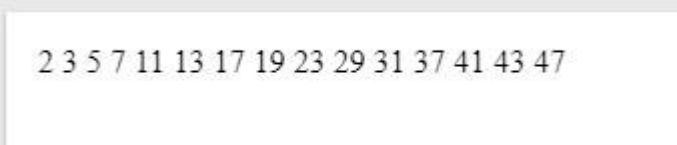


**1. Write a PHP script to print prime numbers between 1-50**

```
<?php
$count = 0;
$num = 2;
while ($count < 15 )
{
    $div_count=0;
    for ( $i=1; $i<=$num; $i++)
    {
        if (($num%$i)==0)
        {
            $div_count++;
        }
    }
    if ($div_count<3)
    {
        echo $num." " , " ";
        $count=$count+1;
    }
    $num=$num+1;
}
?>
```

OUTPUT

**2.a)PHP Script to find the length of a string.**

```
<?php
$str1 = 'Hello world!';
echo strlen($str1);
echo "<br>";

$str2 = ' Hello    world! ';
echo strlen($str2);
?>
```

**OUTPUT:**

**2.b)PHP Script to Count no of words in a string.**

```
<?php
$str = " Geeks for Geeks ";
$len = str_word_count($str);
echo $len;
?>
```

**//output:3**

**2.c)PHP Script to Reverse a string**

```
<?php
function Reverse($str){
    return strrev($str);
}

$str = "G Sravya";
echo Reverse($str)
?>
```

**//output:ayvarS G**

**2.d)PHP Script to Search for a specific string.**

```
<?php
$word = "fox";
$string = "The quick brown fox jumps over the lazy dog";

if(strpos($string, $word) !== false){
    echo "Word Found!";
} else{
    echo "Word Not Found!";
}
?>
```

**//output:Word Found!**

### 3) Write a PHP script to merge two arrays and sort them as numbers, in descending order.

```
<?php
    $a1=array(1,3,15,7,5);
    $a2=array(4,3,20,1,6);
    $num=array_merge($a1,$a2);
    array_multisort($num,SORT_DESC,SORT_NUMERIC);
    print_r($num);
?>
```

```
Array ( [0] => 20 [1] => 15 [2] => 7 [3] => 6 [4] => 5 [5] => 4 [6] => 3 [7] => 3 [8] => 1 [9] => 1 )
```

### 4) Write a PHP script that reads data from one file and write into another file.

```
<!DOCTYPE html>
<html>
<body>
<?php
$myfile = fopen("abc.html", "r") or die("Unable to open file!");
echo fread($myfile,filesize("abc.html"));
fclose($myfile);
?>
</body>
</html>

<html>
<body>
<text align="center"> AJAX = Asynchronous JavaScript and XML<br>
CSS = Cascading Style Sheets<br>
HTML = Hyper Text Markup Language<br>
PHP = PHP Hypertext Preprocessor<br>
SQL = Structured Query Language<br>
SVG = Scalable Vector Graphics<br>
XML = EXtensible Markup Language
</body>
</html>
```

