

Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Case Study: Observing a website. Study about its content, structure.

Website Analysed : <https://www.nmims.edu/>

The website features a prominent banner at the top with the text "One stop solution for all startup needs" and "Apply Now". Below this, there are several informational boxes: "A+ Accreditation by NAAC with 3.5 CGPA", "Category 1 University by HRD", "AACSB ACCREDITED SBM - Mumbai Campus", "Collaboration with Top International Universities", "Research Focused University", and "Placement Stellar Track Record". A large image of the university's modern building is displayed with statistics: 41 years of legacy, 17000+ full-time students, 750+ faculty members, 8 campuses/centres across India, and 17 specialised schools. A video player on the right shows a person speaking with the text "FUTURE belongs to the". The "NEWS & EVENT" section shows a group photo and a Zoom call. The "CAMPUSES / CENTRES" section shows five campus buildings labeled Mumbai, Shrpur, Bengaluru, Hyderabad, and Indore. The "OUR TOP RECRUITERS" section lists Google, Microsoft, Wipro, Deloitte, and EY. The "ALUMNI SPEAK" section features a testimonial from Mr. Shailesh Chariturvedi. The "STUDENT LIFE" section shows students in various activities like playing ping pong, performing music, and socializing.

Header- the initial part is the header section where on the top left side is the logo and left section includes all the navigation tabs for the website.



ABOUT ADMISSIONS PROGRAMS SCHOOLS CAMPUS/CENTRES NEWS RESEARCH CAREERS ENQUIRY

Q ≡

1. Below the header is a section which includes grid allocation, which includes the achievements of the university, programs and other things.

The next header is an image which has its position fixed and above the image is a little description about the University. Along with a video tag used being the position as right.

NMIMS is placed at the forefront of excellent education because of its academic quality, research focus and faculty from top national and global institutes & industries. Pursue a great career from a recognized platform. Create a better tomorrow with us.

41 years of legacy **17000+** full-time students **750+** faculty members **8** campuses / centres across India **17** specialized schools

NMIMS is the all-encompassing educational platform for diverse fields of career such as Engineering, Science and Technology, Management, Commerce, Architecture, Law, Economics, Pharmacy, Aviation, Design, Performing Arts, Liberal Arts, Hospitality Management, Mathematical Science, Branding and Advertising, Agricultural Sciences and much more.

- Ideal for forward-thinking and new-age young professionals
- Strong industry interface & corporate relationships with 1348+ companies
- Research-backed updated curriculum, along with 2400+ published papers to its credit
- Continuing the legacy of quality education
- Focus on employability of students through evolved pedagogy
- Pursuing excellence in technological and management research

FUTURE belongs to the

0:00 / 1:02

The next section has news, events and the recruiters for the NMIMS University. All the image tags have onclick event. So, when the images are clicked, you are redirected to a different website.

NEWS & EVENT

NMIMS - AVNL's learning centre sign MoU for training, up-skilling of India's defence manufacturing officers

Rishabh hosts yet another stimulating Book Talk on "The 10 Commandments of Family Business"

Business hosts an inspirational Book Talk on "BLAZE A SON'S TRIAL BY FIRE: A TRUE STORY"

OUR TOP RECRUITERS

Google Microsoft wipro Deloitte EY

The final section is alumni column which has a carousel which shows different alumni speaking about the university. The student and campus section have parallax effects which are triggered once the user scrolls through that section.

ALUMNI SPEAK

MR. SHAILESH CHARTURVEDI (BATCH OF MBA 1992)
Managing Director - CEO - Tommy Hilfiger and Calvin Klein

I always remain indebted to NMIMS as MBA here opened big doors of opportunities for me. I could study new courses in finance and marketing from a dedicated full time faculty of very high quality. We had fantastic infrastructure. A large Computer centre, a beautiful centrally located campus and I looked upto going to college every day.

STUDENT LIFE

A grid of nine images showing students in various activities: studying outdoors, playing ping pong, performing music, talking, and posing for group photos.

CAMPUSES / CENTRES

A row of five images showing the exteriors of NMIMS campuses in Mumbai, Shirpur, Bengaluru, Hyderabad, and Indore. Each image has a "READ MORE" button below it. A "Chat with us" button is located at the bottom right of the row.

A common feature is an embedded whatsapp icon at the bottom right corner which when clicks open a chat box of whatsapp.

NMIMS Deemed-to-be University **online** **X**

NMIMS Deemed-to-be University

Hi,
How can I help you ?

Start chat

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Create a homepage for a website using basic formatting tags in HTML

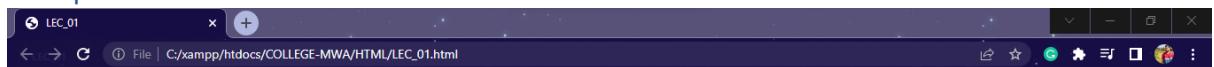
Code

```
<!DOCTYPE html>
<html>
<head>
<title>LEC_01</title>
</head>
<body>

<h1>Varun Khadayate</h1>
<hr style="height:5px;border-width:0;color:red;background-color:red">
<h2><I>DOB: 08/10/2001</I></h2>
<h3><B>College Year : 3rd Year</B></h3>
<h4><PRE>Cell Number : 9930727285</PRE></h4>
<h5><STRONG>Address : Panvel,Mumbai.</STRONG></h5>
<CITE>Varun Khadayate</CITE>
<br>
<p><CODE>SAP : 70362019028</CODE></p>

</body>
</html>
```

Output



Varun Khadayate

DOB: 08/10/2001

College Year : 3rd Year

Cell Number: 9930727285

Varun Khadayate

Varun Khadayate

70362019028

Roll. No. A016	Name: Varun Khadayate
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Create class time table using Tables in HTML

Code

```
<!doctype html>
<html>
    <head>
        <title>Time-Table</title>
    </head>
    <body>
        <table border="0" align="center" width="80%" cellpadding="10" cellspacing="0">
            <tr>
                <td>
                    <table border="0" width="100%" cellpadding="5" cellspacing="0">
                        <tr>
                            <td rowspan="3"></td>
                            <td colspan="2" align="center"><b>School of Technology Management & Engineering | Navi Mumbai Campus</b></td>
                        </tr>
                        <tr></tr>
                        <tr></tr>
                    <tr>
                        <td colspan="2"><b>Course: B Tech (CSBS)</b></td>
                        <td colspan="2"><b>AY 2021-22</b></td>
                        <td colspan="2"><b>Class: Third Year | Semester- VI</b></td>
                    </tr>
                    </table>
                </td>
            </tr>
            <tr>
                <td>
                    <table border="2" width="100%" cellpadding="10" cellspacing="0" bordercolor="#000000" >
                        <tr>
                            <td align="center"><b>Date</b></td>
                            <td align="center" colspan="2"></td>
                            <td align="center" colspan="2"></td>
                            <td align="center" ></td>
                            <td align="center" colspan="2"></td>
                            <td align="center" colspan="2"></td>
                        </tr>
                        <tr>
                            <td align="center"><b>Time/ Day</b></td>
                            <td align="center" colspan="2"><b>Monday</b></td>
```

Tuesday	
Wednesday	
Thrusday	
Friday	
Saturday	
09:00 AM to 10:00 AM	
DMA	
MWA	
BCVS PH C005</td>	
MWA AP C220</td>	
IS	
BCVS (T) B2 PH Lab-7</td>	
(P) B1 AB Lab-1</td>	
>10:05 AM to 11:05 AM	
BCVS PH C005</td>	
>11:05 AM to 11:15 AM	
SHORT BREAK	
>11:15 AM to 12:15 PM	
AI	
IS	
AI AP C005</td>	


```

        </tr>
    </table>
</td>
</tr>
        <tr>
            <td>
                <table border="2" width="100%" cellpadding="2" cellspacing="0"
bordercolor="#000000">
                    <tr>
                        <th align="center" rowspan="2"><b>Name of the Subject</b></th>
                        <th align="center" colspan="3"><b>Number of Hours per Week</b></th>
                        <th align="center" rowspan="2"><b>Total Teaching Hours<br>per Week</b></th>
                        <th align="center" rowspan="2"><b>Faculty Name</b></th>
                    </tr>
                    <tr>
                        <th align="center"><b>Theory (L)</b></th>
                        <th align="center"><b>Practical (P)</b></th>
                        <th align="center"><b>Tutorial (T)</b></th>
                    </tr>
                    <tr bgcolor="#c6e0b4">
                        <td>Computer Networks(CN)</td>
                        <td align="center">3</td>
                        <td align="center">4</td>
                        <td align="center">0</td>
                        <td align="center">7</td>
                        <td align="center">Prof. Amrita Banerjee (AB)</td>
                    </tr>
                    <tr bgcolor="#dbdbdb">
                        <td>Information Security(IS)</td>
                        <td align="center">3</td>
                        <td align="center">4</td>
                        <td align="center">0</td>
                        <td align="center">7</td>
                        <td align="center">Prof. Pranita Binnar(PB)</td>
                    </tr>
                    <tr bgcolor="#f0b4c4">
                        <td>Artificial Intelligence(AI)</td>
                        <td align="center">3</td>
                        <td align="center">4</td>
                        <td align="center">0</td>
                        <td align="center">7</td>
                        <td align="center">Prof. Ashishkumar Patel (AP)</td>
                    </tr>
                    <tr bgcolor="#b084d1">
                        <td>Financial & Cost Accounting (FCA)</td>
                        <td align="center">3</td>
                        <td align="center">0</td>
                        <td align="center">2</td>
                        <td align="center">5</td>
                        <td align="center">Prof. Jasmin Bid (JB)</td>
                    </tr>

```

```

</tr>
<tr bgcolor="#9bc2e6">
    <td>Business Communication & Value Science<br>-IV (BCVS)</td>
    <td align="center">2</td>
    <td align="center">0</td>
    <td align="center">4</td>
    <td align="center">6</td>
    <td align="center">Prof. Poonam Hans (PH)</td>
</tr>
<tr bgcolor="#ffd966">
    <td>Elective-II<br>Data Mining and Analytics (DMA)</td>
    <td align="center">3</td>
    <td align="center">2</td>
    <td align="center">0</td>
    <td align="center">5</td>
    <td align="center">Prof. Moumita Pal (MP)</td>
</tr>
<tr bgcolor="f8cbad">
    <td>Elective-II<br>Modern Web Application (MWA)</td>
    <td align="center">3</td>
    <td align="center">2</td>
    <td align="center">0</td>
    <td align="center">5</td>
    <td align="center">Prof. Ashishkumar Patel (AP)</td>
</tr>
<tr>
    <td align="right" colspan="4"><b>Total Class Hours per Week</b></td>
    <td align="center"><b>42</b></td>
    <td></td>
</tr>

        </table>
    </td>
    </tr>
<tr>
    <td>
        <table border="0" width="100%" cellpadding="10" cellspacing="0">
            <tr></tr>
            <tr height="100px">
                <td align="center"><b>Faculty Incharge</b></td>
                <td align="center"></td>
                <td align="center"></td>
                <td align="center"><b>Dr.P.N.Mukherjee <br> Campus Director</b></td>
            </tr>
        </table>
    </td>
    </tr>
</table>
</body>
</html>

```

Output

Time-Table

File | C:/xampp/htdocs/COLLEGE-MWA/PRACTICAL/Prac_03_Time%20Table./COLLEGE_TIMETABLE.html

School of Technology Management & Engineering | Navi Mumbai Campus
AV 2021-22
Class: Third Year | Semester: VI

Course: B Tech (CSE)

Date	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Time Day							
09:00 AM to 10:00 AM	DMA(P) MP Lab-2	MWA(P) AP Lab-4		BCVS PB C005	DMA MP Lab-D Lab	MWA AP C220	
10:00 AM to 11:00 AM				BCVS PB C005	IS AP C220		
11:00 AM to 11:15 AM	SHORT BREAK						
11:15 AM to 12:15 PM	AI(P) H1 AP Lab-1	IS(P) H2 PB Lab-5	AI AP C005	FCA H1 C005	IS PB C220	IS PB C005	BCVS(I) H1 PB Lab-7
12:20 PM to 1:20 PM			CN AH C005	FCA H1 C005	IS PB C005	FCA H1 C005	AI(P) H2 AP Lab-1
1:20 PM to 2:00 PM	LUNCH BREAK						
2:00 PM to 3:00 PM	AI AP C005	DMA MP Lab-D Lab	MWA AP C220	DMA MP Lab-D Lab	MWA AP C220	CN AH C005	FCA H1 PB C005
3:05 PM to 4:05 PM	FCA H1 PB C005					CN AH C220	

