      alert("Please Enter only alphabets for
username");
      document.form1.uname.focus();
    }
  }
  return false;
}
```

```

    }
    function isEmpty(elem)
    {
        if(elem.value.length==0)
        {
            return true;
        }
        return false;
    }
    function isAlphabet(elem)
    {
        var alphaExp=/^[a-z
        A-Z]+$/;
        if(elem.value.match(al
        phaExp))
        {
            return true;
        }
    }
</script>
</head>
<body bgColor=megastar>
<h1 align=center>USER LOGIN VALIDATION</h1>
<br><br>
<form name="form1" onSubmit="return formValidator()">
    <center>
        <table border=0 colsSpacing=4>
            <tr>
                <td>Username:</td>
                <td><input type=text value="" name="uname"></td>
            </tr>
            <tr>
                <td>Password:</td>
                <td><input type=password value="" name="pwd"></td>
            </tr>
            <tr>
                <td><input type=submit value="SUBMIT" name="btn1"></td>
                <td><input type=reset value="CANCEL" name="btn2"></td>
            </tr>
        </table>
    </center>
</form>
</body>
</html>

```

**Output:**



**Result :** Thus the program has been completed successfully

**Ex.No: 2b**

## **FORM VALIDATION USING JAVA SCRIPT**

**Aim:**

Program for form validation using JavaScript

**Program:**

```
<html>
<head>
<title>JavaScript sample registration from validation </title>
<script
type='text/javascript'
>function
formValidation()
{
var uid =
document.form1.userid; var
passid =
document.form1.passid;
var uname =
document.form1.username;var
uadd =
document.form1.address;
var uzip = document.form1.zip;
var uemail =
document.form1.email;var
umsex =
document.form1.msex;var
ufsex =
document.form1.fsex;
if(userid_validation(uid,5,1
2))
{
if(userid_validation(passid,7,12))
{
if(allLetter(uname))
{
if(alphanumeric(uadd))
{
if(allnumeric(uzip))
{
if(ValidateEmail(uemail))
{
if(validsex(umsex,ufsex))
{
}
}
}
}
}
}
}
}
```

```

    }
    }
    }
    }
    return false;
  } function userid_validation(uid,mx,my)
  {
    var uid_len = uid.value.length;
    if (uid_len == 0 || uid_len >= my || uid_len < mx)
    {
      alert("It should not be empty / length be between "+mx+"
to "+my);uid.focus();
      return false;
    }
    return true;
  }
  function allLetter(uname)
  {
    var letters = /^[A-Za-z]+$/;
    if(uname.value.match(letter
s))
    {
      return true;
    }
    else
    {
      alert('Please input alphabet
characters only');uname.focus();
      return false;
    }
  }
  function alphanumeric(uadd)
  {
    var letters = /^[0-9a-
zA-Z]+$/;
    if(uadd.value.match(l
etters))
    {
      return true;
    }
    else
    {
      alert('Please input alphanumeric
characters only');uadd.focus();
      return false;
    }
  }

```

```

    }
    function allnumeric(uzip)
    {
        var numbers = /^[0-9]+$/;
        if(uzip.value.match(number
s))
        {
            return true;
        }
        else
        {
            alert('Please input numeric
characters only');uzip.focus();
            return true;
        }
    }

    function ValidateEmail(uemail)
    {
        var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-
]?\\w+)*\\.\\w{2,3}$/;if(uemail.value.match(mailformat))
        {
            return true;
        }
        else
        {
            alert("You have entered an invalid email
address!");uemail.focus();
            return false;
        }
    }
    function validsex(umsex,ufsex)
    {
        x=0;
        if(umsex.checked)
        {
            x++;
        }
        if(ufsex.checked)
        {
            x++;
        }
        if(x==0)
        {
            alert('Select
Male/Female');
            umsex.focus();

```