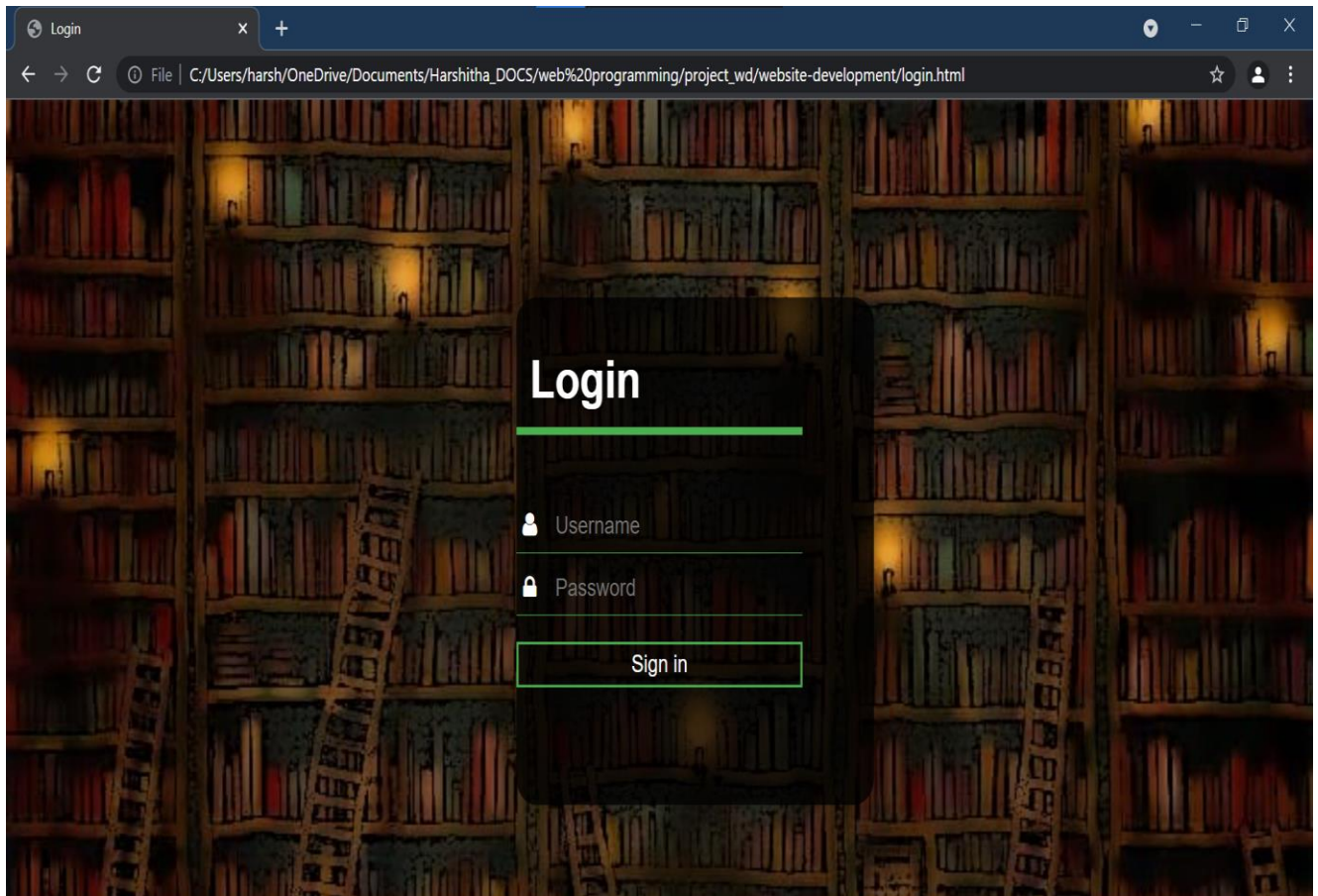
---

```
AJAX = Asynchronous JavaScript and XML
CSS = Cascading Style Sheets
HTML = Hyper Text Markup Language
PHP = PHP Hypertext Preprocessor
SQL = Structured Query Language
SVG = Scalable Vector Graphics
XML = EXtensible Markup Language
```

## 5) Develop static pages for your project

### Login.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Login</title>
    <link rel="stylesheet" href="slogin.css">
  <body>
    <div class="login-box">
      <h1>Login</h1>
      <div class="textbox">
        <i class="fa fa-user" aria-hidden="true"></i>
        <input type="text" placeholder="Username" name="" value="">
      </div>
      <div class="textbox">
        <i class="fa fa-lock" aria-hidden="true"></i>
        <input type="password" placeholder="Password" name="" value="">
      </div>
      <input class="btn" type="button" name="" value="Sign in">
    </div>
  </body>
</head>
</html>
```

**OUTPUT :**

**Genre.html**

```
<html>
<head>
<style>
    body {
        background-image: url("https://thumbs.dreamstime.com/b/fence-painted-turquoise-color-background-texture-fence-
board-painted-turquoise-background-color-139085922.jpg");
    }
</style>
<title>
Coverpage
</title>
<style>
.column {
    float: left;
    width: 32.33%;
    padding: 5px;
}

.row::after {
    content: "";
    clear: both;
    display: table;
}
</style>
</head>
<body>
<h1 style="color:brown;"><center>Categories</center></h1>