Name of the Subject	Number of Hours per Week			Total Teaching Hours per Week	Faculty Name
	Theory (L)	Practical (P)	Tutorial (T)		
Computer Networks(N)	4	0	0	4	Prof. Anilka Bhagat (SD)
Information Systems(II)	3	4	0	7	Prof. Pravin Hane (PH)
Artificial Intelligence(AI)	3	4	0	7	Prof. Ashok Kumar Patel (AP)
Practical & Case Accounting(IV-3)	0	2	2	4	Prof. Sameer Bid (SB)
Principles of Microeconomics &. Macroeconomics	2	0	4	6	Prof. Poonam Hane (PH)
IV-BCVS	2	0	0	2	Prof. Monita Pal (MP)
Elective-I	3	2	0	5	
Designing and Analytics (DMA)	3	2	0	5	
Elective-II	3	2	0	5	
Modern Web Application (MWA)	3	2	0	5	Prof. Ashok Kumar Patel (AP)
				42	Total Class Hours per Week

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Design Login and Registration forms using HTML

Login.html

```
<!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">
<link href="https://fonts.googleapis.com/css?family=Ubuntu' rel='stylesheet'>
<link rel="stylesheet" href="PRAC_6.css">
<title>Login Page</title>
</head>

<body>
<div class="container">
<form
action="http://localhost/College%20MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGISTRATION/login.php" name="myform" method="get">
<h1 style="text-align: center">Login Page</h1>
<label for="email">Email address:</label>
<input pattern="^([A-Za-z0-9_.%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4})$"
type="email" name="email" required /><br />
<label for="password">Password: </label><br />
<input type="password" name="password" id="password" pattern="(?=.*\d)(?=.*[a-zA-Z])(?=.*[A-Z]).{8,}" required><br />
<div id="message">
<h3>Password must contain the following:</h3>
<p id="letter" class="invalid">A <b>lowercase</b> letter</p>
<p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>
<p id="number" class="invalid">A <b>number</b></p>
<p id="length" class="invalid">Minimum <b>8 characters</b></p>
</div>
<input type="submit" value="SUBMIT" onclick="submitFunction()">
</form>
</div>

<script>
var myInput = document.getElementById("password");
var letter = document.getElementById("letter");
var capital = document.getElementById("capital");
var number = document.getElementById("number");
var length = document.getElementById("length");

// When the user clicks on the password field, show the message box

```

```
myInput.onfocus = function () {
    document.getElementById("message").style.display = "block";
}

// When the user clicks outside of the password field, hide the message box
myInput.onblur = function () {
    document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function () {
    // Validate lowercase letters
    var lowerCaseLetters = /[a-z]/g;
    if (myInput.value.match(lowerCaseLetters)) {
        letter.classList.remove("invalid");
        letter.classList.add("valid");
    } else {
        letter.classList.remove("valid");
        letter.classList.add("invalid");
    }

    // Validate capital letters
    var upperCaseLetters = /[A-Z]/g;
    if (myInput.value.match(upperCaseLetters)) {
        capital.classList.remove("invalid");
        capital.classList.add("valid");
    } else {
        capital.classList.remove("valid");
        capital.classList.add("invalid");
    }

    // Validate numbers
    var numbers = /[0-9]/g;
    if (myInput.value.match(numbers)) {
        number.classList.remove("invalid");
        number.classList.add("valid");
    } else {
        number.classList.remove("valid");
        number.classList.add("invalid");
    }

    // Validate length
    if (myInput.value.length >= 8) {
        length.classList.remove("invalid");
        length.classList.add("valid");
    } else {
        length.classList.remove("valid");
        length.classList.add("invalid");
    }
}
```

```
</script>
</body>

</html>
Loginh.php
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Login Success</title>
    <link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
    <style type="text/css">
        h1
        {
            text-align: center;
        }
        h2
        {
            text-align: center;
        }
        *{
            margin: 0;
            padding: 0;
        }
        body
        {
            font-family: 'Ubuntu', sans-serif;
            background: #4288c8;
            display: flex;
            justify-content: center;
            align-items: center;
        }
        .container
        {
            margin-top: 50px;
            width: 85%;
            background-color: #FFFFFF;
            padding: 20px;
            border-radius: 8px;
            margin-bottom: 50px;
        }
    </style>
</head>
<body>
    <div class="container">
        <?php
        $pwd = "Varun@0810";
        $Name = "Varun";
        $Surname = "Khadayate";
```

```

$cell_no = "9930727285";
$email = "varunkhadayate0810@gmail.com";
if($pwd == $_GET["password"])
{
    print("<h1>Login Sucessful</h1>");
    print("<br><h2>Hello User!!!</h2>");
    print("<br><h2>Here are your Details</h2>");
    print("<br><h3> Name :: </h3>".$Name." ".$Surname);
    print("<br>");
    print("<br><h3> Cell Number :: </h3>".$cell_no);
    print("<br>");
    print("<br><h3> Email Address :: </h3>".$email);
}
else
{
    print("Password is incorrect");
}

?>
</div>
</body>
</html>

Prac_6.css
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Login Success</title>
<link href='https://fonts.googleapis.com/css?family=Ubuntu' rel='stylesheet'>
<style type="text/css">
h1
{
    text-align: center;
}
h2
{
    text-align: center;
}
*{
    margin: 0;
    padding: 0;
}
body
{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;

```

```

        }
    .container
    {
        margin-top: 50px;
        width: 85%;
        background-color: #FFFFFF;
        padding: 20px;
        border-radius: 8px;
        margin-bottom: 50px;
    }

```

</style>

</head>

<body>

```

<div class="container">
<?php
$pwd = "Varun@0810";
$name = "Varun";
$Surname = "Khadayate";
$cell_no = "9930727285";
$email = "varunkhadayate0810@gmail.com";
if($pwd == $_GET["password"])
{
    print("<h1>Login Sucessful</h1>");
    print("<br><h2>Hello User!!!</h2>");
    print("<br><h2>Here are your Details</h2>");
    print("<br><h3> Name :: </h3>".$name." ".$Surname);
    print("<br>");
    print("<br><h3> Cell Number :: </h3>".$cell_no);
    print("<br>");
    print("<br><h3> Email Address :: </h3>".$email);
}
else
{
    print("Password is incorrect");
}
?>
</div>

```

</body>

</html>

[Registration.html](#)

<!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">
<link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
<link rel="stylesheet" href="PRAC_6.css">

```

```

<title>Registration Page</title>
</head>

<body>
<div class="container">
<form
action="http://localhost/College%20MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGIS
TRATION/registration.php" name="myform">
    <h1 style="text-align: center">Registration Page</h1>
    <label for="fname">First name: </label><br>
    <input type="text" name="fname" id="fname" required><br>
    <label for="lname">Last name: </label><br>
    <input type="text" name="lname" id="lname" required><br>
    <label for="email">Email address:</label>
    <input type="email" id="email" required>
    <label for="password">Password: </label><br>
    <input type="password" name="password" id="password" pattern="(?=.*\d)(?=.*[a-
z])(?=.*[A-Z]).{8,}" required><br>
    <div id="message">
        <h3>Password must contain the following:</h3>
        <p id="letter" class="invalid">A <b>lowercase</b> letter</p>
        <p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>
        <p id="number" class="invalid">A <b>number</b></p>
        <p id="length" class="invalid">Minimum <b>8 characters</b></p>
    </div>
    <label for="age">Age: </label><br>
    <input type="number" name="age" id="age" max="60" required><br>
    <label for="gender">Gender: </label><br>
    <select type="text" value="" name="gender" id="gender">
        <option>None</option>
        <option>Male</option>
        <option>Female</option>
    </select>
    <br> <br>
    <label for="age">Cell Number: </label><br>
    <input type="number" name="Number" id="Number" minlength="10" required><br>
    <input type="submit" value="SUBMIT" onclick="submitFunction()">
</form>
<h3>Connect with me via the following</h3>
<a href="https://www.linkedin.com/in/varun-k-578711195/">
    
</a>
<a href="https://twitter.com/khadayate_varun">
    
</a>
<a href="https://twitter.com/khadayate_varun">

```

```


</a>
</div>

<script>
var myInput = document.getElementById("password");
var letter = document.getElementById("letter");
var capital = document.getElementById("capital");
var number = document.getElementById("number");
var length = document.getElementById("length");

// When the user clicks on the password field, show the message box
myInput.onfocus = function () {
    document.getElementById("message").style.display = "block";
}

// When the user clicks outside of the password field, hide the message box
myInput.onblur = function () {
    document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function () {
    // Validate lowercase letters
    var lowerCaseLetters = /[a-z]/g;
    if (myInput.value.match(lowerCaseLetters)) {
        letter.classList.remove("invalid");
        letter.classList.add("valid");
    } else {
        letter.classList.remove("valid");
        letter.classList.add("invalid");
    }

    // Validate capital letters
    var upperCaseLetters = /[A-Z]/g;
    if (myInput.value.match(upperCaseLetters)) {
        capital.classList.remove("invalid");
        capital.classList.add("valid");
    } else {
        capital.classList.remove("valid");
        capital.classList.add("invalid");
    }

    // Validate numbers
    var numbers = /[0-9]/g;
    if (myInput.value.match(numbers)) {
        number.classList.remove("invalid");
        number.classList.add("valid");
    }
}

```

```

        } else {
            number.classList.remove("valid");
            number.classList.add("invalid");
        }

        // Validate length
        if (myInput.value.length >= 8) {
            length.classList.remove("invalid");
            length.classList.add("valid");
        } else {
            length.classList.remove("valid");
            length.classList.add("invalid");
        }
    }

function submitFunction() {
    var x;
    x = document.getElementById("age").value;
    if (isNaN(x) || x < 18) {
        alert("Age is not valid");
    }
    if(document.getElementById("Number").validity.rangeUnderflow) {
        alert("invalid Number");
    }
}
</script>
</body>

</html>
Registration.php
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Registration Success</title>
<link href='https://fonts.googleapis.com/css?family=Ubuntu' rel='stylesheet'>
<style type="text/css">
h1
{
    text-align: center;
}
h2
{
    text-align: center;
}
*{
    margin: 0;
    padding: 0;
}

```