```

return false;
else
{
return true;
}
}

</script>
</head>
<body>
<form name='form1' onsubmit='return formValidation()' >
<table width="500" cellpadding="3" style="border-collapse: collapse;">
<tr>
<td>User id </td>
<td><input type="text" name="userid" size="12" /></td>
</tr>
<tr>
<td>Password</td>
<td><input type="password" name="passid" size="12" /></td>
</tr>
<tr>
<td>Name</td>
<td><input type="text" name="username" size="50" /></td>
</tr>
<tr>
<td>Address</td>
<td><input type="text" name="address" size="50" /></td>
</tr>
<tr>
<td>ZIP Code </td>
<td><input type="text" name="zip" /></td>
</tr>
<tr>
<td>Email</td>
<td><input type="text" name="email" size="50" /></td>
</tr>
<tr>
<td>Sex</td>
<td><input type="radio" name="msex" value="Male" /> Male
<input type="radio" name="fsex" value="Female" /> Female</td>
</tr>
<tr>
<td>Language preference</td>
<td><input type="checkbox" name="en" value="en" checked />English
<input type="checkbox" name="nonen" value="noen" />Non English</td>
</tr>

```

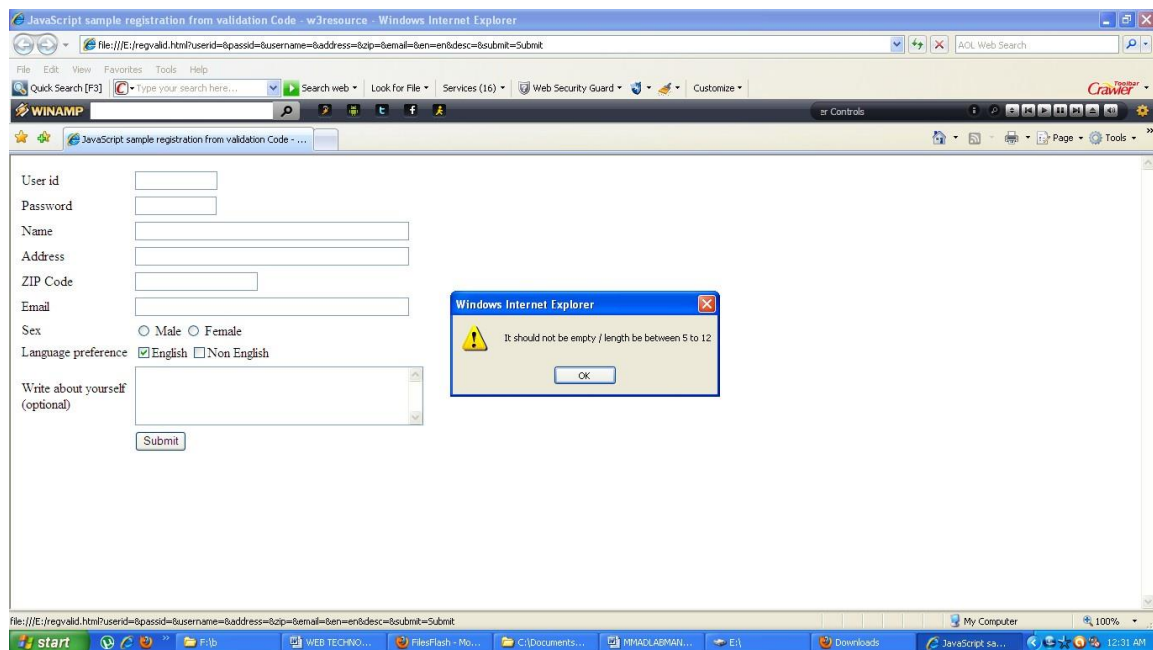


```

<tr>
<td>Write about
yourself<br>
(optional)</td>
<td><textarea name="desc" rows="4" cols="40"></textarea></td>
</tr>
<tr>
<td>&nbsp;</td>
<td><input type="submit" name="submit" value="Submit" /></td>
<td>&nbsp;</td>
</tr>
</table>
</form>
</body>
</html>

```

**Output:**



**Result :** Thus the program has been completed successfully

**Aim:**

Program for form validation using JavaScript

**Program:**

```
<!DOCTYPE html>
<html>
<body>
<h1>My first PHP page</h1>
<?php
echo "Hello World!";
?>
</body>
</html>
```

**Variables**

```
<?php
$txt = "Hello world!";
$x = 5;
$y = 10.5;
?>
```

**Echo/print**

```
<?php
echo "<h2>PHP is Fun!</h2>";
echo "Hello world!<br>";
echo "I'm about to learn PHP!<br>";
echo "This ", "string ", "was ", "made ", "with multiple parameters.";
?>
```

**Data Types**

