COLLEGE CODE: 9100

COLLEGE NAME: ANNA UNIVERSITY REGIONAL CAMPUS MADURAI

DEPARTMENT: COMPUTER SCIENCE

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DATE: 13/10/25

Completed the project named as

Phase_Frontend Technology Project

NAME: INTERACTIVE FORM VALIDATION

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FRONTEND TECHNOLOGY

Phase_5: Project Demonstration & Documentation

Title   : Interactive Form Validation.

Final Demo Walkthrough:

During the demo:

- ➢ Users enter details (Name, Email, Password, etc.).
- ➢ Validation occurs instantly using JavaScript/React form handling.
- ➢ Correct inputs display success indicators, while errors are shown dynamically with hints.
- ➢ The final form submission only proceeds when all validations pass successfully.

Key Features Demonstrated:

- ➢ Real-time validation feedback.
- ➢ Error message animation.
- ➢ Responsive and user-friendly UI.
- ➢ Form data handling and sanitization.

Project Report:

Project Title: Interactive Validation Form

Objective: To build a dynamic and responsive form that validates user inputs in real-time, ensuring data accuracy and improving user experience.

Technologies Used:

Frontend: HTML, CSS, JavaScript (or React.js)

Validation: Regex and event-based JS validation

Deployment: GitHub Pages / Netlify

Modules:

1. Input Validation (Name, Email, Password, etc.)

2. Dynamic Error Display

3. Form Submission with Validation Check

4. Responsive Design

Outcome:

A modern, interactive validation form that ensures clean user input with an intuitive interface.

Screenshots:

Screenshots Include:

➢ Landing Page
➢ Input Field Validation in Action
➢ Error Message Display
➢ Successful Submission Page

This page says

Login Successful (Demo)!

OK

Login to
NAAN MUDHALVAN

Username

Uva Sara Sri

Password

••••••••

Forgot Password?

5 3 7 6 0 ↻

Captcha

53760

Login

For New Organization/Industry Job Registration Click here

Login to
NAAN MUDHALVAN

Username

Username

Password

⚠ Please fill out this field.

Password

Forgot Password?

5 3 7 6 0 ↻
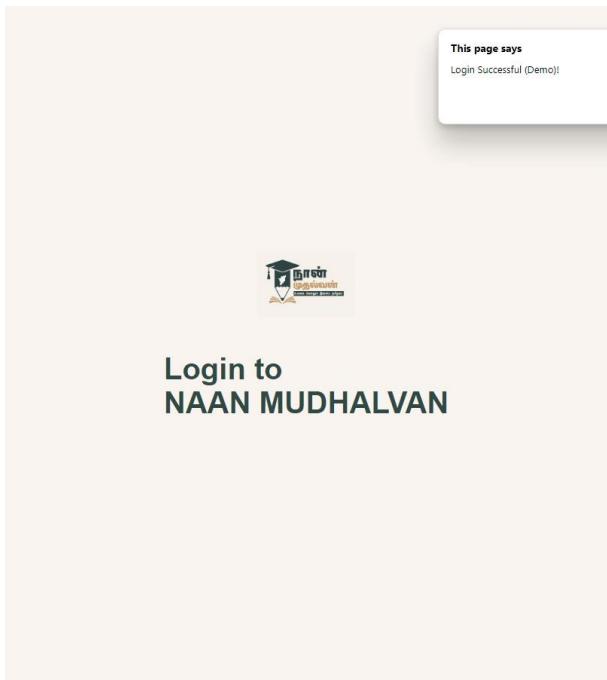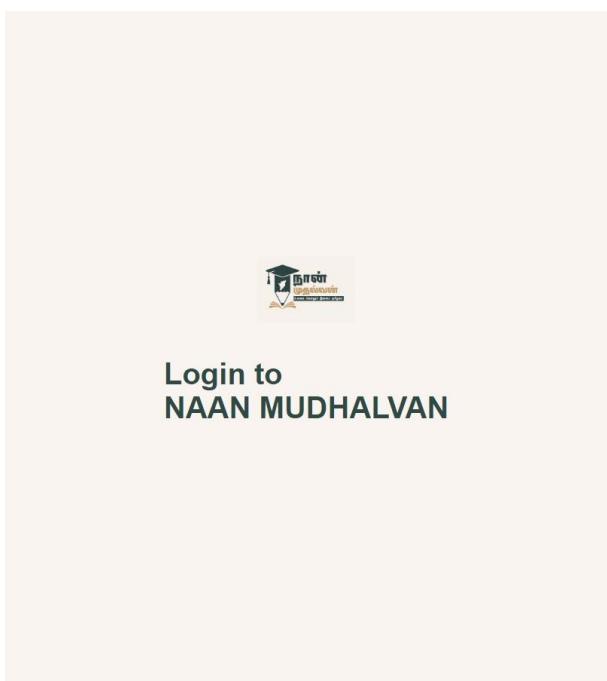
Captcha

Enter Captcha

Login

For New Organization/Industry Job Registration Click here

Challenges & Solutions:

Challenge	Solution
Handling multiple input validations simultaneously	Implemented modular JS functions for each input type
Providing user-friendly feedback	Used color-coded messages and icons for clarity
Ensuring responsiveness on all devices	Used CSS Flexbox and media queries
Managing form performance in real-time validation	Debounced validation triggers to optimize performance