```
body
{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;
}
.container
{
    margin-top: 50px;
    width: 85%;
    background-color: #FFFFFF;
    padding: 20px;
    border-radius: 8px;
    margin-bottom: 50px;
}
</style>
</head>
<body>
    <div class="container">
        <?php
            print("<h1>Registration Sucessful</h1>");
            print("<br><h2>Welcome to the registered world!!!</h2>");
            if($_GET["age"]) {
                echo "<h3>Welcome user : </h3>".$_GET['fname']."'".$_GET['lname']."
                !!!<br/><br/>";
                echo "<h3>You are ".$_GET['age']."' year old.</h3><br/>";
                echo "<h3>Your Gender is :: </h3>".$_GET['gender']."'<br/><br/>";
                echo "<h3>Your cell number is :: </h3>".$_GET['Number']."'<br/>";
                exit();
            }
        ?>
    </div>
</body>
</html>
```

Output

The image shows a Windows desktop environment with two browser windows open. The top window is titled "Login Page" and the bottom window is titled "Registration Page". Both windows display form fields for email and password, along with validation messages for password complexity. The desktop taskbar at the bottom shows various application icons and system status.

Login Page

Email address:
varunkhadayate0810@gmail.com

Password:
|

Password must contain the following:

- ✗ A lowercase letter
- ✗ A capital (uppercase) letter
- ✗ A number
- ✗ Minimum 8 characters

SUBMIT

Registration Page

First name:
Varun

Last name:
Khadayate

Email address:
varunkhadayate0810@gmail.com

Password:
|

Password must contain the following:

- ✗ A lowercase letter
- ✗ A capital (uppercase) letter
- ✗ A number
- ✗ Minimum 8 characters

Login Page

Registration Page

File | C:/xampp/htdocs/COLLEGE-MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGISTRATION/registration_prac_6.html

Varun

Last name:
Khadayate

Email address:
varunkhadayate0810@gmail.com

Password:
.....|

Password must contain the following:

- ✓ A lowercase letter
- ✓ A capital (uppercase) letter
- ✗ A number
- ✗ Minimum 8 characters

Age:

Gender:

Registration Page

File | C:/xampp/htdocs/COLLEGE-MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGISTRATION/registration_prac_6.html

34°C Smoke

Varun

Last name:
Khadayate

Email address:
varunkhadayate0810@gmail.com

Password:
.....

Age:
19

Gender:
Male

Cell Number:
9930737285|

SUBMIT

20:17 15-03-2022

34°C Smoke

20:17 15-03-2022

Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Create a homepage for a website using basic formatting tags in HTML.

Code

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
    <title>NMIMS Navi Mumbai</title>
</head>
```

```
<style>
```

```
*{
    top: 0;
    left: 0;
}
body {
    background: linear-gradient(rgb(252, 90, 90) , rgb(255, 161, 161),#fff, rgb(255, 161, 161), rgb(255, 23, 23));
    box-sizing: border-box;
    font-family:Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
}

#nmims{
    width: 100%;
    height: 500px;
}
hr{
    border: 1px solid black;
}

header {
    top: 0;
    left: 0;
    width: 100%;
    padding-bottom: 30px;
    padding-top: 10px;
    display: flex;
    justify-content: space-between;
    align-items: center;
    background: transparent;
    z-index: 1000;
}
header ul {
```

```

padding-right: 70px;
display: flex;
justify-content: center;
align-items: center;
}
header ul li {
list-style: none;
margin-left: 10px;
}
header ul li a {
text-decoration: none;
padding: 6px 15px;
color: rgb(0, 0, 0);
border-radius: 20px;
font-size: 20px;
font-weight: bolder;
}
header ul li a:hover, header ul li a.active{
background: rgb(255, 255, 255);
color: rgb(0, 0, 0);
}
header img {
padding-left: 20px;
width: 100px;
height: 100px;
}

```

</style>

</head>

<body>

```

<header>

<ul>
<li><a href="#" class="active">Home</a></li>
<li><a href="#">Register</a></li>
<li><a href="#schools">About</a></li>
<li><a href="#contact">Contact</a></li>
</ul>
</header>

<h1 style="color: rgb(0, 0, 0); text-align: center;">SVKM's Navi Mumbai</h1>
<p><b>Lorem ipsum</b> dolor sit amet consectetur adipisicing elit. Officia beatae  
voluptates, ratione possimus unde, repellat voluptatum illum nisi amet commodi est delectus  
expedita necessitatibus, hic excepturi maiores optio. Ipsum, eius.  
Facilis dicta dolorum, sed corporis doloremque molestias alias vero quibusdam magni  
consequatur? Maiores animi placeat consectetur ex! Quasi iste, autem possimus cumque alias  
blanditiis dolorum quis officia ab omnis quam?  
Veniam recusandae atque sunt eos perspiciatis, aliquid quo excepturi esse! Nam quam sed,  
repellat impedit illo praesentium id excepturi iure ab omnis, quis rem natus, obcaecati ipsa  
perferendis distinctio ratione?

```

Cumque eaque minima eius sequi ipsa cupiditate alias hic, deserunt aspernatur quos? Laborum ipsam quasi, qui eligendi aperiam fugit itaque sit consequuntur delectus, optio, rerum asperiores doloremque dolorem libero officia.

Ex expedita odio delectus nisi nobis quasi sapiente nemo qui facere. Cumque id omnis doloremque deleniti assumenda aperiam sed, dicta maiores! A, aspernatur maxime! Harum dignissimos optio excepturi minima laudantium.

Autem quia consequuntur repellat sit dolorem iste nemo culpa iusto nostrum, magnam, odio qui. Commodo nisi veritatis saepe dignissimos? Atque provident eos veritatis ut et blanditiis amet voluptatibus similique nam.

Ratione, cupiditate reprehenderit aut quos beatae eaque nobis nemo. Aperiam commodi, harum deserunt quas asperiores repellat aliquid quasi dicta fugiat mollitia impedit consectetur autem molestias repellendus beatae saepe dolores possimus.

Nobis facilis autem quia reiciendis iste delectus laudantium, praesentium harum repellat voluptate molestias laboriosam pariatur, nesciunt alias, quos dolores libero corporis? Molestiae aliquam laborum eos nihil! Aliquid molestiae corrupti exercitationem.

Consequuntur aperiam tempora sequi maxime cumque adipisci nihil ducimus quidem perspiciatis doloremque. Perspiciatis voluptate, consequatur dolores molestiae voluptas, fugit inventore quidem, ut sit maiores expedita deleniti repudiandae alias. Inventore, doloremque.

Repellendus accusantium, optio praesentium quaerat aspernatur sapiente consectetur incidentum ullam rerum soluta nam eligendi voluptatem doloribus dolor ipsa quas maxime eius repudiandae aliquid quam! Eos reprehenderit ut voluptas repudiandae ipsam?

Quisquam, architecto placeat eum ab at aliquid nisi vero? Corrupti repellendus provident, ipsa incident enim assumenda dicta odit nostrum reprehenderit, perspiciatis quaerat adipisci ut accusamus sunt expedita maiores sint ex.

Obcaecati, nam ab dolor reprehenderit non qui ea. Similique in, illum debitum eius, preferendis omnis ad ducimus nemo nisi accusamus repellat delectus soluta culpa porro laborum aliquid, dolores tempore? Minima!

Quis distinctio quo beatae maxime accusantium consequuntur! Ipsum consectetur placeat praesentium provident ab, hic, quasi nobis earum temporibus quas ipsam eius, atque qui quis impedit dolor quod nihil dolore repellat!

Dolore fugit autem voluptates, nobis aut laboriosam aliquid hic maxime animi possimus excepturi beatae doloremque eligendi quae eum incident iure eveniet cupiditate. Quidem, quisquam. Vero numquam non esse dicta voluptates.

Quibusdam perspiciatis ratione voluptate omnis nemo, repellat explicabo, eveniet placeat in animi et tempora ipsam! Porro ipsam et, fugit harum autem aliquam explicabo tempora repellat hic? Dolore molestias tempora molestiae?

Totam laborum beatae deserunt, quod sed dolore similique excepturi aut sunt. Fugiat, ipsum? Consequuntur in ratione hic? Quas, molestias, voluptates vel dolorem explicabo cum eius totam fugiat, reiciendis id similique.

Quisquam illo consequatur recusandae, nisi repellendus libero vel quos beatae animi deserunt architecto fugiat quo placeat porro blanditiis neque asperiores, necessitatibus a dolorem laborum. Vel nesciunt ex quo assumenda earum.

Dolore repellat quos beatae nulla cumque vero incident iure odit amet laborum, soluta, cum consequuntur. Magnam ipsam quas iste aperiam minima debitum eos maiores optio est. Soluta ea sed incident!

Quidem est porro explicabo. At ipsam vitae tenetur, earum excepturi pariatur nulla est incident natus aut quod adipisci voluptate quisquam, consequuntur autem iusto accusantium. Voluptates consequuntur eveniet quae quia deserunt!

Nisi obcaecati, fugit totam ipsum nobis facere esse aspernatur deleniti tempore facilis doloribus dolor eaque atque maxime perspiciatis, aliquam labore ullam repudiandae omnis eos fuga ipsam vel vero. Praesentium, optio.

Facilis molestiae, minima quisquam commodi nobis veniam soluta adipisci consequuntur pariatur, porro iusto odio neque veritatis, explicabo vero illum. Esse nam repellat rem aliquid rerum cumque quia sit fuga ut!

Voluptas aliquam aliquid modi voluptate laboriosam nisi quasi repudiandae sit optio eveniet doloremque quos doloribus beatae pariatur repellendus excepturi error assumenda, quas, perspiciatis alias placeat hic laudantium tempora. Voluptatem, soluta!

Natus, autem facere fugiat, ullam reiciendis veritatis debitibus nemo dolorem blanditiis dolore fugit quidem consequatur error? Eligendi aperiam nam minima, doloribus asperiores in repellendus repudiandae expedita beatae qui vel sapiente!

Accusantium asperiores explicabo, nostrum harum nulla ea tempora eum voluptatem esse! Temporibus asperiores illo adipisci optio numquam quas voluptates nemo aperiam, iste, omnis quibusdam veritatis molestias quos, aut pariatur. Maiores!

Sunt magnum similius sint ducimus architecto eius vel labore eos? Quod nulla eius qui omnis sapiente error, possimus dicta molestiae! Quo veritatis voluptates facilis aperiam, ex necessitatibus quod dolorem rerum?

Asperiores porro minus obcaecati blanditiis repellat accusamus? Eveniet modi error nisi vero iure, perferendis culpa sit amet ipsam quas dicta, cum minima sed, deleniti ipsum. Excepturi tenetur perferendis optio eveniet.

Harum exercitationem placeat sint unde! Repellat debitibus deleniti quis error at pariatur voluptates alias eos corrupti sapiente architecto voluptate nulla quisquam incident, nostrum recusandae omnis magnum soluta laboriosam, vero cumque.

Possimus veniam voluptate accusamus alias odit nihil, quisquam amet quaerat ratione. Nisi, doloremque! Sunt, corrupti reiciendis eum magni eius illum exercitationem aliquam maxime voluptatum, neque quo ea obcaecati corporis impedit?

Voluptates facere, expedita totam nemo perspiciatis porro corporis. Molestiae eligendi asperiores distinctio, excepturi at perspiciatis nulla porro autem, architecto tenetur necessitatibus. Explicabo doloribus in facere corporis non quaerat id. Soluta.

Non minima est hic magnum expedita rerum iste, nihil similius tenetur. Saepe corrupti sapiente suscipit nemo laudantium sunt vitae at quod nulla, reiciendis, non quasi? Quaerat blanditiis fuga ipsum quisquam.</p>

<hr>

```
<div id="schools">
    <h3 style="color: rgb(0, 0, 0);">Schools</h3>
    <hr>
    <ul>
        <li>STME</li>
        <li>SOL</li>
        <li>SOC</li>
        <li>SOHM</li>
    </ul>
</div>
<hr>
```

```
<div id="contact">
    <h3 style="color: rgb(0, 0, 0);">Contact Us</h3>
    <hr>
```

```

<p>Phone:- 022-3547 6550</p>
<p>Email:- <u>abc@xyz.com</u></p>
</div>
<hr>

<div id="visit">
    <h3 style="color: rgb(0, 0, 0); text-align: center;">Address</h3>
    <hr>
    <address style="text-align: center;"><em>Plot No. 2, Pethapada, Next to Ramsheth  

Thakur College,  

Sector 33, Kharghar, Navi Mumbai 410210. Maharashtra, India.</em></address>
    <br>
</div>

<div style="text-align: center;">
    <iframe  

src="https://www.google.com/maps/embed?pb=!m14!1m8!1m3!1d15083.942411906708!2  

d73.0777066!3d19.0643706!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x0%3A0xfb8df77eb24  

acba7!2sNMIMS%20Navi%20Mumbai!5e0!3m2!1sen!2sin!4v1639371966552!5m2!1sen!2si  

n" width="600" height="450" style="border:0;" allowfullscreen=""  

loading="lazy"></iframe>
</div>
<hr>

<footer style="background-color: rgb(255, 0, 0); color: rgb(0, 0, 0); text-align: center;">
    <i>Made by Aarjav Hansoti</i> <br>
    <i>A014 70362019022</i>
</footer>

