

MAJOR PROJECT

DEVELOPING A FORM VALIDATION SYSTEM

HTML

```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration Form</title>
    <link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container mt-5">
        <h2 class="text-center">Registration Form</h2>
        <form id="registrationForm" class="mt-4">
            <div class="form-group">
                <label for="fullName">Full Name</label>
                <input type="text" class="form-control" id="fullName" placeholder="Enter your full name">
                <small class="form-text text-danger" id="nameError"></small>
            </div>
            <div class="form-group">
                <label for="email">Email ID</label>
                <input type="email" class="form-control" id="email" placeholder="Enter your email">
                <small class="form-text text-danger" id="emailError"></small>
            </div>
            <div class="form-group">
                <label for="phone">Phone Number</label>
                <input type="text" class="form-control" id="phone" placeholder="Enter your phone number">
                <small class="form-text text-danger" id="phoneError"></small>
            </div>
            <div class="form-group">
                <label for="password">Password</label>
```

```

<input type="password" class="form-control" id="password" placeholder="Enter your password">
<small class="form-text text-danger" id="passwordError"></small>
</div>
<div class="form-group">
    <label for="confirmPassword">Confirm Password</label>
    <input type="password" class="form-control" id="confirmPassword" placeholder="Confirm your password">
    <small class="form-text text-danger" id="confirmPasswordError"></small>
</div>
<button type="submit" class="btn btn-primary">Register</button>
</form>
</div>
<script src="script.js"></script>
</body>

</html>

```

CSS

```

body {
    background-color: #f8f9fa;
}

.container {
    max-width: 600px;
    background-color: white;
    padding: 30px;
    border-radius: 8px;
    box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);
}

h2 {
    color: #343a40;
}

```

JAVASCRIPT

```

document.getElementById('registrationForm').addEventListener('submit', function(e) {
    e.preventDefault();
    validateForm();
}

```

```
});

function validateForm() {
    const fullName = document.getElementById('fullName').value.trim();
    const email = document.getElementById('email').value.trim();
    const phone = document.getElementById('phone').value.trim();
    const password = document.getElementById('password').value.trim();
    const confirmPassword = document.getElementById('confirmPassword').value.trim();

    resetErrors();

    if (fullName.length < 5) {
        showError('nameError', 'Name must be at least 5 characters long.');
    }

    if (!email.includes('@')) {
        showError('emailError', 'Enter a valid email.');
    }

    if (phone === '1234567890' || phone.length !== 10 || isNaN(phone)) {
        showError('phoneError', 'Enter a valid 10-digit phone number.');
    }

    if (password.length < 8 || password.toLowerCase() === 'password' || password.toLowerCase() ===
        fullName.toLowerCase()) {
        showError('passwordError', 'Password must be at least 8 characters and should not be "password" or your
        name.');
    }

    if (password !== confirmPassword) {
        showError('confirmPasswordError', 'Passwords do not match.');
    }
}

function showError(elementId, message) {
    document.getElementById(elementId).textContent = message;
}

function resetErrors() {
    const errors = document.querySelectorAll('.form-text.text-danger');
    errors.forEach(error => error.textContent = '');
}
```

RESULT

The screenshot shows a web browser window with the title bar "Registration Form". The page content is a registration form with the following fields:

- Full Name**: Input field placeholder "Enter your full name".
- Email ID**: Input field placeholder "Enter your email".
- Phone Number**: Input field placeholder "Enter your phone number".
- Password**: Input field placeholder "Enter your password".
- Confirm Password**: Input field placeholder "Confirm your password".

A blue "Register" button is located at the bottom left of the form area.