COLLEGE CODE: 9111

COLLEGE NAME : SRM MADURAI COLLEGE FOR ENGINEERING AND TECHNOLOGY

DEPARTMENT: BTECH INFORMATION TECHNOLOGY

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DATE: 07-10-2025

PHASE 5 : Front end technologies : Enhancements & Deployment

PROJECT NAME : Interactive form validation

Submitted by :

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1. Final Demo Walkthrough :

Explanation of how the form works step by step.

Example flow:

1. User enters details (name, email, password, confirm password, phone, etc.)

2. Real-time validation highlights incorrect fields.

3. Successful validation allows form submission.

4. Error messages guide users to fix mistakes.

2. Project Report :

Objective: To implement interactive form validation using HTML, CSS, and JavaScript.

Technologies Used:

HTML → Form structure

CSS → Styling and error highlighting

JavaScript → Validation logic (email format, password strength, matching fields, etc.)

3. Features Implemented:

- ✓ Email validation (regex check)
- ✓ Password strength validation
- ✓ Confirm password matching
- ✓ Mobile number validation

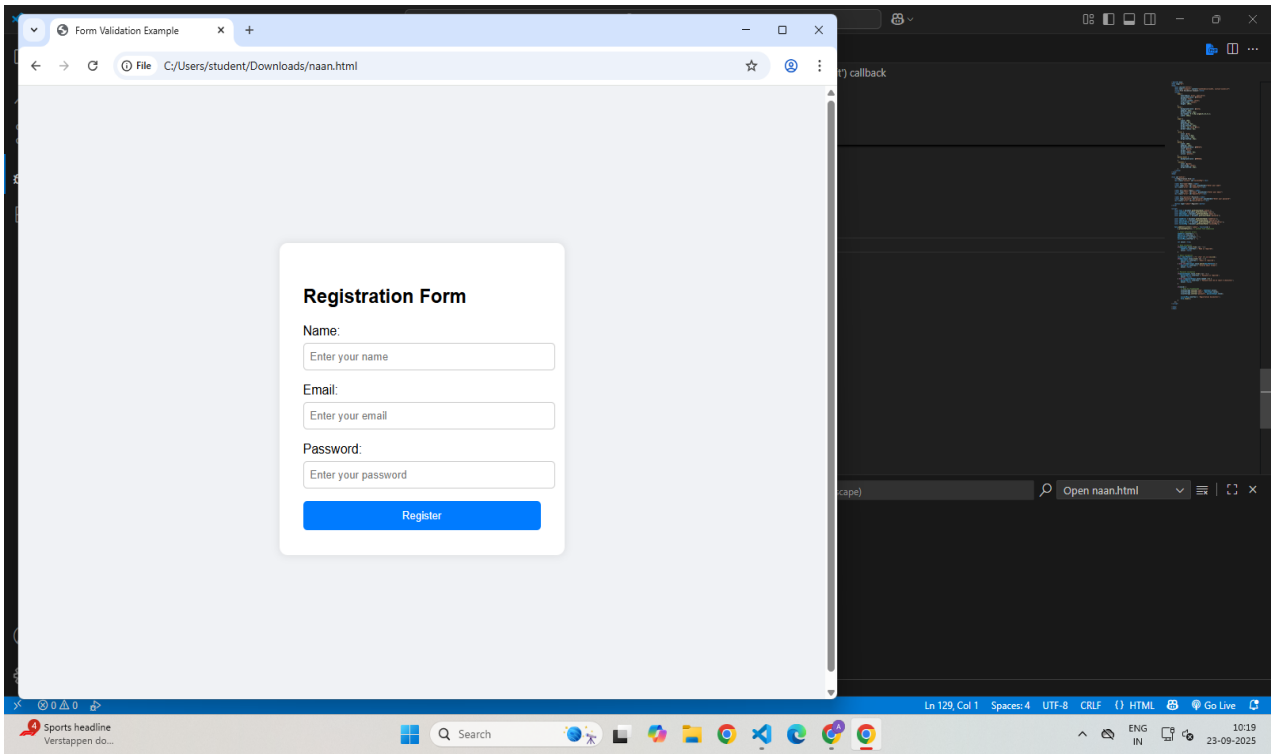
- ✓ Real-time error messages

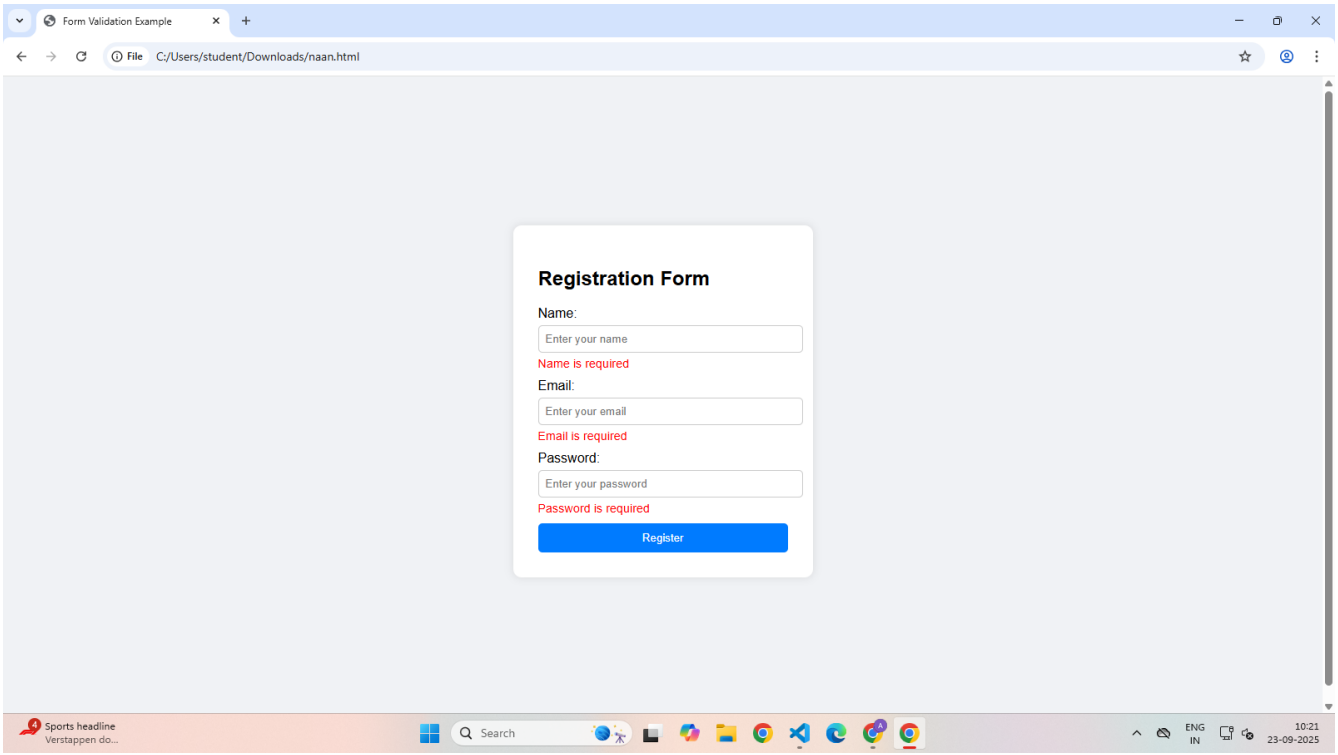
validation program :