```
<?php
$x = "Hello world!";
$y = 'Hello world!';

echo $x;
echo "<br>";
```

```
echo $y;  
?>
```

```
<?php  
echo strlen("Hello world!"); // outputs 12  
?>
```

```
<?php  
$x = 5985;  
var_dump(is_int($x));
```

```
$x = 59.85;  
var_dump(is_int($x));  
?>
```

## IF-ELSE

```
<?php  
$t = date("H");  
  
if ($t < "20") {  
    echo "Have a good day!";  
}  
?>
```

## SWITCH CASE

```
<?php  
$favcolor = "red";  
  
switch ($favcolor) {  
    case "red":  
        echo "Your favorite color is red!";  
        break;  
    case "blue":  
        echo "Your favorite color is blue!";  
        break;  
    case "green":  
        echo "Your favorite color is green!";  
}
```

```
    break;
default:
    echo "Your favorite color is neither red, blue, nor green!";
}
?>
```

## WHILE

```
<?php
$x = 1;

while($x <= 5) {
    echo "The number is: $x <br>";
    $x++;
}
?>
```

## DO-WHILE

```
<?php
$x = 1;

do {
    echo "The number is: $x <br>";
    $x++;
} while ($x <= 5);
?>
```

## FOR LOOP

```
<?php
$x = 1;

do {
    echo "The number is: $x <br>";
    $x++;
} while ($x <= 5);
?>
```

## FOR-EACH

```
<?php
$colors = array("red", "green", "blue", "yellow");
```

```
foreach ($colors as $value) {
    echo "$value <br>";
}
?>
```

## FUNCTIONS

```
<?php
function writeMsg() {
    echo "Hello world!";
}
```

```
writeMsg(); // call the function
?>
```

## ARRAYS

```
<?php
$cars = array("Volvo", "BMW", "Toyota");
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
?>
```

## FORM VALIDATION

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

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

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);
        // check if name only contains letters and whitespace
```

```

    if (!preg_match("/^[a-zA-Z-']*$/", $name)) {
        $nameErr = "Only letters and white space allowed";
    }
}

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

if (empty($_POST["website"])) {
    $website = "";
} else {
    $website = test_input($_POST["website"]);
    // check if URL address syntax is valid (this regular expression also allows dashes in the URL)
    if (!preg_match("/\b(?:https?|ftp):\/\/|www\.[a-z0-9+&@#/%?=_!~.:,]*[a-z0-9+&@#/%?=_!~.:,]/i", $website)) {
        $websiteErr = "Invalid URL";
    }
}

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

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

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

```

```

<h2>PHP Form Validation Example</h2>
<p><span class="error">* required field</span></p>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
  Name: <input type="text" name="name" value="<?php echo $name;?>">
  <span class="error">* <?php echo $nameErr;?></span>
  <br><br>
  E-mail: <input type="text" name="email" value="<?php echo $email;?>">
  <span class="error">* <?php echo $emailErr;?></span>
  <br><br>
  Website: <input type="text" name="website" value="<?php echo $website;?>">
  <span class="error"><?php echo $websiteErr;?></span>
  <br><br>
  Comment: <textarea name="comment" rows="5" cols="40"><?php echo $comment;?></textare
ea>
  <br><br>
  Gender:
  <input type="radio" name="gender" <?php if (isset($gender) &&
$gender=="female") echo "checked";?> value="female">Female
  <input type="radio" name="gender" <?php if (isset($gender) &&
$gender=="male") echo "checked";?> value="male">Male
  <input type="radio" name="gender" <?php if (isset($gender) &&
$gender=="other") echo "checked";?> value="other">Other
  <span class="error">* <?php echo $genderErr;?></span>
  <br><br>
  <input type="submit" name="submit" value="Submit">
</form>

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

</body>
</html>

```

**Result :** Thus the program has been completed successfully

**Ex.No: 4****HANDLING MULTIMEDIA CONTENT IN WEB SITES****Aim:**

Handling Multimedia Content in Websites

**Program:****AUDIO HANDLING**

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

<audio controls>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
  Your browser does not support the audio element.
</audio>