<br>
<br>
<br>

<div class="row">
    <div class="column">
        
<h1 style="color:indigo;">Comics</h1>

    </div>

<div class="row">
    <div class="column">
        

<h1 style="color:indigo;">Sci-fi</h1>

    </div>

<div class="row">
    <div class="column">
        

<h1 style="color:indigo;">Art</h1>
```

```
</div>
<div class="row">
  <div class="column">
    

    <h1 style="color:indigo;">Entertainment</h1>

  </div>
  <div class="column">
    
    <h1 style="color:indigo;">Food</h1>

  </div>
</div>
<div class="row">
  <div class="column">
    

    <h1 style="color:indigo;">Fashion</h1>

  </div>
  <div class="column">
    
    <h1 style="color:indigo;">Travel</h1>

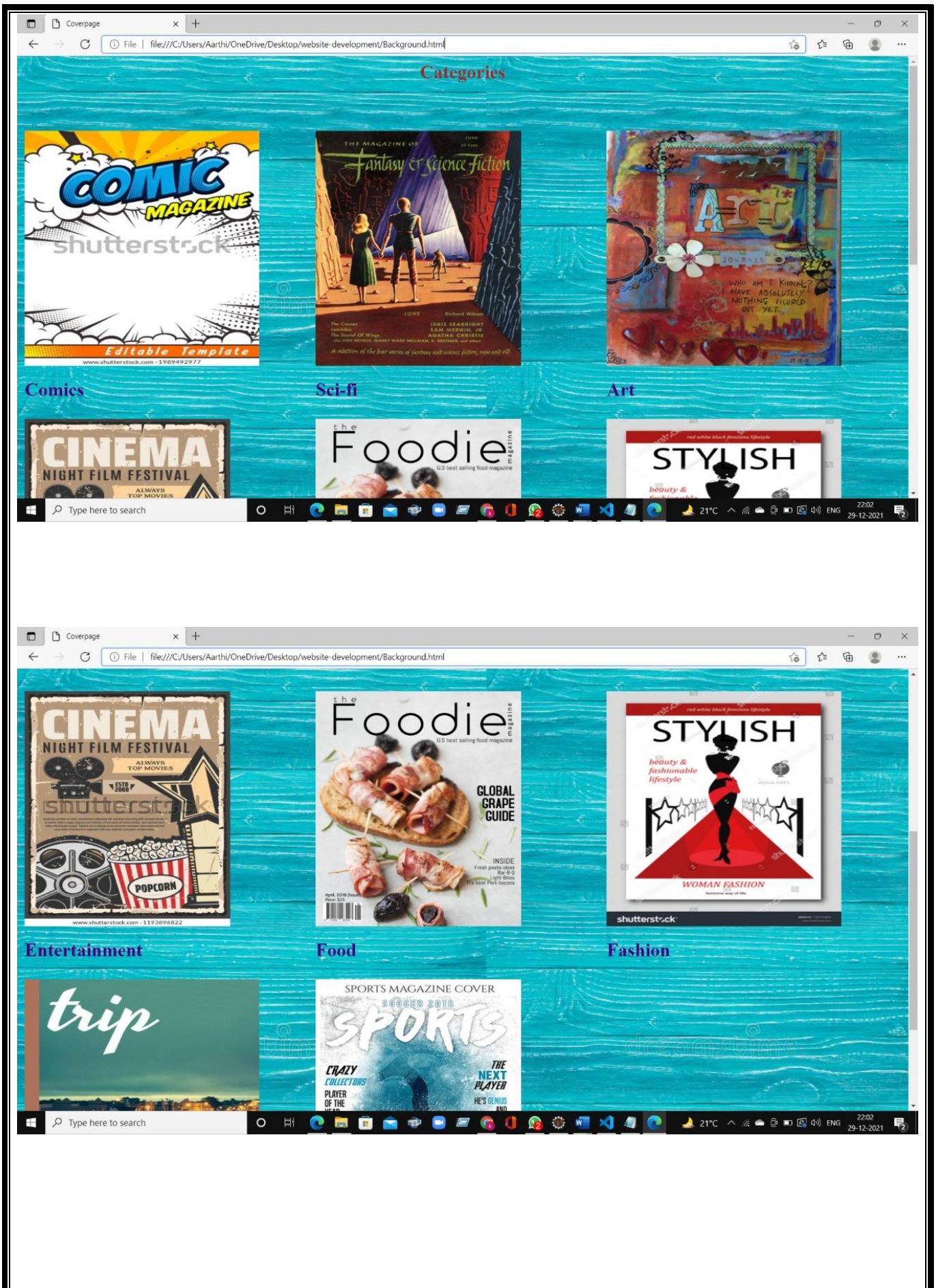
  </div>
</div>
<div class="row">
  <div class="column">
    