Code:

HTML

```html
<> index1.html > </> html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6     <title>Login | Naan Mudhalvan</title>
7     <link rel="stylesheet" href="style1.css" />
8     <script src="script1.js" defer></script>
9   </head>
10  <body>
11    <div class="container">
12      <div class="left-section">
13        <img src="logo.png" alt="Naan Mudhalvan Logo" class="logo" />
14        <h1>Login to<br><span>NAAN MUDHALVAN</span></h1>
15      </div>
16      <div class="right-section">
17        <form id="loginForm" class="login-form">
18          <div class="input-group">
19            <label for="username">Username</label>
20            <input type="text" id="username" placeholder="Username" required />
21          </div>
22
23          <div class="input-group">
24            <label for="password">Password</label>
25            <input type="password" id="password" placeholder="Password" required />
26            <a href="#" class="forgot">Forgot Password?</a>
27          </div>
28
29          <div class="captcha-section">
30            <img src="captcha.png" alt="Captcha" id="captchaImage" />
31            <button type="button" id="refreshCaptcha">↻</button>
32          </div>
33
34          <div class="input-group">
35            <label for="captcha">Captcha</label>
36            <input type="text" id="captcha" placeholder="Enter Captcha" required />
37          </div>
38
39          <button type="submit" class="login-btn">Login</button>
40          <p class="note">For New Organization/Industry Job Registration
41            <a href="#">Click here</a></p>
42        </form>
43      </div>
44    </div>
45  </body>
46  </html>
```

CSS:

```css
# style1.css > .note a
1   body {
2       margin: 0;
3       font-family: 'Poppins', sans-serif;
4       background: #f7f3ef;
5   }
6   .container {
7       display: flex;
8       height: 100vh;
9   }
10  .left-section {
11      flex: 1;
12      background: #f9f4ef;
13      display: flex;
14      flex-direction: column;
15      justify-content: center;
16      align-items: center;
17      color: #2f4944;
18  }
19  .logo {
20      width: 130px;
21      margin-bottom: 20px;
22  }
23  .left-section h1 {
24      font-size: 40px;
25      text-align: left;
26  }
27  .left-section span {
28      font-weight: 700;
29  }
30  .right-section {
31      flex: 1;
32      background: #fff;
33      display: flex;
34      justify-content: center;
35      align-items: center;
36  }
37  .login-form {
38      width: 80%;
39      max-width: 400px;
40  }
41  .input-group {
42      margin-bottom: 20px;
43      position: relative;
44  }
45  label {
46      font-weight: 600;
47      color: #2f4944;
48  }
```

```css
49    input {
50      width: 100%;
51      padding: 10px;
52      border: 2px solid ☐#2f4944;
53      border-radius: 8px;
54      outline: none;
55      margin-top: 5px;
56    }
57    input:focus {
58      border-color: ☐#0f3d3e;
59    }
60    .forgot {
61      font-size: 13px;
62      position: absolute;
63      right: 0;
64      bottom: -18px;
65      text-decoration: none;
66      color: ☐#0f3d3e;
67    }
68    .captcha-section {
69      display: flex;
70      align-items: center;
71      gap: 10px;
72      margin: 20px 0;
73    }
74    #captchaImage {
75      height: 50px;
76      border: 1px solid ☐#ccc;
77    }
78    #refreshCaptcha {
79      border: none;
80      background: transparent;
81      font-size: 22px;
82      cursor: pointer;
83    }
84    .login-btn {
85      background: ☐#2f4944;
86      color: ☐#fff;
87      width: 100%;
88      padding: 12px;
89      border: none;
90      border-radius: 8px;
91      font-size: 16px;
92      cursor: pointer;
93      transition: 0.3s;
94    }
```

```css
 95     .login-btn:hover {
 96        background: ☐#1f3330;
 97     }
 98     .note {
 99        font-size: 14px;
100        margin-top: 15px;
101     }
102     .note a {
103        color: ■#c47f00;
104        text-decoration: none;
105     }
```

JavaScript:

```js
JS script1.js > ...
 1    document.getElementById('refreshCaptcha').addEventListener('click', function() {
 2      const captcha = document.getElementById('captchaImage');
 3      captcha.src = 'captcha.png?' + Date.now(); // Simulate reload
 4    });
 5
 6    document.getElementById('loginForm').addEventListener('submit', function(e) {
 7      e.preventDefault();
 8      const username = document.getElementById('username').value.trim();
 9      const password = document.getElementById('password').value.trim();
10      const captcha = document.getElementById('captcha').value.trim();
11
12      if (username === '' || password === '' || captcha === '') {
13        alert('Please fill out all fields.');
14        return;
15      }
16
17      alert('Login Successful (Demo)!');
18    });
```

GitHub README & Setup Guide

1. Clone the repo:

git clone https://github.com/John-Wesley-Smith/Naan-Mudhalvan-project/tree/main/NM%20projects

2. Navigate to the directory

3. Open index.html in browser

Github link:

https://github.com/John-Wesley-Smith/Naan-Mudhalvan-project/tree/main/NM%20projects

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