</body>
</html>
```

**VIDEO HANDLING**

```
<!DOCTYPE html>
<html>
<body>
<video width="320" height="240" controls>
  <source src="movie.mp4" type="video/mp4">
  <source src="movie.ogg" type="video/ogg">
  Your browser does not support the video tag.
</video>
</body>
</html>
```

**Result :** Thus the program has been completed successfully



**Aim:**

Programs using Servlets

**Program:**

programs using Servlets:

- i. To invoke servlets from HTML forms
- ii. Session tracking using hidden form fields and Session tracking for a hit count

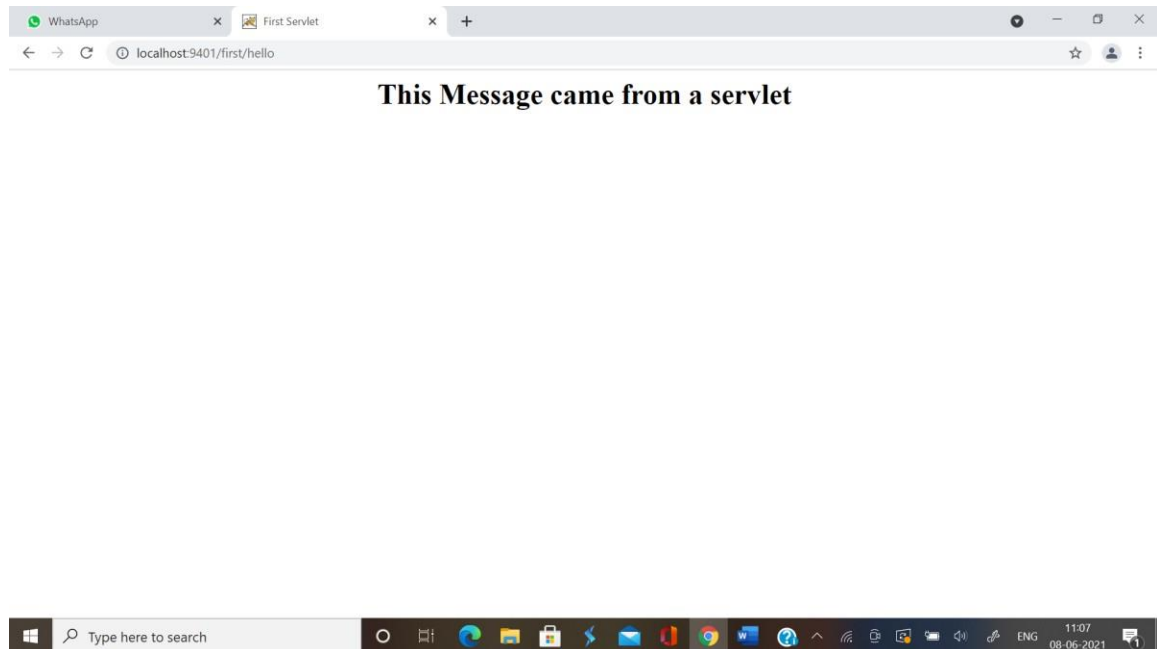
**1. Write a simple servlet that displays a message.FirstServlet.java:**

```
import
java.io.*;
import
javax.servlet.
*;
public class FirstServlet extends GenericServlet{
    public void service(ServletRequest req,ServletResponse
        res)throws ServletException,IOException{
        res.setContentType("text/html");PrintWriter
        pw=res.getWriter();
        pw.println("<html><head><title>First Servlet</title></head>");
        pw.println("<body><center><h1>This Message came
            from a
servlet</h1>");
        pw.println("</center></body></html>
");pw.close();
    }
}
```

**Web.xml:**

```
<web-app>
    <servlet>
        <servlet-name>abc</servlet-name>
        <servlet-class>FirstServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>abc</servlet-name>
        <url-pattern>/hello</url-pattern>
    </servlet-mapping>
</web-app>
```

## Output:



## 2. Write a servlet that reads parameters from employee login page.

### Index.html:

```
<html>
<head>
<title>Servlet Parameters</title>
</head>
<body>
<center>
<form name="form1" method="POST" action="http://localhost:9401/rpar/rparam">
<table>
<tr>value=""></td>
</tr>
<tr>
</tr>
<tr>
</tr>
</table>
</form><td><b>Employee</b></td>
<td><input type="text" name="ename"
<td><b>Id</b></td>
<td><input type="text" name="id" value=""></td>
<td><input type="submit" value="submit"></td>
<td><input type="reset" value="clear"></td>
```