    <h1 style="color:indigo;">Sports</h1>

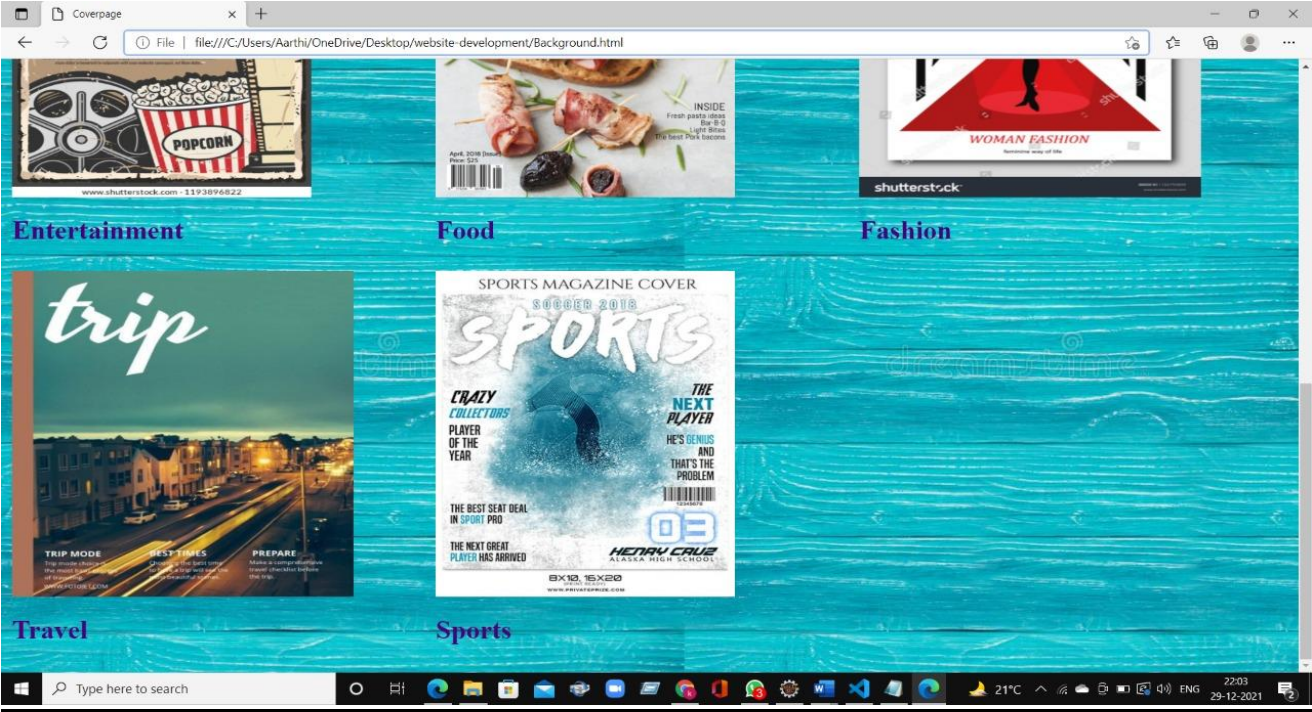
  </div>

</div>
</body>
</html>
```









**Navigation.html**

```

<head>
  <meta charset="utf-8" />
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.3.0/css/font-awesome.min.css">
  <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>

  <div class="container bar">
    <label class="floatLeft" for="navBtn"><span></span></label>
    <span class="floatRight paddingRight2rem">
      </span>
    </div>
  <div class="container">
    <input type="checkbox" class="navBtn" id="navBtn" />
    <nav>
      <ul>
        <li>
          <a href="D:\wp\comic image.jpeg"><i class="fa fa-heart"></i>Comic</a>
        </li>
        <li>
          <a href="D:\wp\sci-fi image.jpeg"><i class="fa fa-medkit"></i>Fiction</a>
        </li>
        <li>
          <a href="D:\wp\art image.jpeg"><i class="fa fa-heartbeat"></i>Art</a>
        </li>
        <li>
          <a href="D:\wp\entertainment image.jpeg"><i class="fa fa-ambulance"></i>Entertainment</a>
        </li>
        <li>
          <a href="D:\wp\food image.jpeg"><i class="fa fa-ambulance"></i>Food</a>
        </li>
        <li>
          <a href="D:\wp\fashion image.jpeg"><i class="fa fa-ambulance"></i>Fashion</a>
        </li>
        <li>
          <a href="D:\wp\travel image.jpeg"><i class="fa fa-ambulance"></i>Travel</a>
        </li>
        <li>
          <a href="D:\wp\sports image.jpeg"><i class="fa fa-ambulance"></i>Sports</a>
        </li>
      </ul>
    </nav>
  </div>