```

```

<body>
    <nav class="navbar background">
        <ul class="nav-list">
            <div class="logo">
                
            </div>
            <li><a href="#web">Web Technology</a></li>
            <li><a href="#program">C Programming</a></li>
            <li><a href="#course">Courses</a></li>
        </ul>

        <div class="rightNav">
            <input type="text" name="search" id="search">
            <button class="btn btn-sm">Search</button>
        </div>
    </nav>

    <section class="firstsection">
        <div class="box-main">
            <div class="firstHalf">

```

```
<h1 class="text-big" id="web">
    Web Technology
</h1>

<p class="text-small">
    HTML stands for HyperText Markup
    Language. It is used to design
    web pages using a markup language.
    HTML is the combination of Hypertext
    and Markup language. Hypertext
    defines the link between the web
    pages. A markup language is used
    to define the text document within
    tag which defines the structure of
    web pages. HTML is a markup language
    that is used by the browser to
    manipulate text, images, and other
    content to display it in the required
    format.
</p>

</div>
</div>
</section>

<section class="secondsection">
    <div class="box-main">
        <div class="secondHalf">
            <h1 class="text-big" id="program">
                C Programming
            </h1>
            <p class="text-small">
                C is a procedural programming language.
                It was initially developed by Dennis
                Ritchie as a system programming
                language to write operating system.
                The main features of C language include
                low-level access to memory, simple set
                of keywords, and clean style, these
                features make C language suitable for
                system programming like operating system
                or compiler development.
            </p>

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

```
<section class="section">
    <div class="paras">
        <h1 class="sectionTag text-big">Java</h1>

        <p class="sectionSubTag text-small">
            Java has been one of the most
            popular programming language
            for many years. Java is Object
            Oriented. However it is not
            considered as pure object oriented
            as it provides support for primitive
            data types (like int, char, etc) The
            Java codes are first compiled into byte
            code (machine independent code). Then
            the byte code is run on Java Virtual
            Machine (JVM) regardless of the
            underlying architecture.
        </p>

    </div>

    <div class="thumbnail">
        
    </div>
</section>

<footer class="background">
    <p class="text-footer">
        Copyright ©-All rights are reserved
    </p>
</footer>
</body>

</html>
```

Output

The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** File | C:/xampp/htdocs/COLLEGE-MWA/PRACTICAL/PRAC_05/index.html
- Header:** Top Ranked University in India | NMIMS Navi Mumbai | New Tab
- Page Content:**
 - Logo:** NMIMS Deemed University logo.
 - Header Links:** Home, Register, About, Contact.
 - Main Text:** A large block of Latin placeholder text (Lorem ipsum) describing various legal and social concepts.
- Bottom Bar:** Includes icons for file operations, search, and various applications. It also shows system information: ENG IN, battery level, signal strength, and the date/time 17-03-2022 11:43.

Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Apply styling to Login and Registration forms using External CSS Code

Login.php

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Login Success</title>
<link href='https://fonts.googleapis.com/css?family=Ubuntu' rel='stylesheet'>
<style type="text/css">
h1
{
    text-align: center;
}
h2
{
    text-align: center;
}
*{
    margin: 0;
    padding: 0;
}
body
{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;
}
.container
{
    margin-top: 50px;
    width: 85%;
    background-color: #FFFFFF;
    padding: 20px;
    border-radius: 8px;
    margin-bottom: 50px;
}
</style>
</head>
<body>
<div class="container">
```

```

<?php
$pwd = "Varun@0810";
$Name = "Varun";
$Surname = "Khadayate";
$cell_no = "9930727285";
$email = "varunkhadayate0810@gmail.com";
if($pwd == $_GET["password"])
{
    print("<h1>Login Sucessful</h1>");
    print("<br><h2>Hello User!!!</h2>");
    print("<br><h2>Here are your Details</h2>");
    print("<br><h3> Name :: </h3>".$Name." ".$Surname);
    print("<br>");
    print("<br><h3> Cell Number :: </h3>".$cell_no);
    print("<br>");
    print("<br><h3> Email Address :: </h3>".$email);
}
else
{
    print("Password is incorrect");
}

?>
</div>
</body>
</html>

Login.html
<!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">
<link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
<link rel="stylesheet" href="PRAC_6.css">
<title>Login Page</title>
</head>

<body>
<div class="container">
<form
action="http://localhost/College%20MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGISTRATION/login.php" name="myform" method="get">
    <h1 style="text-align: center">Login Page</h1>
    <label for="email">Email address:</label>
    <input pattern="^([A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4})$" type="email" name="email" required /> <br />
    <label for="password">Password:</label><br>

```

```

<input type="password" name="password" id="password" pattern="(?=.*\d)(?=.*[a-zA-Z]).{8,}" required><br>
<div id="message">
    <h3>Password must contain the following:</h3>
    <p id="letter" class="invalid">A <b>lowercase</b> letter</p>
    <p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>
    <p id="number" class="invalid">A <b>number</b></p>
    <p id="length" class="invalid">Minimum <b>8</b> characters</p>
</div>
<input type="submit" value="SUBMIT" onclick="submitFunction()">
</form>
</div>

<script>
    var myInput = document.getElementById("password");
    var letter = document.getElementById("letter");
    var capital = document.getElementById("capital");
    var number = document.getElementById("number");
    var length = document.getElementById("length");

    // When the user clicks on the password field, show the message box
    myInput.onfocus = function () {
        document.getElementById("message").style.display = "block";
    }

    // When the user clicks outside of the password field, hide the message box
    myInput.onblur = function () {
        document.getElementById("message").style.display = "none";
    }

    // When the user starts to type something inside the password field
    myInput.onkeyup = function () {
        // Validate lowercase letters
        var lowerCaseLetters = /[a-z]/g;
        if (myInput.value.match(lowerCaseLetters)) {
            letter.classList.remove("invalid");
            letter.classList.add("valid");
        } else {
            letter.classList.remove("valid");
            letter.classList.add("invalid");
        }
    }

    // Validate capital letters
    var upperCaseLetters = /[A-Z]/g;
    if (myInput.value.match(upperCaseLetters)) {
        capital.classList.remove("invalid");
        capital.classList.add("valid");
    } else {
        capital.classList.remove("valid");
        capital.classList.add("invalid");
    }
</script>

```

```
}

// Validate numbers
var numbers = /[0-9]/g;
if (myInput.value.match(numbers)) {
    number.classList.remove("invalid");
    number.classList.add("valid");
} else {
    number.classList.remove("valid");
    number.classList.add("invalid");
}

// Validate length
if (myInput.value.length >= 8) {
    length.classList.remove("invalid");
    length.classList.add("valid");
} else {
    length.classList.remove("valid");
    length.classList.add("invalid");
}
}
</script>
</body>
```

```
</html>
```

```
Prac.css
```

```
*{
    margin: 0;
    padding: 0;
}
body{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;
}
```

```
input {
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
}
```

```
select {
    width: 100%;
```

```
padding: 12px;
border: 1px solid #ccc;
border-radius: 4px;
box-sizing: border-box;
margin-top: 6px;
margin-bottom: 16px;
}

/* Style the submit button */
input[type=submit] {
background-color: #EE4B2B;
color: white;
font-weight: bold;
}
input[type=submit]:hover {
color: black;
background-color: #880808;
}

/* Style the container for inputs */
.container {
margin-top: 50px;
width: 85%;
background-color: #FFFFFF;
padding: 20px;
border-radius: 8px;
margin-bottom: 50px;
}
/* The message box is shown when the user clicks on the password field */
#message {
display:none;
background: #f1f1f1;
color: #000;
position: relative;
padding: 20px;
margin-top: 10px;
}

#message p {
padding: 10px 35px;
font-size: 18px;
}

/* Add a green text color and a checkmark when the requirements are right */
.valid {
color: green;
}

.valid:before {
position: relative;
```

```
    left: -35px;
    content: "✓";
}

/* Add a red text color and an "x" when the requirements are wrong */
.invalid {
    color: red;
}

.invalid:before {
    position: relative;
    left: -35px;
    content: "✗";
}

Registration.php
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Registration Success</title>
<link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
<style type="text/css">
h1
{
    text-align: center;
}
h2
{
    text-align: center;
}
*{
    margin: 0;
    padding: 0;
}
body
{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;
}
.container
{
    margin-top: 50px;
    width: 85%;
    background-color: #FFFFFF;
    padding: 20px;
    border-radius: 8px;
```

```

        margin-bottom: 50px;
    }

```

```
</head>
```

```
<body>
```

```
    <div class="container">
```

```
    <?php
```

```
        print("<h1>Registration Sucessful</h1>");
```

```
        print("<br><h2>Welcome to the registered world!!!</h2>");
```

```
        if($_GET["age"]) {
```

```
            echo "<h3>Welcome user : </h3>".$_GET['fname']."'".$_GET['lname']."'";
```

```
        !!!<br/><br>";
```

```
        echo "<h3>You are ".$_GET['age']."' year old.</h3><br/>";
```

```
        echo "<h3>Your Gender is :: </h3>".$_GET['gender']."'<br/><br>";
```

```
        echo "<h3>Your cell number is :: </h3>".$_GET['Number']."'<br/>";
```

```
        exit();
```

```
    }
```

```
?>
```

```
</div>
```

```
</body>
```

```
</html>
```

Registration.html

```
<!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">
```

```
    <link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
```

```
    <link rel="stylesheet" href="PRAC_6.css">
```

```
    <title>Registration Page</title>
```

```
</head>
```

```
<body>
```

```
    <div class="container">
```

```
        <form
```

```
            action="http://localhost/College%20MWA/PRACTICAL/PRAC_06_LOGIN_AND_REGISTRATION/registration.php" name="myform">
```

```
                <h1 style="text-align: center">Registration Page</h1>
```

```
                <label for="fname">First name: </label><br>
```

```
                <input type="text" name="fname" id="fname" required><br>
```

```
                <label for="lname">Last name: </label><br>
```

```
                <input type="text" name="lname" id="lname" required><br>
```

```
                <label for="email">Email address:</label>
```

```
                <input type="email" id="email" required>
```

```
                <label for="password">Password: </label><br>
```

```
                <input type="password" name="password" id="password" pattern="(?=.*\d)(?=.*[a-zA-Z])(?=.*[A-Z]).{8,}" required><br>
```

```
                <div id="message">
```

```

<h3>Password must contain the following:</h3>
<p id="letter" class="invalid">A <b>lowercase</b> letter</p>
<p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>
<p id="number" class="invalid">A <b>number</b></p>
<p id="length" class="invalid">Minimum <b>8 characters</b></p>
</div>
<label for="age">Age: </label><br>
<input type="number" name="age" id="age" max="60" required><br>
<label for="gender">Gender: </label><br>
<select type="text" value="" name="gender" id="gender">
    <option>None</option>
    <option>Male</option>
    <option>Female</option>
</select>
<br> <br>
<label for="age">Cell Number: </label><br>
<input type="number" name="Number" id="Number" minlength="10" required><br>
<input type="submit" value="SUBMIT" onclick="submitFunction()">
</form>
<h3>Connect with me via the following</h3>
<a href="https://www.linkedin.com/in/varun-k-578711195/">
    
</a>
<a href="https://twitter.com/khadayate_varun">
    
</a>
<a href="https://twitter.com/khadayate_varun">
    
</a>
</div>

<script>
    var myInput = document.getElementById("password");
    var letter = document.getElementById("letter");
    var capital = document.getElementById("capital");
    var number = document.getElementById("number");
    var length = document.getElementById("length");

    // When the user clicks on the password field, show the message box
    myInput.onfocus = function () {
        document.getElementById("message").style.display = "block";
    }

    // When the user clicks outside of the password field, hide the message box

```

```

myInput.onblur = function () {
    document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function () {
    // Validate lowercase letters
    var lowerCaseLetters = /[a-z]/g;
    if (myInput.value.match(lowerCaseLetters)) {
        letter.classList.remove("invalid");
        letter.classList.add("valid");
    } else {
        letter.classList.remove("valid");
        letter.classList.add("invalid");
    }
}

// Validate capital letters
var upperCaseLetters = /[A-Z]/g;
if (myInput.value.match(upperCaseLetters)) {
    capital.classList.remove("invalid");
    capital.classList.add("valid");
} else {
    capital.classList.remove("valid");
    capital.classList.add("invalid");
}

// Validate numbers
var numbers = /[0-9]/g;
if (myInput.value.match(numbers)) {
    number.classList.remove("invalid");
    number.classList.add("valid");
} else {
    number.classList.remove("valid");
    number.classList.add("invalid");
}

// Validate length
if (myInput.value.length >= 8) {
    length.classList.remove("invalid");
    length.classList.add("valid");
} else {
    length.classList.remove("valid");
    length.classList.add("invalid");
}
}

function submitFunction() {
    var x;
    x = document.getElementById("age").value;
    if (isNaN(x) || x < 18) {

```

```

        alert("Age is not valid");
    }
    if(document.getElementById("Number").validity.rangeUnderflow) {
        alert("invalid Number");
    }
}
</script>
</body>

</html>

```

Output

The image shows two screenshots of a web browser window. The top screenshot displays the 'Login Page' with fields for 'Email address:' and 'Password:' and a red 'SUBMIT' button. The bottom screenshot displays the 'Registration Page' with fields for 'First name:', 'Last name:', 'Email address:' (which has a validation message 'Please fill out this field.'), 'Password:', 'Age:', 'Gender:' (with a dropdown menu showing 'None'), and 'Cell Number:'.

Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Validation of HTML Forms using JavaScript

Code

Prac.html

```
<!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">
<link href="https://fonts.googleapis.com/css?family=Ubuntu" rel='stylesheet'>
<link rel="stylesheet" href="PRAC_7.css">
<title>Form Validation</title>
</head>

<body>
<div class="container">
<form action="#" name="myform">
    <h1 style="text-align: center">VALIDATION FORM</h1>
    <label for="fname">First name: </label><br>
    <input type="text" name="fname" id="fname" required><br>
    <label for="lname">Last name: </label><br>
    <input type="text" name="lname" id="lname" required><br>
    <label for="password">Password: </label><br>
    <input type="password" name="password" id="password" pattern="(?=.*\d)(?=.*[a-zA-Z])(?=.*[A-Z]).{8,}" required><br>
    <div id="message">
        <h3>Password must contain the following:</h3>
        <p id="letter" class="invalid">A <b>lowercase</b> letter</p>
        <p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>
        <p id="number" class="invalid">A <b>number</b></p>
        <p id="length" class="invalid">Minimum <b>8 characters</b></p>
    </div>
    <label for="age">Age: </label><br>
    <input type="number" name="age" id="age" required><br>
    <label for="age">Cell Number: </label><br>
    <input type="number" name="Number" id="Number" minlength="10" required><br>
    <input type="submit" value="SUBMIT" onclick="submitFunction()">
</form>
</div>

<script>
var myInput = document.getElementById("password");
var letter = document.getElementById("letter");
```

```

var capital = document.getElementById("capital");
var number = document.getElementById("number");
var length = document.getElementById("length");

// When the user clicks on the password field, show the message box
myInput.onfocus = function () {
    document.getElementById("message").style.display = "block";
}

// When the user clicks outside of the password field, hide the message box
myInput.onblur = function () {
    document.getElementById("message").style.display = "none";
}

// When the user starts to type something inside the password field
myInput.onkeyup = function () {
    // Validate lowercase letters
    var lowerCaseLetters = /[a-z]/g;
    if (myInput.value.match(lowerCaseLetters)) {
        letter.classList.remove("invalid");
        letter.classList.add("valid");
    } else {
        letter.classList.remove("valid");
        letter.classList.add("invalid");
    }
}

// Validate capital letters
var upperCaseLetters = /[A-Z]/g;
if (myInput.value.match(upperCaseLetters)) {
    capital.classList.remove("invalid");
    capital.classList.add("valid");
} else {
    capital.classList.remove("valid");
    capital.classList.add("invalid");
}

// Validate numbers
var numbers = /[0-9]/g;
if (myInput.value.match(numbers)) {
    number.classList.remove("invalid");
    number.classList.add("valid");
} else {
    number.classList.remove("valid");
    number.classList.add("invalid");
}

// Validate length
if (myInput.value.length >= 8) {
    length.classList.remove("invalid");
    length.classList.add("valid");
}

```

```

        } else {
            length.classList.remove("valid");
            length.classList.add("invalid");
        }
    }

function submitFunction() {
    var x;
    x = document.getElementById("age").value;
    if (isNaN(x) || x < 18) {
        alert("Age is not valid");
    }
    if(document.getElementById("Number").validity.rangeUnderflow) {
        alert("invalid Number");
    }
}
</script>
</body>

</html>
Prac.css
*{
    margin: 0;
    padding: 0;
}
body{
    font-family: 'Ubuntu', sans-serif;
    background: #4288c8;
    display: flex;
    justify-content: center;
    align-items: center;
}

input {
    width: 100%;
    padding: 12px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
}

/* Style the submit button */
input[type=submit] {
    background-color: #EE4B2B;
    color: white;
    font-weight: bold;
}
input[type=submit]:hover {

```

```
color: black;
background-color: #880808;
}

/* Style the container for inputs */
.container {
    margin-top: 50px;
    width: 85%;
    background-color: #FFFFFF;
    padding: 20px;
    border-radius: 8px;
}
/* The message box is shown when the user clicks on the password field */
#message {
    display:none;
    background: #f1f1f1;
    color: #000;
    position: relative;
    padding: 20px;
    margin-top: 10px;
}

#message p {
    padding: 10px 35px;
    font-size: 18px;
}

/* Add a green text color and a checkmark when the requirements are right */
.valid {
    color: green;
}

.valid:before {
    position: relative;
    left: -35px;
    content: "✓";
}

/* Add a red text color and an "x" when the requirements are wrong */
.invalid {
    color: red;
}

.invalid:before {
    position: relative;
    left: -35px;
    content: "✗";
}
```

Output

The screenshot shows a Microsoft Edge browser window with the title bar displaying multiple open tabs. The active tab's URL is `C:/xampp/htdocs/COLLEGE-MWA/PRACTICAL/PRAC_07.HTML_form_validation/PRAC_7.Html`. The main content area contains a form titled "VALIDATION FORM". The form includes five input fields: "First name:", "Last name:", "Password:", "Age:", and "Cell Number:". Below these fields is a large orange "SUBMIT" button. The browser's taskbar at the bottom shows various pinned icons and system status indicators.

VALIDATION FORM

First name:

Last name:

Password:

Age:

Cell Number:

SUBMIT

Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Designing Bootstrap Application

Code

Prac8.html

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="utf-8">
<meta content="width=device-width, initial-scale=1.0" name="viewport">

<title>Varun Mahendra Khadayate</title>
<meta content="" name="description">
<meta content="" name="keywords">

<!-- Favicons -->
<link href="assets/img/favicon.png" rel="icon">
<link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

<!-- Google Fonts -->
<link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,700,700i|Poppi
ns:300,400,500,700" rel="stylesheet">

<!-- Vendor CSS Files -->
<link href="assets/vendor/aos/aos.css" rel="stylesheet">
<link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
<link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
<link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
<link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
<link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

<!-- Template Main CSS File -->
<link href="assets/css/style.css" rel="stylesheet">
</head>

<body>

<!-- ===== Header ===== -->
<header id="header" class="fixed-top d-flex align-items-center header-transparent">
<div class="container d-flex justify-content-between align-items-center">

<div id="logo">
<h1><a href="index.html">Varun Khadayate</a></h1>
</div>
```

```

<nav id="navbar" class="navbar">
  <ul>
    <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
    <li><a class="nav-link scrollto" href="#about">About</a></li>
    <li><a class="nav-link scrollto" href="#facts">Facts</a></li>
    <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
  </ul>
  <i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- .navbar -->
</div>
</header><!-- End Header -->

<!-- ===== Hero Section ===== -->
<section id="hero">
  <div class="hero-container" data-aos="zoom-in" data-aos-delay="100">
    <h1>Welcome to My Website</h1>
    <h2>My Name is Varun Khadayate and I am a third Year Student at NMIMS Navi Mumbai</h2>
    <a href="#about" class="btn-get-started">Get Started</a>
  </div>
</section><!-- End Hero Section -->

<main id="main">

  <!-- ===== About Section ===== -->
  <section id="about">
    <div class="container" data-aos="fade-up">
      <div class="row about-container">

        <div class="col-lg-6 content order-lg-1 order-2">
          <h2 class="title">About me</h2>
          <p>
            A Learner,
            Born in the state of Gujarat, living in places of forts, dams, and scenery Panvel. A student in NMIMS is deemed to be a university, currently in TY Btech, Co-Head Manthan Tech Club in the college, IAM Manager intern at Virtually Testing Foundation. Travel enthusiasts, Fond of Music, Art, and Nature. Always open to all who need help and also to ask for help ;) Passionate about Coding, learning IoT, SQL, Database Management, cybersecurity, Cloud computing, Big data, and ML, have extensive experience in languages like C, C++, Python, SQL, R, HTML... Seeking for connecting with all of you and sharing and learning new ideas
          </p>
        <div class="icon-box" data-aos="fade-up" data-aos-delay="100">
          <div class="icon"><i class="bi bi-briefcase"></i></div>
          <h4 class="title"><a href="">Internship Experience</a></h4>
          <p class="description">1 Year of Experience at Virtually Testing Foundation<br>1 month of experience in GPCSSI-21<br>1 month of experience in Sparks Foundation</p>
        </div>
      </div>
    </div>
  </section>
</main>

```

```
</div>

<div class="icon-box" data-aos="fade-up" data-aos-delay="200">
  <div class="icon"><i class="bi bi-card-checklist"></i></div>
  <h4 class="title"><a href="">College Activities</a></h4>
  <p class="description">Co-Head of Manthan Tech Club</p>
</div>

<div class="icon-box" data-aos="fade-up" data-aos-delay="300">
  <div class="icon"><i class="bi bi-binoculars"></i></div>
  <h4 class="title"><a href="">Certificates Achieved</a></h4>
  <p class="description">Have gathered almost 35+ certificates whose link is in my
GitHub account.</p>
</div>

</div>

<div class="col-lg-6 background order-lg-2 order-1" data-aos="fade-left" data-aos-
delay="100"></div>
</div>

</div>
</section><!-- End About Section -->

<!-- ===== Facts Section ===== -->
<section id="facts">
  <div class="container" data-aos="fade-up">
    <div class="section-header">
      <h3 class="section-title">Facts about me</h3>
      <p class="section-description">Here are some facts you want to know about me</p>
    </div>
    <div class="row counters">

      <div class="col-lg-3 col-6 text-center">
        <span data-purecounter-start="0" data-purecounter-end="1" data-purecounter-
duration="1" class="purecounter"></span>
        <p>Years of Internship Experience</p>
      </div>

      <div class="col-lg-3 col-6 text-center">
        <span data-purecounter-start="0" data-purecounter-end="10" data-purecounter-
duration="1" class="purecounter"></span>
        <p>Projects</p>
      </div>

      <div class="col-lg-3 col-6 text-center">
        <span data-purecounter-start="0" data-purecounter-end="20" data-purecounter-
duration="1" class="purecounter"></span>
        <p>Hours Of Work daily for Projects</p>
      </div>
    </div>
  </div>
</section>
```

```

<div class="col-lg-3 col-6 text-center">
  <span data-purecounter-start="0" data-purecounter-end="42" data-purecounter-duration="1" class="purecounter"></span>
  <p>Extracurricular works done</p>
</div>

</div>
</section><!-- End Facts Section -->

<!-- ===== Call To Action Section ===== -->
<section id="call-to-action">
  <div class="container">
    <div class="row" data-aos="zoom-in">
      <div class="col-lg-9 text-center text-lg-start">
        <h3 class="cta-title">Ways to contact me</h3>
        <p class="cta-text">You can contact me via mail, call or via social media platforms like LinkedIn Instagram Facebook and Github.</p>
      </div>
      <div class="col-lg-3 cta-btn-container text-center">
        <a class="cta-btn align-middle" href="#">Call To Action</a>
      </div>
    </div>
  </div>
</div>