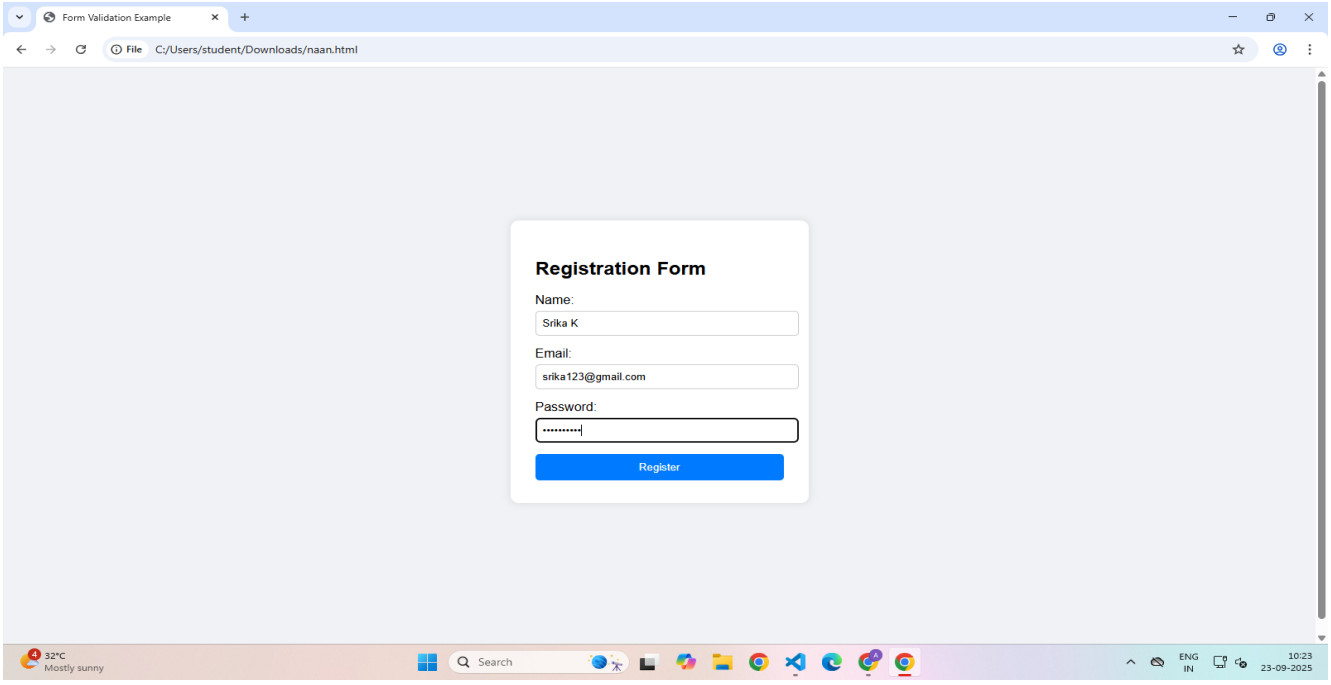
```
<form id="myForm">
  <label>Email:</label>
  <input type="text" id="email" required>
  <span id="emailError"></span><br>

  <label>Password:</label>
  <input type="password" id="password" required>
  <span id="passError"></span><br>

  <label>Confirm Password:</label>
  <input type="password" id="confirmPassword" required>
  <span id="confirmError"></span><br>

  <button type="submit">Register</button>
</form>

<script>
document.getElementById("myForm").addEventListener("submit",
function(e){
    e.preventDefault();

    let email = document.getElementById("email").value;
    let pass = document.getElementById("password").value;
    let confirm =
document.getElementById("confirmPassword").value;

    let emailPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;

    if(!email.match(emailPattern)){
        document.getElementById("emailError").innerHTML = "Invalid
Email!";
    } else {
```