</body>

```

**Navigation.css**

```
/* =====
Google Fonts
===== */
@import url(https://fonts.googleapis.com/css?family=PT+Sans:400,400italic,700,700italic);
/* =====
clearfix
===== */
.cf:before,
.cf:after {
  content: " ";
  /* 1 */
  display: table;
  /* 2 */
}

.cf:after {
  clear: both;
}

.cf {
  *zoom: 1;
}

/* =====
html, body and stuff
===== */
*, *:before, *:after {
  -moz-box-sizing: border-box;
  -webkit-box-sizing: border-box;
  box-sizing: border-box;
}

body {
  font-size: 100%;
  font-family: 'PT Sans', sans-serif;
  background-color: #f3f3f3;
}

/* =====
text
===== */
.left {
  text-align: left;
}

.center {
  text-align: center;
}

.right {
  text-align: right;
}

.justify {
  text-align: justify;
}
```

```
.uppercase {
  text-transform: uppercase;
}

/* =====
padding / margin
===== */
.padding1rem {
  padding: 1rem;
}

.paddingRight2rem {
  padding: 0 2rem 0 0;
}

/* =====
links
===== */
a {
  color: white;
}

/* =====
headlines
===== */
/* =====
awesome Fonts
===== */
i {
  color: #d1d4d9;
  margin: 0 1rem 0 0;
}

/* =====
layout
===== */
.container {
  max-width: 100%;
  margin: 0 auto;
  overflow: hidden;
}

.floatLeft {
  float: left;
}

.floatRight {
  float: right;
}

.posAbs {
  position: absolute;
}

.third {
  width: 33.3333%;
}

.half {
  width: 50%;
```

```
}

.twoThird {
  width: 66.6666%;
}

.quarter {
  width: 25%;
}

label {
  cursor: pointer;
  border-right: 1px solid #d1d4d9;
  display: block;
  height: 4rem;
  width: 4rem;
  position: relative;
}

label span {
  border-radius: 15%;
  height: 3px;
  width: 32px;
  background-color: white;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translateY(-50%) translateX(-50%);
  transition: all 0.3s ease-out;
}

label span:before {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: 400%;
  transition: all 0.3s ease-out;
}

label span:after {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: -400%;
  transition: all 0.3s ease-out;
}

label:hover span {
  height: 0;
  transition: all 0.3s ease-out;
}

label:hover span:before {
  height: 3px;
  transform: rotate(-45deg);
  transition: all 0.3s ease-out;
}

label:hover span:after {
```

```
height: 3px;
transform: rotate(45deg);
transition: all 0.3s ease-out;
}

.bar {
color: white;
background-color: #4a4e54;
line-height: 4rem;
border: 1px solid grey;
}

nav {
border-left: 1px solid #d1d4d9;
border-right: 1px solid #d1d4d9;
border-bottom: 1px solid #d1d4d9;
max-width: 300px;
background-color: white;
transform: translateX(-100%) scale(1, 0.1);
transform-origin: top left;
transition: all 0.3s ease-out;
}

nav ul {
margin: 0;
padding: 0;
list-style: none;
}

nav ul li {
border-top: 1px solid #efefef;
opacity: 0;
transform: translateX(-100%);
transition: all 0.6s ease-out;
}

nav ul li a {
transition: all 0.3s ease-out;
line-height: 1rem;
text-decoration: none;
color: #8a8d92;
display: block;
padding: 1rem;
}

nav ul li:first-child {
border-top: none;
}

nav ul li:hover a {
color: white;
background-color: #6d747e;
transition: all 0.3s ease-out;
}