<!-- ===== Contact Section ===== -->
<section id="contact">
  <div class="container">
    <div class="section-header">
      <h3 class="section-title">Contact</h3>
      <p class="section-description">You can contact me via Mail or via sending a message here.</p>
    </div>
  </div>
</div>

<div class="container mt-5">
  <div class="row justify-content-center">
    <div class="col-lg-3 col-md-4">
      <div class="info">
        <div>
          <i class="bi bi-geo-alt"></i>
          <p>NMIMS<br>Navimumbai, Kharghar</p>
        </div>
        <div>

```

```
<i class="bi bi-envelope"></i>
<p>varunkhadayate0810@gmail.com</p>
</div>

<div>
  <i class="bi bi-phone"></i>
  <p>+91 9930727285</p>
</div>
</div>

<div class="social-links">
  <a href="https://twitter.com/khadayate_varun" class="twitter"><i class="bi bi-twitter"></i></a>
  <a href="https://www.facebook.com/profile.php?id=100033868721750" class="facebook"><i class="bi bi-facebook"></i></a>
  <a href="https://www.instagram.com/vk_08_10/" class="instagram"><i class="bi bi-instagram"></i></a>
  <a href="https://github.com/vk0810-k" class="Github"><i class="bi bi-github"></i></a>
  <a href="https://www.linkedin.com/in/varun-k-578711195/" class="linkedin"><i class="bi bi-linkedin"></i></a>
</div>

</div>

<div class="col-lg-5 col-md-8">
  <div class="form">
    <form action="forms/contact.php" method="post" role="form" class="php-email-form">
      <div class="form-group">
        <input type="text" name="name" class="form-control" id="name" placeholder="Your Name" required>
      </div>
      <div class="form-group mt-3">
        <input type="email" class="form-control" name="email" id="email" placeholder="Your Email" required>
      </div>
      <div class="form-group mt-3">
        <input type="text" class="form-control" name="subject" id="subject" placeholder="Subject" required>
      </div>
      <div class="form-group mt-3">
        <textarea class="form-control" name="message" rows="5" placeholder="Message" required></textarea>
      </div>
      <div class="my-3">
        <div class="loading">Loading</div>
        <div class="error-message"></div>
        <div class="sent-message">Your message has been sent. Thank you!</div>
      </div>
    </form>
  </div>
</div>
```

```

        <div class="text-center"><button type="submit">Send Message</button></div>
        </form>
    </div>
</div>

</div>
</section><!-- End Contact Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">
    <div class="footer-top">
        <div class="container">
            </div>
        </div>
    </div>

    <div class="container">
        <div class="copyright">
            &copy; Copyright <strong>Varun Mahendra Khadayate</strong>. All Rights Reserved
        </div>
        <div class="credits">
            <!--
                All the links in the footer should remain intact.
                You can delete the links only if you purchased the pro version.
                Licensing information: https://bootstrapmade.com/license/
                Purchase the pro version with working PHP/AJAX contact form:
                https://bootstrapmade.com/buy/?theme=Regna
            -->
            Designed by Varun Khadayte
        </div>
    </div>
</footer><!-- End Footer -->

<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i
class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/purecounter/purecounter.js"></script>
<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

<!-- Template Main JS File -->

```

```
<script src="assets/js/main.js"></script>

</body>

</html>
Style.css
body {
    background: #fff;
    color: #666666;
    font-family: "Open Sans", sans-serif;
}

a {
    color: #2dc997;
    text-decoration: none;
}

a:hover, a:active, a:focus {
    color: #2dca98;
    outline: none;
    text-decoration: none;
}

p {
    padding: 0;
    margin: 0 0 30px 0;
}

h1, h2, h3, h4, h5, h6 {
    font-family: "Poppins", sans-serif;
    font-weight: 400;
    margin: 0 0 20px 0;
    padding: 0;
}

/*
-----#
# Back to top button
-----*/
.back-to-top {
    position: fixed;
    visibility: hidden;
    opacity: 0;
    right: 15px;
    bottom: 15px;
    z-index: 996;
    background: #2dc997;
    width: 40px;
    height: 40px;
    border-radius: 4px;
    transition: all 0.4s;
```

```
}

.back-to-top i {
  font-size: 28px;
  color: #fff;
  line-height: 0;
}
.back-to-top:hover {
  background: #49d6a9;
  color: #fff;
}
.back-to-top.active {
  visibility: visible;
  opacity: 1;
}

/*-----
# Disable AOS delay on mobile
-----*/
@media screen and (max-width: 768px) {
  [data-aos-delay] {
    transition-delay: 0 !important;
  }
}

/*-----
# Header
-----*/
#header {
  height: 90px;
  transition: all 0.5s;
  z-index: 997;
  background: rgba(52, 59, 64, 0.9);
}
#header #logo h1 {
  font-size: 32px;
  margin: 0;
  line-height: 1;
  font-family: "Poppins", sans-serif;
  font-weight: 700;
  letter-spacing: 3px;
  text-transform: uppercase;
}
#header #logo h1 a, #header #logo h1 a:hover {
  color: #fff;
}
#header #logo img {
  padding: 0;
  margin: 0;
}
#header.header-transparent {
  background: transparent;
```

```
}

#header.header-scrolled {
    background: rgba(52, 59, 64, 0.9);
    height: 70px;
    transition: all 0.5s;
}

.scrolled-offset {
    margin-top: 70px;
}

/*-----
# Navigation Menu
-----*/
/***
* Desktop Navigation
*/
.navbar {
    padding: 0;
}
.navbar ul {
    margin: 0;
    padding: 0;
    display: flex;
    list-style: none;
    align-items: center;
}
.navbar li {
    position: relative;
}
.navbar > ul > li {
    white-space: nowrap;
    padding: 10px 0 10px 24px;
}
.navbar a, .navbar a:focus {
    display: flex;
    align-items: center;
    justify-content: space-between;
    font-family: "Poppins", sans-serif;
    color: #fff;
    font-size: 14px;
    padding: 0 4px;
    white-space: nowrap;
    transition: 0.3s;
    letter-spacing: 0.4px;
    position: relative;
    text-transform: uppercase;
}
.navbar a i, .navbar a:focus i {
    font-size: 12px;
```

```
line-height: 0;
margin-left: 5px;
}
.navbar > ul > li > a:before {
content: "";
position: absolute;
width: 100%;
height: 2px;
bottom: -6px;
left: 0;
background-color: #2dc997;
visibility: hidden;
transform: scaleX(0);
transition: all 0.3s ease-in-out 0s;
}
.navbar a:hover:before, .navbar li:hover > a:before, .navbar .active:before {
visibility: visible;
transform: scaleX(1);
}
.navbar a:hover, .navbar .active, .navbar .active:focus, .navbar li:hover > a {
color: #fff;
}
.navbar .dropdown ul {
display: block;
position: absolute;
left: 24px;
top: calc(100% + 30px);
margin: 0;
padding: 10px 0;
z-index: 99;
opacity: 0;
visibility: hidden;
background: #fff;
box-shadow: 0px 0px 30px rgba(127, 137, 161, 0.25);
transition: 0.3s;
}
.navbar .dropdown ul li {
min-width: 200px;
}
.navbar .dropdown ul a {
padding: 10px 20px;
font-size: 14px;
text-transform: none;
color: #666666;
}
.navbar .dropdown ul a i {
font-size: 12px;
}
.navbar .dropdown ul a:hover, .navbar .dropdown ul .active:hover, .navbar .dropdown ul li:hover > a {
```

```
color: #2dc997;
}
.navbar .dropdown:hover > ul {
  opacity: 1;
  top: 100%;
  visibility: visible;
}
.navbar .dropdown .dropdown ul {
  top: 0;
  left: calc(100% - 30px);
  visibility: hidden;
}
.navbar .dropdown .dropdown:hover > ul {
  opacity: 1;
  top: 0;
  left: 100%;
  visibility: visible;
}
@media (max-width: 1366px) {
  .navbar .dropdown .dropdown ul {
    left: -90%;
  }
  .navbar .dropdown .dropdown:hover > ul {
    left: -100%;
  }
}
/***
 * Mobile Navigation
 */
.mobile-nav-toggle {
  color: #fff;
  font-size: 28px;
  cursor: pointer;
  display: none;
  line-height: 0;
  transition: 0.5s;
}
@media (max-width: 991px) {
  .mobile-nav-toggle {
    display: block;
  }
}
.navbar ul {
  display: none;
}
.navbar-mobile {
  position: fixed;
```

```
overflow: hidden;
top: 0;
right: 0;
left: 0;
bottom: 0;
background: rgba(77, 77, 77, 0.9);
transition: 0.3s;
z-index: 999;
}
.navbar-mobile .mobile-nav-toggle {
position: absolute;
top: 15px;
right: 15px;
}
.navbar-mobile ul {
display: block;
position: absolute;
top: 55px;
right: 15px;
bottom: 15px;
left: 15px;
padding: 10px 0;
background-color: #fff;
overflow-y: auto;
transition: 0.3s;
}
.navbar-mobile > ul > li {
padding: 0;
}
.navbar-mobile a:hover:before, .navbar-mobile li:hover > a:before, .navbar-mobile .active:before {
visibility: hidden;
}
.navbar-mobile a, .navbar-mobile a:focus {
padding: 10px 20px;
font-size: 15px;
color: #666666;
}
.navbar-mobile a:hover, .navbar-mobile .active, .navbar-mobile li:hover > a {
color: #2dc997;
}
.navbar-mobile .getstarted, .navbar-mobile .getstarted:focus {
margin: 15px;
}
.navbar-mobile .dropdown ul {
position: static;
display: none;
margin: 10px 20px;
padding: 10px 0;
z-index: 99;
```

```
    opacity: 1;
    visibility: visible;
    background: #fff;
    box-shadow: 0px 0px 30px rgba(127, 137, 161, 0.25);
}
.navbar-mobile .dropdown ul li {
    min-width: 200px;
}
.navbar-mobile .dropdown ul a {
    padding: 10px 20px;
}
.navbar-mobile .dropdown ul a i {
    font-size: 12px;
}
.navbar-mobile .dropdown ul a:hover, .navbar-mobile .dropdown ul .active:hover, .navbar-mobile .dropdown ul li:hover > a {
    color: #2dc997;
}
.navbar-mobile .dropdown > .dropdown-active {
    display: block;
}

/*-----
# Hero Section
-----*/
#hero {
    width: 100%;
    height: 100vh;
    background: url(..//img/hero-bg.jpg) top center;
    background-size: cover;
    position: relative;
}
@media (min-width: 1024px) {
    #hero {
        background-attachment: fixed;
    }
}
#hero:before {
    content: "";
    background: rgba(0, 0, 0, 0.6);
    position: absolute;
    bottom: 0;
    top: 0;
    left: 0;
    right: 0;
}
#hero .hero-container {
    position: absolute;
    bottom: 0;
    top: 0;
```

```
left: 0;
right: 0;
display: flex;
justify-content: center;
align-items: center;
flex-direction: column;
text-align: center;
}
#hero h1 {
margin: 30px 0 10px 0;
font-size: 48px;
font-weight: 700;
line-height: 56px;
text-transform: uppercase;
color: #fff;
}
@media (max-width: 768px) {
#hero h1 {
font-size: 28px;
line-height: 36px;
}
}
#hero h2 {
color: #eee;
margin-bottom: 50px;
font-size: 24px;
}
@media (max-width: 768px) {
#hero h2 {
font-size: 18px;
line-height: 24px;
margin-bottom: 30px;
}
}
#hero .btn-get-started {
font-family: "Poppins", sans-serif;
text-transform: uppercase;
font-weight: 500;
font-size: 16px;
letter-spacing: 1px;
display: inline-block;
padding: 8px 28px;
border-radius: 50px;
transition: 0.5s;
margin: 10px;
border: 2px solid #fff;
color: #fff;
}
#hero .btn-get-started:hover {
background: #2dc997;
```