```
</center>
</body>
</html>
```

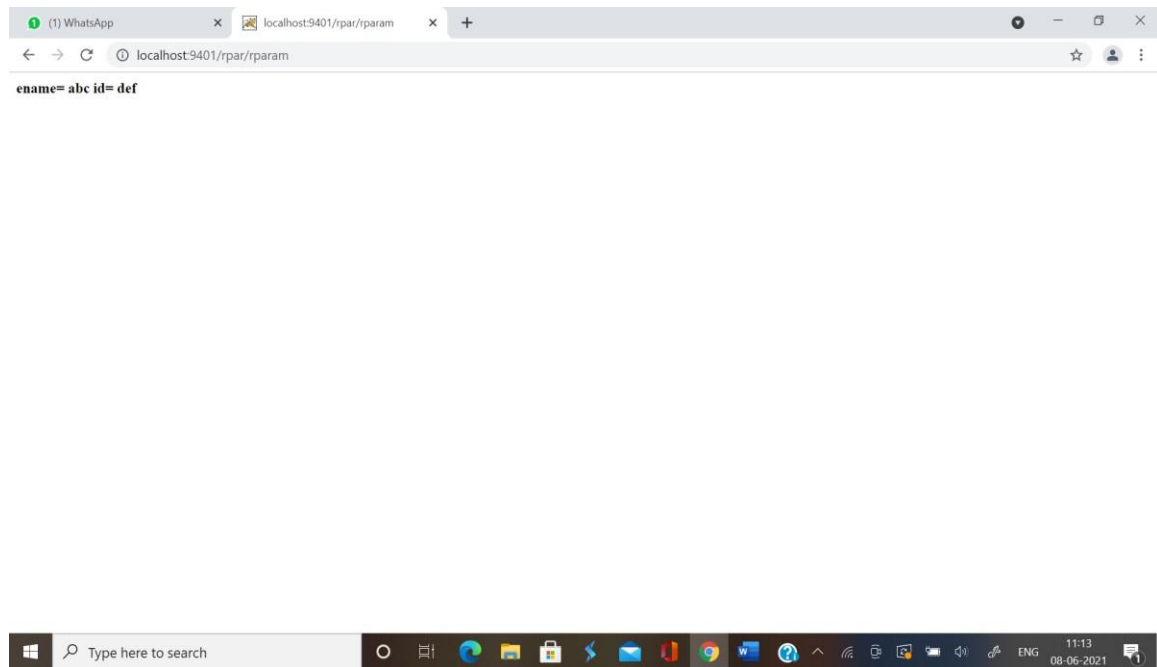
**Rparam.java:**

```
import java.io.*; import java.util.*; import
javax.servlet.*;
public class Rparam extends GenericServlet{
    public void service(ServletRequest req,ServletResponse
        res)throwsServletException,IOException{
        res.setContentType("text/html");
        PrintWriter pw=res.getWriter();
        Enumeration
        e=req.getParameterNames();
        while(e.hasMoreElements()){
            String
            pname=(String)e.nextElement
            ();
            pw.println("<b>" +pname+"="
            );
            String
            pvalue=req.getParameter(pnam
            e);pw.println("<b>" +pvalue);
        }
        pw.close();
    }
}
```

**Web.xml:**

```
<web-app>
    <servlet>
        <servlet-name>rp</servlet-name>
        <servlet-class>Rparam</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>rp</servlet-name>
        <url-pattern>/rparam</url-pattern>
    </servlet-mapping>
</web-app>
```

## Output:



### 3. Write a servlet for creating a cookie and retrieving it.

#### Index.html:

```
<html>
  <head>
    <title> Cookies demo </title>
  </head>
  <body>
    <center>
      <form name="form1" method="POST" action="http://localhost:9401/cook/acook">
        <b>Enter a value for my cookie:
        <input type="text" name="data" size=25 value="">
        <br><input type="submit" value="submit">
      </form>
    </center>
  </body>
</html>
```

#### AddCookieServlet.java:

```
import java.io.*; import
javax.servlet.*;
import javax.servlet.http.*;
public class AddCookieServlet extends HttpServlet
{
    public void doPost (HttpServletRequest req, HttpServletResponse res)
```