nav ul li:hover a i {
color: white;
}

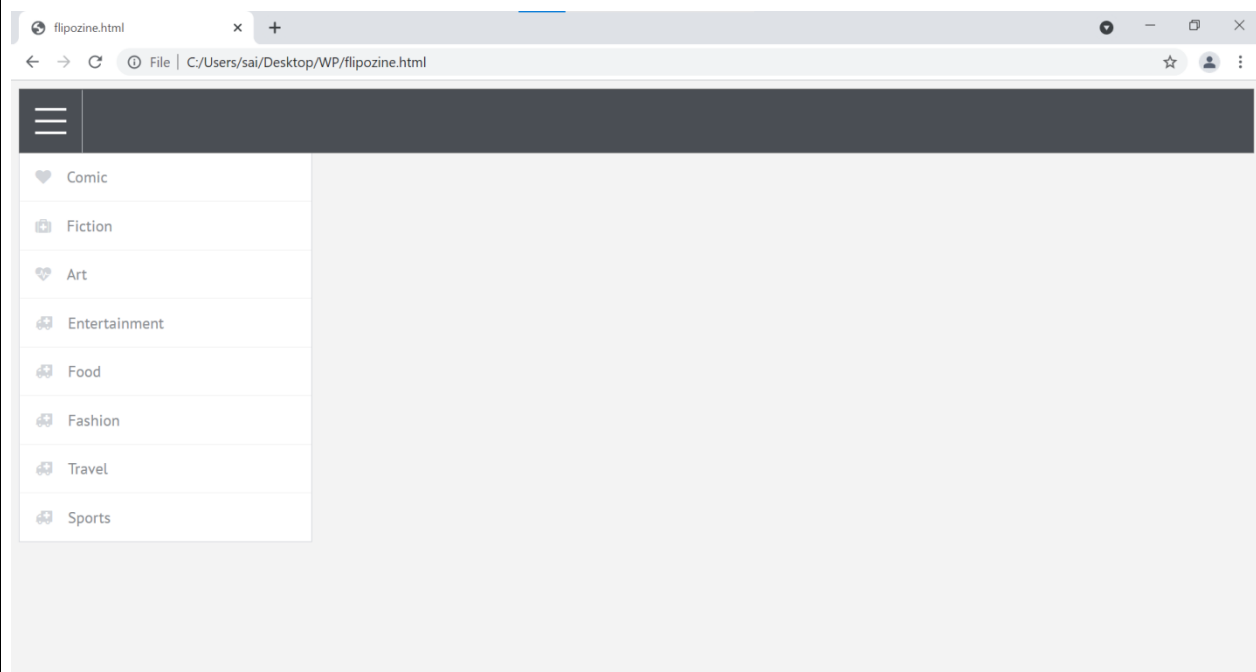
.navBtn:checked ~ nav {
transform: translateX(0);
transition: all 0.3s ease-out;
}

.navBtn:checked ~ nav ul li {
opacity: 1;
}
```



```
transform: translateX(0);  
transition: all 0.6s ease-out;  
}
```

```
.navBtn {  
  display: none;  
}
```





The screenshot shows a web browser displaying a registration form. At the top, a message box says "This page says Name is required" with an "OK" button. The form itself is titled "Registration Form" and contains the following fields: "First Name:" (with a text input), "Last Name:" (with a text input), "Address:" (with a text input), "Gender:" (with radio buttons for "Male" and "Female"), "Email Id:" (with a text input containing "example@gmail.com"), "Mobile:" (with a text input), and "Course:" (with a dropdown menu labeled "select course"). At the bottom of the form are "Submit" and "Reset" buttons.

**6. Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.**

```
<?xml version="1.0"?>
```

```
<userlist>
```

```
<user>
```

```
<userid>usr01</userid>
```

```
<username>Sravya</username>
```

```
<address>RTC X roads</address>
```

```
<phone>8341995448</phone>
```

```
<email>19wh1a1255@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr02</userid>
```

```
<username>Sri</username>
```

```
<address>Warangal</address>
```

```
<phone>9440372261</phone>
```

```
<email>19wh1a1252@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr03</userid>
```

```
<username>Pooja</username>
```

```
<address>Kukatpally</address>
```

```
<phone>9866666666</phone>
```

```
<email>19wh1a1258@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr04</userid>
```

```
<username>Bindhu</username>
```

```
<address>suryapet</address>
```

```
<phone>9835994445</phone>
```

```
<email>19wh1a1214@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
<userid>usr05</userid>
<username>Pratyusha</username>
<address>Himayat Nagar</address>
<phone>968877555</phone>
<email>19wh1a1254@bvrithyderabad.edu.in</email>
</user>
```

```
<user>
<userid>usr06</userid>
<username>Harshitha</username>
<address>ESI</address>
<phone>968875554</phone>
<email>19wh1a1253@bvrithyderabad.edu.in</email>
</user>
```

```
<user>
<userid>usr07</userid>
<username>Aarthi</username>
<address>Shivam Road</address>
<phone>968888554</phone>
<email>19wh1a1258@bvrithyderabad.edu.in</email>
</user>
```

```
<user>
<userid>usr08</userid>
<username>Sivani</username>
<address>ESI</address>
<phone>968878554</phone>
<email>20wh5a1275@bvrithyderabad.edu.in</email>
</user>
```