```
border: 2px solid #2dc997;
}

/*-----
# Sections
-----*/
section {
  overflow: hidden;
}

/* Sections Header
-----*/
.section-header .section-title {
  font-size: 32px;
  color: #111;
  text-transform: uppercase;
  text-align: center;
  font-weight: 700;
  margin-bottom: 5px;
}
.section-header .section-description {
  text-align: center;
  padding-bottom: 40px;
  color: #999;
}

/*-----
# Breadcrumbs
-----*/
.breadcrumbs {
  padding: 20px 0;
  background-color: whitesmoke;
  min-height: 40px;
  margin-top: 92px;
}
.breadcrumbs h2 {
  font-size: 24px;
  font-weight: 300;
  margin: 0;
}
@media (max-width: 992px) {
  .breadcrumbs h2 {
    margin: 0 0 10px 0;
  }
}
.breadcrumbs ol {
  display: flex;
  flex-wrap: wrap;
  list-style: none;
  padding: 0;
```

```
margin: 0;
font-size: 14px;
}
.breadcrumbs ol li + li {
padding-left: 10px;
}
.breadcrumbs ol li + li::before {
display: inline-block;
padding-right: 10px;
color: #6c757d;
content: "/";
}
@media (max-width: 768px) {
.breadcrumbs .d-flex {
display: block !important;
}
.breadcrumbs ol {
display: block;
}
.breadcrumbs ol li {
display: inline-block;
}
}
/* About Us Section
-----*/
#about {
background: #fff;
padding: 80px 0;
}
#about .about-container .background {
min-height: 300px;
background: url(..//img/about-img.png) center top no-repeat;
margin-bottom: 10px;
}
#about .about-container .content {
background: #fff;
}
#about .about-container .title {
color: #333;
font-weight: 700;
font-size: 32px;
}
@media (max-width: 768px) {
#about .about-container .title {
padding-top: 15px;
}
}
#about .about-container p {
line-height: 26px;
```

```
}

#about .about-container p:last-child {
  margin-bottom: 0;
}

#about .about-container .icon-box {
  background: #fff;
  background-size: cover;
  padding: 0 0 30px 0;
}

#about .about-container .icon-box .icon {
  float: left;
  background: #fff;
  width: 64px;
  height: 64px;
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
  text-align: center;
  border-radius: 50%;
  border: 2px solid #2dc997;
}

#about .about-container .icon-box .icon i {
  color: #2dc997;
  font-size: 24px;
  line-height: 0;
}

#about .about-container .icon-box .title {
  margin-left: 80px;
  font-weight: 500;
  margin-bottom: 5px;
  font-size: 18px;
  text-transform: uppercase;
}

#about .about-container .icon-box .title a {
  color: #111;
}

#about .about-container .icon-box .description {
  margin-left: 80px;
  line-height: 24px;
  font-size: 14px;
}

/* Facts Section
-----
#facts {
  background: #f7f7f7;
  padding: 80px 0 60px 0;
}
#facts .counters span {
```

```
font-size: 48px;
display: block;
color: #2dc997;
}
#facts .counters p {
padding: 0;
margin: 0 0 20px 0;
font-family: "Poppins", sans-serif;
font-size: 14px;
}

/* Services Section
-----*/
#services {
background: #fff;
background-size: cover;
padding: 80px 0 60px 0;
}
#services .box {
padding: 50px 20px;
margin-bottom: 50px;
text-align: center;
border: 1px solid #e6e6e6;
height: 200px;
position: relative;
background: #fafafa;
}
#services .icon {
position: absolute;
top: -36px;
left: calc(50% - 36px);
transition: 0.2s;
border-radius: 50%;
border: 6px solid #fff;
display: flex;
justify-content: center;
align-items: center;
flex-direction: column;
text-align: center;
width: 72px;
height: 72px;
background: #2dc997;
}
#services .icon a {
display: inline-block;
}
#services .icon i {
color: #fff;
font-size: 24px;
line-height: 0;
```

```
}

#services .box:hover .icon {
  background: #fff;
  border: 2px solid #2dc997;
}
#services .box:hover .icon i {
  color: #2dc997;
}
#services .box:hover .icon a {
  color: #2dc997;
}
#services .title {
  font-weight: 700;
  font-size: 18px;
  margin-bottom: 15px;
  text-transform: uppercase;
}
#services .title a {
  color: #111;
}
#services .description {
  font-size: 14px;
  line-height: 24px;
}

/* Call To Action Section
-----*/
#call-to-action {
  background: linear-gradient(rgba(0, 0, 0, 0.6), rgba(0, 0, 0, 0.6)), url(..../img/call-to-action-
bg.jpg) fixed center center;
  background-size: cover;
  padding: 80px 0;
}
@media (max-width: 1024px) {
  #call-to-action {
    background-attachment: scroll;
  }
}
#call-to-action .cta-title {
  color: #fff;
  font-size: 28px;
  font-weight: 700;
}
#call-to-action .cta-text {
  color: #fff;
}
@media (min-width: 769px) {
  #call-to-action .cta-btn-container {
    display: flex;
    align-items: center;
  }
}
```

```
justify-content: flex-end;
}
}
#call-to-action .cta-btn {
font-family: "Poppins", sans-serif;
text-transform: uppercase;
font-weight: 500;
font-size: 16px;
letter-spacing: 1px;
display: inline-block;
padding: 8px 30px;
border-radius: 50px;
transition: 0.5s;
margin: 10px;
border: 2px solid #fff;
color: #fff;
}
#call-to-action .cta-btn:hover {
background: #2dc997;
border: 2px solid #2dc997;
}

/* Portfolio Section
-----*/
#portfolio {
background: #f7f7f7;
padding: 80px 0;
}
#portfolio #portfolio-filters {
padding: 0;
margin: 0 auto 25px auto;
list-style: none;
text-align: center;
border-radius: 50px;
}
#portfolio #portfolio-filters li {
cursor: pointer;
display: inline-block;
padding: 12px 18px 14px 18px;
font-size: 14px;
font-weight: 500;
line-height: 1;
color: #666666;
margin: 0 5px 10px 5px;
transition: all ease-in-out 0.3s;
background: white;
border-radius: 4px;
}
#portfolio #portfolio-filters li:hover, #portfolio #portfolio-filters li.filter-active {
color: #fff;
```

```
background: #2dc997;
}
#portfolio #portfolio-filters li:last-child {
  margin-right: 0;
}
#portfolio .portfolio-item {
  margin-bottom: 30px;
  overflow: hidden;
}
#portfolio .portfolio-item img {
  position: relative;
  top: 0;
  transition: all 0.6s cubic-bezier(0.645, 0.045, 0.355, 1);
}
#portfolio .portfolio-item .portfolio-info {
  opacity: 0;
  position: absolute;
  left: 12px;
  right: 12px;
  bottom: -50px;
  z-index: 3;
  transition: all ease-in-out 0.3s;
  background: #2dc997;
  padding: 15px 20px;
}
#portfolio .portfolio-item .portfolio-info h4 {
  font-size: 18px;
  color: #fff;
  font-weight: 600;
}
#portfolio .portfolio-item .portfolio-info p {
  color: #fff;
  font-size: 14px;
  margin-bottom: 0;
}
#portfolio .portfolio-item .portfolio-info .preview-link, #portfolio .portfolio-item .portfolio-info .details-link {
  position: absolute;
  right: 50px;
  font-size: 24px;
  top: calc(50% - 18px);
  color: white;
  transition: ease-in-out 0.3s;
}
#portfolio .portfolio-item .portfolio-info .preview-link:hover, #portfolio .portfolio-item .portfolio-info .details-link:hover {
  color: #a4ebd4;
}
#portfolio .portfolio-item .portfolio-info .details-link {
  right: 15px;
```

```
}

#portfolio .portfolio-item:hover img {
  top: -30px;
}
#portfolio .portfolio-item:hover .portfolio-info {
  opacity: 1;
  bottom: 0;
}

/*
-----#
# Portfolio Details
-----*/
.portfolio-details {
  padding-top: 40px;
}
.portfolio-details .portfolio-details-slider img {
  width: 100%;
}
.portfolio-details .portfolio-details-slider .swiper-pagination {
  margin-top: 20px;
  position: relative;
}
.portfolio-details .portfolio-details-slider .swiper-pagination .swiper-pagination-bullet {
  width: 12px;
  height: 12px;
  background-color: #fff;
  opacity: 1;
  border: 1px solid #2dc997;
}
.portfolio-details .portfolio-details-slider .swiper-pagination .swiper-pagination-bullet-active {
  background-color: #2dc997;
}
.portfolio-details .portfolio-info {
  padding: 30px;
  box-shadow: 0px 0 30px rgba(102, 102, 102, 0.08);
}
.portfolio-details .portfolio-info h3 {
  font-size: 22px;
  font-weight: 700;
  margin-bottom: 20px;
  padding-bottom: 20px;
  border-bottom: 1px solid #eee;
}
.portfolio-details .portfolio-info ul {
  list-style: none;
  padding: 0;
  font-size: 15px;
}
.portfolio-details .portfolio-info ul li + li {
```

```
margin-top: 10px;
}
.portfolio-details .portfolio-description {
  padding-top: 30px;
}
.portfolio-details .portfolio-description h2 {
  font-size: 26px;
  font-weight: 700;
  margin-bottom: 20px;
}
.portfolio-details .portfolio-description p {
  padding: 0;
}

/* Team Section
-----*/
#team {
  background: #fff;
  padding: 80px 0 60px 0;
}
#team .member {
  text-align: center;
  margin-bottom: 20px;
}
#team .member .pic {
  margin-bottom: 15px;
  overflow: hidden;
  height: 260px;
}
#team .member .pic img {
  max-width: 100%;
}
#team .member h4 {
  font-weight: 700;
  margin-bottom: 2px;
  font-size: 18px;
}
#team .member span {
  font-style: italic;
  display: block;
  font-size: 13px;
}
#team .member .social {
  margin-top: 15px;
}
#team .member .social a {
  color: #b3b3b3;
}
#team .member .social a:hover {
  color: #2dc997;
```

```
}

#team .member .social i {
    font-size: 18px;
    margin: 0 2px;
}

/* Contact Section
-----*/
#contact {
    background: #f7f7f7;
    padding: 80px 0 40px 0;
}
#contact #google-map {
    height: 300px;
    margin-bottom: 20px;
}
#contact .info {
    color: #333333;
}
#contact .info i {
    font-size: 32px;
    color: #2dc997;
    float: left;
    line-height: 0;
}
#contact .info p {
    padding: 0 0 10px 50px;
    margin-bottom: 20px;
    line-height: 22px;
    font-size: 14px;
}
#contact .info .email p {
    padding-top: 5px;
}
#contact .social-links {
    padding: 20px 0;
}
#contact .social-links a {
    font-size: 18px;
    background: #333;
    color: #fff;
    line-height: 1;
    border-radius: 50%;
    text-align: center;
    width: 36px;
    height: 36px;
    transition: 0.3s;
    display: inline-flex;
    align-items: center;
    justify-content: center;
}
```

```
}

#contact .social-links a i {
    line-height: 0;
}
#contact .social-links a:hover {
    background: #2dc997;
    color: #fff;
}
#contact .php-email-form .error-message {
    display: none;
    color: #fff;
    background: #ed3c0d;
    text-align: left;
    padding: 15px;
    font-weight: 600;
}
#contact .php-email-form .error-message br + br {
    margin-top: 25px;
}
#contact .php-email-form .sent-message {
    display: none;
    color: #fff;
    background: #18d26e;
    text-align: center;
    padding: 15px;
    font-weight: 600;
}
#contact .php-email-form .loading {
    display: none;
    background: #fff;
    text-align: center;
    padding: 15px;
}
#contact .php-email-form .loading:before {
    content: "";
    display: inline-block;
    border-radius: 50%;
    width: 24px;
    height: 24px;
    margin: 0 10px -6px 0;
    border: 3px solid #18d26e;
    border-top-color: #eee;
    -webkit-animation: animate-loading 1s linear infinite;
    animation: animate-loading 1s linear infinite;
}
#contact .php-email-form input, #contact .php-email-form textarea {
    border-radius: 0;
    box-shadow: none;
    font-size: 14px;
}
```