```

throws ServletException, IOException
{
    String data=req.getParameter("data");
    Cookie cookie=new
    Cookie("MyCookie",data);
    res.addCookie(cookie);
    PrintWriter pw=res.getWriter();
    pw.println("<br>MyCookie has been
    sent to:");
    pw.println(data);
    pw.close();
}
}

```

#### **GetCookieServlet.java:**

```

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class GetCookieServlet extends HttpServlet
{
    public void doGet (HttpServletRequest req, HttpServletResponse
    res)throws ServletException, IOException
    {
        Cookie[]
        cookies=req.getCookies();
        res.setContentType("text/h
        tml"); PrintWriter
        pw=res.getWriter();
        pw.println("<b>");
        for(int i=0;i<cookies.length;i++)
        {
            String
            name=cookies[i].getName
            ();String
            value=cookies[i].getValue
            ();
            pw.println("name="+name+";value="+value);
        }
        pw.close();
    }
}

```

#### **Web.xml:**

```

<web-app>
    <servlet>
        <servlet-name>ackk</servlet-name>
        <servlet-class>AddCookieServlet</servlet-class>
    </servlet>

```

```

<servlet-mapping>
    <servlet-name>ackk</servlet-name>
    <url-pattern>/acook</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>gck</servlet-name>
    <servlet-class>GetCookieServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>gck</servlet-name>
    <url-pattern>/gcook</url-pattern>
</servlet-mapping>
</web-app>

```

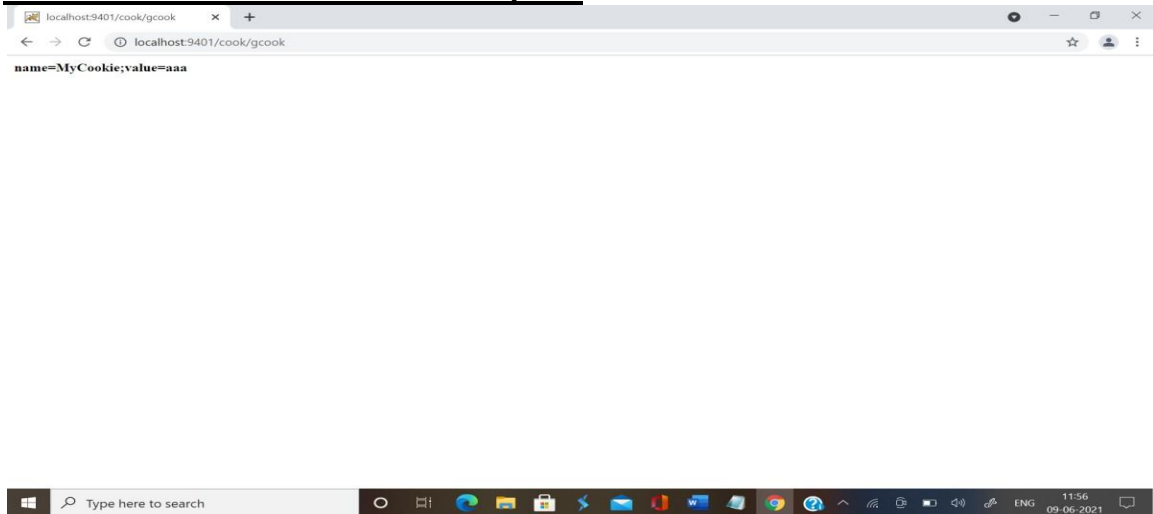
### **Web page that accepts value for my cookie.**



### **Servlet response that creates a cookie and adds it to the response:**



### Servlet that reads the cookie from request.



#### **4. Write a servlet for session tracking.**

##### **DateServlet.java:**

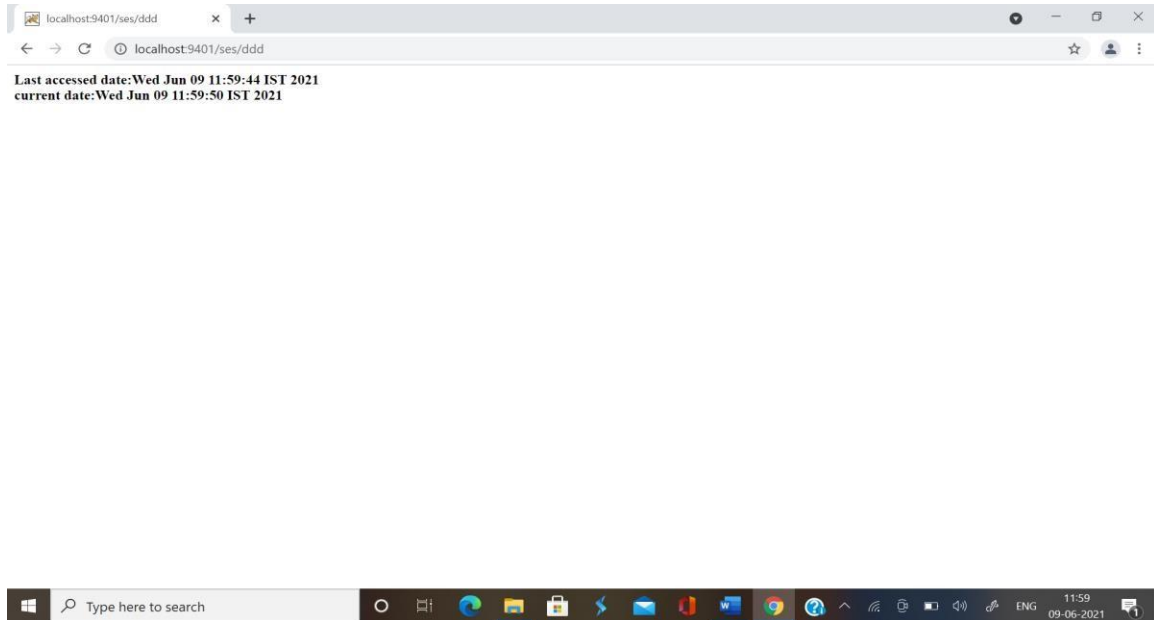
```
import java.io.*; import java.util.*; import
javax.servlet.*;
import javax.servlet.http.*;
public class DateServlet extends HttpServlet{
    public void doGet(HttpServletRequest req,HttpServletResponse
        res)throws ServletException,IOException
    {
        res.setContentType("text/html");
        HttpSession hs=req.getSession(true);
        PrintWriter pw=res.getWriter();
        pw.print("<b>");
        Date d=(Date)hs.getAttribute("date");if(d!=null)
        {
            pw.print("Last accessed date:"+d+"<br>");
        }
        d= new Date();
        hs.setAttribute("date",d);
        pw.print("current date:"+d);
        pw.close();
    }
}
```

##### **Web.xml:**