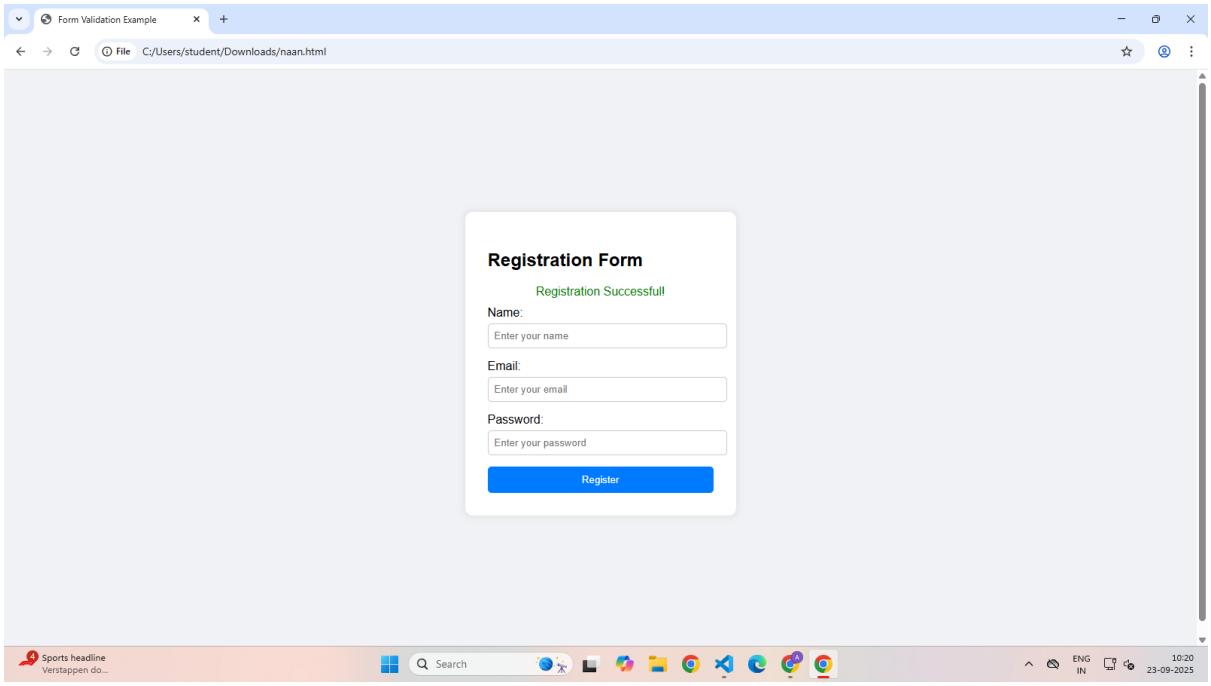
```
        document.getElementById("emailError").innerHTML = "";
    }

    if(pass.length < 6){
        document.getElementById("passError").innerHTML =
"Password too short!";
    } else {
        document.getElementById("passError").innerHTML = "";
    }

    if(pass !== confirm){
        document.getElementById("confirmError").innerHTML =
"Passwords do not match!";
    } else {
        document.getElementById("confirmError").innerHTML = "";
    }
});
</script
```

3. Screenshots :




Form Validation Example
File C:/Users/student/Downloads/naan.html
Registration Form
Name:
Enter your name
Name is required
Email:
Enter your email
Email is required
Password:
Enter your password
Password is required
Register
Sports headline
Verstappen do...
Search
ENG
IN
10:21
23-09-2025


Form Validation Example
File C:/Users/student/Downloads/naan.html
Registration Form
Name:
Srika K
Email:
srika123@gmail.com
Password:
Register
32°C
Mostly sunny
Search
ENG
IN
10:23
23-09-2025



4. Challenges & Solutions:

Challenge 1: Handling multiple field validations.

Solution: Used JavaScript event listeners for each input.

Challenge 2: Making real-time validation user-friendly.

Solution: Added error messages under each field with dynamic CSS.

Challenge 3: Password strength checking.

Solution: Implemented regex and length checks.

5. GitHub README & Setup Guide:

README.md content:

Interactive Form Validation Project

🚀 **Features:**

- Real-time input validation
- Email, password, confirm password checks
- Error messages with CSS styling

🛠️ **Technologies:**

- HTML
- CSS
- JavaScript

⚡ **Setup:**

1. Open index.html in browser.

Form-validation.html

Live Demo:

[https://drive.google.com/file/d/1OfD2rR1BSE35Nfkfvfm6JB9zMLqYgNIv/view?usp=sharing]

6. Final Submission (Repo) :

Student name / Register number	GITHUB link
SRIKA K	https://github.com/Shrivrjmy/Interactive-form-validation-
RATHIKA S	https://github.com/rathikasaro-05/Rathikasaro05.git
KAVITHA S	https://github.com/AmmuKavi708/IBM-FE-Interactive-Form-Validation.git
PRIYA DHARSHINI M	https://github.com/priyadharshinimanikandan25-art/Interactive-Form-Validation.git
KIRUTHIKA ARUL JOTHI ESRA P	https://github.com/kiruthikaaruljothiesrap/Intractive-form-validation.git