```
<user>
<userid>usr09</userid>
<username>Laxmi</username>
<address>Bachupally</address>
<phone>9688995541</phone>
<email>19wh5a1260@bvrithyderabad.edu.in</email>
</user>
```

```
<user>
<userid>usr10</userid>
<username>Nagamani</username>
<address>Shahpur</address>
```



```
}  
if(flag==0)  
{  
  alert("Invalid User");  
}  
}  
</script>  
</head>  
<body>  
<center>  
  <h1><b>User Information</b></h1>  
  <form name="frm">  
    User ID : <input type="text" name="uname"><br>  
    <input type="button" name="btn" value="Submit" onclick="fncDisplayInfo()">  
  </form>  
</center>  
</body>  
</html>
```

---

## User Information

User ID :

### User Details

User ID :   usr01  
User Name : Sravya .  
Address :   RTC X roads  
Phone no :   8341995448  
E - Mail :   19wh1a1255@bvrithyderabad.edu.in



**8) Install TOMCAT web server. Implement servlets for registration page of your project.**

Hello.java

```

import jakarta.servlet.http.*;
import jakarta.servlet.*;
import java.io.*;
import java.sql.*;
public class Hello extends HttpServlet{

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException{
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        String Name=request.getParameter("userName");
        String password=request.getParameter("userPass");
        String email=request.getParameter("userEmail");
        String mobile=request.getParameter("userMobile");
        String dob=request.getParameter("userDOB");
        String gender=request.getParameter("gender");
        String country=request.getParameter("userCountry");
        out.print("Hello "+Name);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
            PreparedStatement ps=con.prepareStatement("insert into wp.registration
values(?,?,?,?,?,?,?)");
            ps.setString(1,Name);
            ps.setString(2,password);
            ps.setString(3,email);
            ps.setString(4,mobile);
            ps.setString(5,dob);
            ps.setString(6,gender);
            ps.setString(7,country);
            int r=ps.executeUpdate();
            if(r==0)
                out.println("insertion failure");
            else
                out.println(" your registration is successful");
            con.close();
            ps.close();
        }
        catch(Exception e)
        {

        }

        out.close();
    }
}

```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="https://jakarta.ee/xml/ns/jakartaee"
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd" id="WebApp_ID" version="5.0">
  <display-name>WP_SERVLETS</display-name>
  <welcome-file-list>
    <welcome-file>register.html</welcome-file>
  </welcome-file-list>
  <servlet>
    <description></description>
    <display-name>Hello</display-name>
    <servlet-name>Hello</servlet-name>
    <servlet-class>Hello</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Hello</servlet-name>
    <url-pattern>/Hello</url-pattern>
  </servlet-mapping>
</web-app>

```

Register.html

```

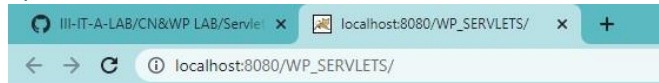
<html>
  <body>
    <form action="/Hello" method="get">
      <fieldset style="width:20%; background-color:#ccffeb">
        <h2 align="center">Registration form</h2><hr>
        <table>
          <tr>
            <td>Name</td>
            <td><input type="text" name="userName" required /></td>
          </tr>
          <tr>
            <td>Password</td>
            <td><input type="password" name="userPass" required /></td>
          </tr>
          <tr>
            <td>Email Id</td>
            <td><input type="text" name="userEmail" required /></td>
          </tr>
          <tr>
            <td>Mobile</td>
            <td><input type="text" name="userMobile" required/></td>
          </tr>
          <tr>
            <td>Date of Birth</td>
            <td><input type="date" name="userDOB" required/></td>
          </tr>
          <tr>
            <td>Gender</td>
            <td><input type="radio" name="gender" value="male" checked> Male
            <input type="radio" name="gender" value="female"> Female </td></tr>
          <tr>
            <td>Country</td>
            <td><select name="userCountry" style="width:130px">
              <option>Select a country</option>
              <option>India</option>
              <option>America</option>
              <option>England</option>
            </td>
          </tr>
        </table>
      </fieldset>
    </form>
  </body>
</html>

```

```

        <option>other</option></select>
    </td>
</tr>
<tr>
    <td><input type="reset" value="Reset"/></td>
    <td><input type="submit" value="Register"/></td>
</tr>
</table>
</fieldset>
</form>
</body>
</html>