```
<web-app>
    <servlet>
        <servlet-name>sess</servlet-name>
        <servlet-class>DateServlet</servlet-class>
    </servlet>
    <servlet-mapping>
```

```
<servlet-name>sess</servlet-name>
<url-pattern>/ddd</url-pattern>
</servlet-mapping>
</web-app>
```

### Output:



**Result :** Thus the program has been completed successfully



**Ex.No: 6****CREATION OF INFORMATION RETRIEVAL SYSTEM USING WEB, PHP AND MYSQL****Aim:**

Creation of information retrieval system using web, PHP and MySQL

**Program:**

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// sql to create table
$sql = "CREATE TABLE MyGuests (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
firstname VARCHAR(30) NOT NULL,
lastname VARCHAR(30) NOT NULL,
email VARCHAR(50),
reg_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP
)";

if ($conn->query($sql) === TRUE) {
    echo "Table MyGuests created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}

$conn->close();
?>
```

**Result :** Thus the program has been completed successfully

**Aim:**

Creation of personal Information System

**Procedure:**

Student Information Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Name of the Project: Student Information Management System

**Objectives:**

- ♣ Online registration of students
- ♣ Maintenance of student records
- ♣ Searching student records

**Users Views:**

- ♣ Administrator
- ♣ Student

Platform

Operating Systems: Microsoft Windows

**Technologies Used:**

- ♣ Front End: HTML and Javascript
- ♣ Web designing language: PHP
- ♣ RDBMS(Back end): MySQL

**Software Requirements:**

- ♣ PHP 5.0
- ♣ APACHE HTTP Server
- ♣ Dreamweaver,FrontPage for Front End Programming
- ♣ Microsoft Windows or Linux

**Hardware Requirements:**

- ♣ Intel Pentium IV processor or equivalent or higher
- ♣ 512 MB Ram or Higher
- ♣ 20 GB HDD or Higher
- ♣ Network Connectivity

**SOFTWARE REQUIREMENT SPECIFICATION**

**1. Introduction**

**1.1 Purpose:**

The objective of Student information System is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile .It'll also facilitate keeping all the records of students, such as their id, name, mailing

address, phone number, DOB etc. So all the information about an student will be available in a few seconds.