```
#contact .php-email-form input::focus, #contact .php-email-form textarea::focus {
    background-color: #2dc997;
}
#contact .php-email-form button[type=submit] {
    background: #2dc997;
    border: 0;
    padding: 10px 24px;
    color: #fff;
    transition: 0.4s;
}
#contact .php-email-form button[type=submit]:hover {
    background: #51d8ad;
}
@-webkit-keyframes animate-loading {
    0% {
        transform: rotate(0deg);
    }
    100% {
        transform: rotate(360deg);
    }
}
@keyframes animate-loading {
    0% {
        transform: rotate(0deg);
    }
    100% {
        transform: rotate(360deg);
    }
}

/*-----
# Footer
-----*/
#footer {
    background: #343b40;
    padding: 30px 0;
    color: #fff;
    font-size: 14px;
}
#footer .copyright {
    text-align: center;
}
#footer .credits {
    padding-top: 10px;
    text-align: center;
    font-size: 13px;
    color: #ccc;
}
```

Output

VARUN KHADAYATE

WELCOME TO MY WEBSITE

My Name is Varun Khadayate and I am a third Year Student at NMIMS Navi Mumbai

GET STARTED

HOME ABOUT FACTS CONTACT

VARUN KHADAYATE

About me

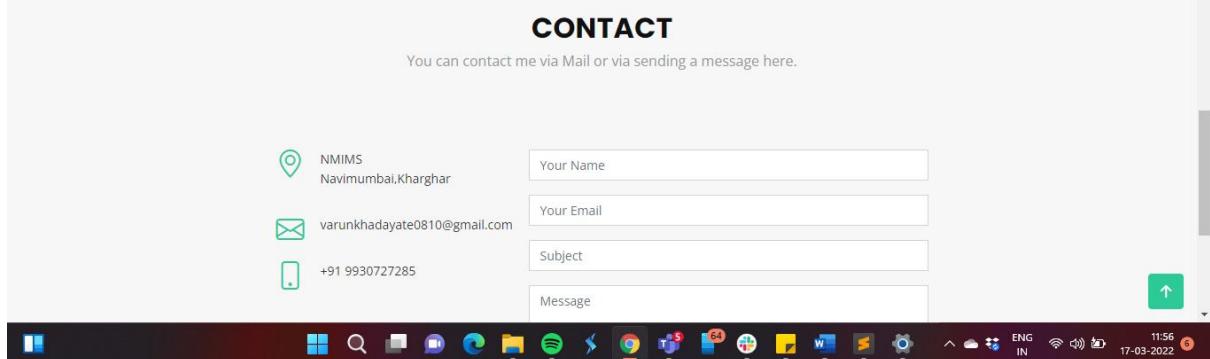
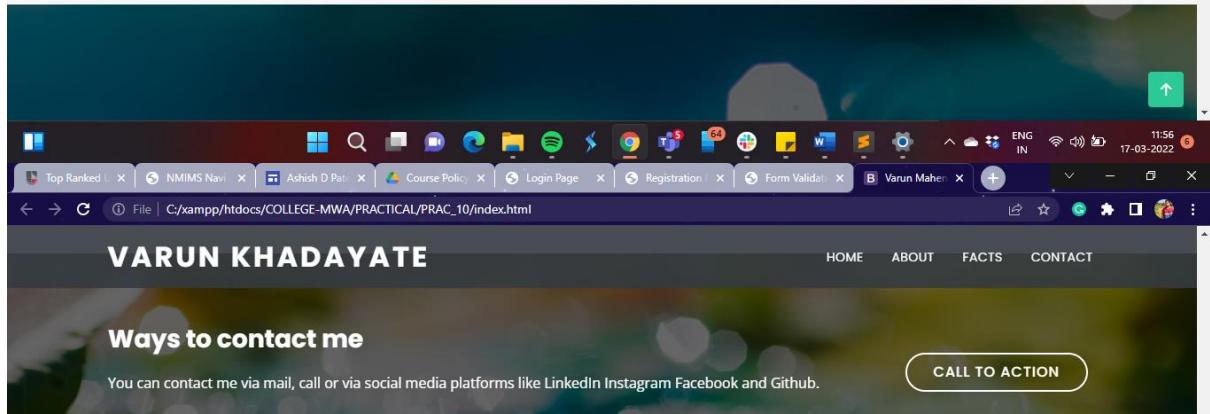
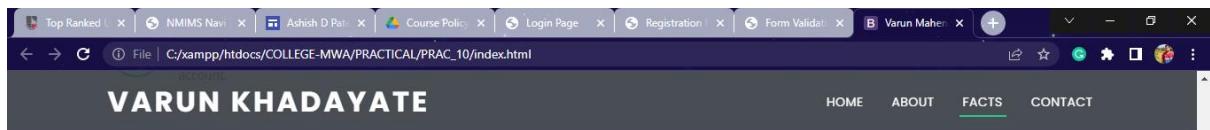
A Learner, Born in the state of Gujarat, living in places of forts, dams, and scenery Panvel. A student in NMIMS is deemed to be a university, currently in TY Btech, Co-Head Manthan Tech Club in the college, IAM Manager intern at Virtually Testing Foundation, Travel enthusiasts, Fond of Music, Art, and Nature. Always open to all who need help and also to ask for help ;) Passionate about Coding, learning IoT, SQL, Database Management, cybersecurity, Cloud computing, Big data, and ML, have extensive experience in languages like C, C++, Python, SQL, R, HTML... Seeking for connecting with all of you and sharing and learning new ideas

INTERNSHIP EXPERIENCE

- 1 Year of Experience at Virtually Testing Foundation
- 1 month of experience in GPCSSI-21
- 1 month of experience in Sparks Foundation

COLLEGE ACTIVITIES

- Co-Head of Manthan Tech Club



Roll. No. A016	Name: Varun Khadayate
Class B.Tech CsBs	Batch: 1
Date of Experiment: 15-3-2022	Date of Submission: 15-3-2022

Designing Angular JS Application

Code

Script.js

```
angular.module('app', []);
```

```
angular.module('app').controller("MainController", function(){
    var vm = this;
    vm.title = 'AngularJS Practice Example';
    vm.searchInput = "";
    vm.shows = [
        {
            title: '2 States',
            author: 'Chetan Bhagat',
            favorite: false
        },
        {
            title: 'Life of Pi',
            author: 'Davan',
            favorite: true
        },
        {
            title: 'Wings of Fire',
            author: 'APJ Abdul Kalam',
            favorite: true
        },
        {
            title: 'I too have a gf',
            author: 'Chetan Bhagat',
            favorite: false
        },
        {
            title: 'The Sealed Nector',
            author: 'Raheeq',
            favorite: true
        }
    ];
    vm.orders = [
        {
            id: 1,
            title: 'Author Ascending',
            key: 'author',
            reverse: false
        },
        {

```

```

        id: 2,
        title: 'Author Descending',
        key: 'author',
        reverse: true
    },
    {
        id: 3,
        title: 'Title Ascending',
        key: 'title',
        reverse: false
    },
    {
        id: 4,
        title: 'Title Ascending',
        key: 'title',
        reverse: true
    }
];
vm.order = vm.orders[0];
vm.new = {};
vm.addShow = function() {
    vm.shows.push(vm.new);
    vm.new = {};
};
});

```

Index.html

```

<body>
<!-- partial:index.partial.html -->
<html>
<head lang="en">
    <meta charset="UTF-8">
    <title>AngularJS Practical</title>
    <link rel="stylesheet"
        href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.1/css/bootstrap.min.css">
    <script
        src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.4/angular.min.js"></script>
    <script src="app.js"></script>
    <script src="main.ctrl.js"></script>
</head>
<body ng-app="app" ng-controller="MainController as main">
<div class="container">
    <h1>{{main.title}}</h1>
    <div class="input-group">
        <span class="input-group-addon">
            <span class="glyphicon glyphicon-search"></span>
        </span>
        <input type="text" class="form-control" ng-model="main.searchInput">
    </div>
    <h3>A list of Books</h3>

```

```

<ul class="list-group">
  <li class="list-group-item" ng-repeat="show in main.shows | filter:main.searchInput | orderBy:main.order.key:main.order.reverse"><span class="glyphicon glyphicon-star" ng-if="show.favorite"></span> { {show.title} } <span class="badge">{ {show.author} }</span></li>
</ul>
<select class="form-control pull-right" ng-model="main.order" ng-options="order as order.title for order in main.orders"></select>
<div class="clearfix"></div>
<h3>Add a new Book</h3>
<form name="main.addForm" class="form" ng-submit="main.addShow()">
  <div class="form-group">
    <label>Title</label>
    <input type="text" class="form-control" ng-model="main.new.title" required />
  </div>
  <div class="form-group">
    <label>Author</label>
    <input type="text" class="form-control" ng-model="main.new.author" required />
    <!--<input type="number" min="1900" max="2030" class="form-control" ng-model="main.new.year" required />-->
  </div>
  <div class="row">
    <div class="col-xs-6">
      <label>Favorite: <input type="checkbox" ng-model="main.new.favorite" /></label>
    </div>
    <div class="col-xs-6">
      <button class="btn btn-success pull-right"><span class="glyphicon glyphicon-plus-sign"></span> Add</button>
    </div>
  </div>
</form>
</div>
</body>
</html>
<!-- partial -->
<script src="./script.js"></script>

</body>

```

Output

AngularJS Practice Example

A list of Books

★ Wings of Fire	APJ Abdul Kalam
2 States	Chetan Bhagat
I too have a gf	Chetan Bhagat
★ Life of Pi	Dawam
★ The Sealed Nector	Rahneesh

Author Ascending

Add a new Book

Title

Author

Favorite:

Add

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To study RESTful services

RESTful Web Services are basically REST Architecture based Web Services. In REST Architecture everything is a resource. RESTful web services are light weight, highly scalable and maintainable and are very commonly used to create APIs for web-based applications. Restful Web Service, expose API from your application in a secure, uniform, stateless manner to the calling client. The calling client can perform predefined operations using the Restful service. The underlying protocol for REST is HTTP. REST stands for REpresentational State Transfer.

HTTP methods

Following four HTTP methods are commonly used in REST based architecture.

- GET – Provides a read only access to a resource.
- POST – Used to create a new resource.
- DELETE – Used to remove a resource.
- PUT – Used to update a existing resource or create a new resource.

RESTful Resources

REST architecture treats every content as a resource. These resources can be Text Files, Html Pages, Images, Videos or Dynamic Business Data. REST Server simply provides access to resources and REST client accesses and modifies the resources. Here each resource is identified by URIs/ Global IDs.

RESTful Messages

RESTful Web Services make use of HTTP protocols as a medium of communication between client and server. A client sends a message in form of a HTTP Request and the server responds in the form of an HTTP Response. This technique is termed as Messaging. These messages contain message data and metadata i.e. information about message itself. Let us have a look on the HTTP Request and HTTP Response messages for HTTP 1.1.

HTTP Request

An HTTP Request has five major parts –

- Verb – Indicates the HTTP methods such as GET, POST, DELETE, PUT, etc.
- URI – Uniform Resource Identifier (URI) to identify the resource on the server.
- HTTP Version – Indicates the HTTP version. For example, HTTP v1.1.
- Request Header – Contains metadata for the HTTP Request message as key-value pairs. For example, client (or browser) type, format supported by the client, format of the message body, cache settings, etc.
- Request Body – Message content or Resource representation.
-

HTTP Response

An HTTP Response has four major parts –

- Status/Response Code – Indicates the Server status for the requested resource. For example, 404 means resource not found and 200 means response is ok.
- HTTP Version – Indicates the HTTP version. For example HTTP v1.1.
- Response Header – Contains metadata for the HTTP Response message as keyvalue pairs. For example, content length, content type, response date, server type, etc.
- Response Body – Response message content or Resource representation.

RESTful Addressing

Addressing refers to locating a resource or multiple resources lying on the server. It is analogous to locate a postal address of a person.

Each resource in REST architecture is identified by its URI (Uniform Resource Identifier). A URI is of the following format –

<protocol>://<service-name>/<ResourceType>/<ResourceID>