```



**Registration form**

---

Name

Password

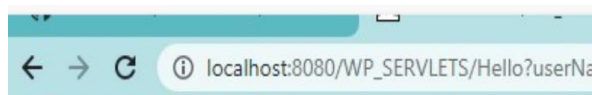
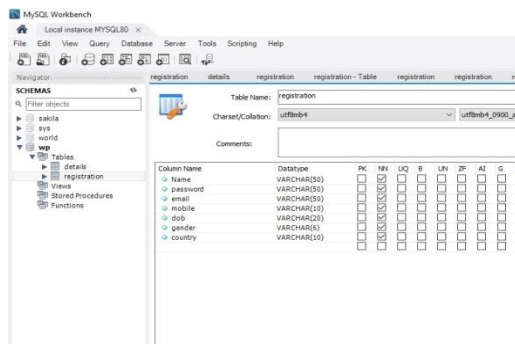
Email Id

Mobile

Date of Birth

Gender ☒ Male ☐ Female

Country



Hello Sravya your registration is successful

1 • SELECT \* FROM wp.registration;

Name	password	email	mobile	dob	gender	country
Sravya	12345	19wh1a1255@bvrthyderabad.edu.in	8341995448	2002-05-12	female	India

## 9) Implement JSP FOR YOUR REGISTRATION PAGE

### Register.jsp

```
<%@ page import="java.io.*" %>
<%@ page import="java.sql.*" %>

<%
String result="";
String username=request.getParameter("userName");
String password=request.getParameter("userPass");
String phonenumber=request.getParameter("userMobile");
String address=request.getParameter("userAddress");
String city=request.getParameter("userCity");
String state=request.getParameter("userState");
String country=request.getParameter("userCountry");
try
{
Class.forName("com.mysql.cj.jdbc.Driver");
Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
PreparedStatement ps=con.prepareStatement("insert into wp.details_jsp
values(?,?,?,?,?,?,?)");
ps.setString(1,username);
ps.setString(2,password);
ps.setString(3,phonenumber);
ps.setString(4,address);
ps.setString(5,city);
ps.setString(6,state);
ps.setString(7,country);
int r=ps.executeUpdate();
if(r==0)
out.println("failure");
else
result="Admin Registered Successfully";
con.close();}
catch (Exception e)
{
    System.out.println(e);
}
%>

<div style="text-align:center">
    <form action="Login.html">
```

```

        <h1><%=result%></h1><br>
        <input type="submit" value="Go To registration Page">
    </form><br><br>
</div>

Login.html
<html>
    <body>
        <form action="register.jsp" method="get">
            <fieldset style="width:20%; background-color:#ccffeb">
                <h2 align="center">Registration form</h2><hr>
                <table>
                    <tr>
                        <td>username</td>
                        <td><input type="text" name="userName" required /></td>
                    </tr>
                    <tr>
                        <td>password</td>
                        <td><input type="password" name="userPass" required /></td>
                    </tr>
                    <tr>
                        <td>phonenummer</td>
                        <td><input type="text" name="userMobile" required/></td>
                    </tr>
                    <tr>
                        <td>address</td>
                        <td><input type="text" name="userAddress" required/></td>
                    </tr>
                    <tr>
                        <td>city</td>
                        <td><input type="text" name="userCity" required/></td>
                    </tr>
                    <tr>
                        <td>state</td>
                        <td><input type="text" name="userState" required/></td>
                    </tr>
                    <td>country</td>
                    <td><select name="userCountry" style="width:130px">
                        <option>Select a country</option>
                        <option>India</option>
                        <option>America</option>
                        <option>England</option>
                        <option>other</option></select>
                    </td>
                </tr>
                <tr>
                    <td><input type="reset" value="Reset"/></td>
                    <td><input type="submit" value="Register"/></td>
                </tr>
            </table>
        </fieldset>
    </form>
</body>
</html>

```

## Registration form

username   
 password   
 phonenumber   
 address   
 city   
 state   
 country  

## Admin Registered Successfully

	username	password	phonenumber	address	city	state	country
▶	NULL	NULL	NULL	NULL	NULL	NULL	
	NULL	NULL	NULL	NULL	NULL	NULL	
	NULL	NULL	NULL	NULL	NULL	NULL	
	Shravya	NULL	8341995448	gandhi nagar	Hyderabad	Telangana	
	NULL	NULL	NULL	NULL	NULL	NULL	
	Shravya	12345	8341995448	gandhi nagar	Hyderabad	Telangana	
	NULL	NULL	NULL	NULL	NULL	NULL	NULL
	Shravya	12	8341995448	gandhi nagar	Hyderabad	Telangana	India