Overall, it'll make Student Information Management an easier job for the administrator and the student of any organization.

The main purpose of this SRS document is to illustrate the requirements of the project Student information System and is intended to help any organization to maintain and manage its student's personal data.

### **1.2 Scope :**

Without a Student information System, managing and maintaining the details of the student is a tedious job for any organization.

Student Information system will store all the details of the students including their background information, educational qualifications, personal details and all the information related to their resume .

Login module: Login module will help in authentication of user accounts .Users who have valid login id and password can only login into their respective accounts.

Search module: Suppose there are hundreds of students and from this we have to search a particular student and we know the name of the student .In manual system it is a tedious task though we know the name of the student, but using this module we can easily search the student by specifying the name of the student in the search criteria. Thus this module will help the administrator in searching the student with various criteria easily.

Registration Module and Account Management: This module will help the student get registered from anywhere if internet is present .This module will really simplify the task of on paper registration. Also after successful registration the user can update information and change their password as and when required.

User Management: This module will help the administrator in enabling/disabling a user account and updating user information as required.

Purpose of project is to maintain details of the students such as storing information about:

#### **♣ Student id**

- ☐ ♣ Student password
- ☐ ♣ Student name
- ☐ ♣ Student DOB
- ☐ ♣ Student mailing address
- ☐ ♣ Gender
- ☐ ♣ Registration date
- ☐ ♣ Student status
- ☐ ♣ Contact no
- ☐ ♣ Qualification
- ☐ ♣ City
- ☐ ♣ Resume
- ☐ ♣ Image

### **1.3 Definitions, Acronyms and Abbreviations :**

- ☐ ♣ Personal details: Details of student such as user id, phone number, address, image, resume, e-mail address etc.
- ☐ Contact details: Details of contact associated with the student.
- ☐ SRS: System requirement Specification
- ☐ WWW: World Wide Web

☐ Administrator: A Login Id representing the user is an administrator & can access all the records details

#### **1.4 Technologies :**

- ☐ PHP.
- ☐ MYSQL
- ☐ JAVASCRIPT
- ☐ HTML
- ☐ CSS

#### **1.5 Overview:**

The rest of this SRS is organized as follows:

Section 2 gives an overall description of the software. It gives what level of proficiency is expected of the user, some general constraints while making the software.

Section 3 gives specific requirements which the software is expected to deliver. Some performance requirements and constraints are also given and deal with other Non-Functional Requirements.

Section 4 deals with External Interface Requirements like Hardware and Software Interface.

## **2. OVERALL DESCRIPTION**

### **2.1 Product Perspective :**

The website Student Information System is aimed towards recording a considerable number of student records and needs online assistance for managing records of students. Website should be user-friendly, 'quick to learn' and reliable website for the above purpose.

Student Information System is intended to be a stand-alone product and should not depend on the availability of other website. The system will also have an administrator who has full-fledged rights with regards to performing all actions related to control and management of the website.

### **2.2 Product Functions :**

There are two different users who will be using this product:

- ♣ Administrator who can view and edit the details of any students.
- ♣ Students who can view their details as well as they can edit their details.

The features that are available to the Administrator are:

- ♣ An Administrator can login into the system and perform any of the available operations.
- ♣ Can enable/disable student.
- ♣ Can edit student information to the database.
- ♣ Can make search for a specific student.
- ♣ Can access all the details of the student.

The features that are available to the student are:

- ♣ Student can login into the system and can perform any of the available options.
- ♣ Can view his/her personal details.
- ♣ Can edit his/her personal details

♣ Can upload his/her resume.

♣ Can upload his/her image.

### ***2.3 User Classes and Characteristics :***

There are mainly two kinds of users for the product.

The users include:

☐ ♣ Administrator

♣

Student

### ***2.4 Operating Environment :***

The product can run on any browser.

### ***2.5 Constraints :***

☐ ♣ Every user must be comfortable using computer.

☐ ♣ All operations are in English so user must have basic knowledge of English.

Result : Thus the program has been completed successfully