Assignment 5

```html
<!DOCTYPE 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 rel="stylesheet" href="style.css">
</head>
<body>

    <div class="container">
        <form id="registrationForm" action="#" method="post">
            <h2>Registration Form</h2>

            <label for="firstName">First Name:</label>
            <input type="text" id="firstName" name="firstName">
            <span id="firstNameError" class="error"></span>

            <label for="lastName">Last Name:</label>
            <input type="text" id="lastName" name="lastName">
            <span id="lastNameError" class="error"></span>

            <label for="email">Email:</label>
            <input type="email" id="email" name="email">
            <span id="emailError" class="error"></span>

            <label for="password">Password:</label>
            <input type="password" id="password" name="password">
            <span id="passwordError" class="error"></span>

            <input type="submit" value="Register">
        </form>
    </div>

    <script src="script.js"></script>
</body>
</html>
```

```css
/* General Page Styling */
body {
    font-family: 'Poppins', sans-serif;
    background-color: #aa00ff; /* Blue Background */
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}

/* Container (Form Box) */
.container {
    background: white;
    padding: 30px;
    border-radius: 10px;
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.2);
    width: 400px;
    text-align: left;
    animation: fadeIn 0.8s ease-in-out;
}

/* Heading */
h2 {
    text-align: center;
    margin-bottom: 20px;
    font-size: 24px;
    font-weight: bold;
    color: #333;
}

/* Form Labels */
label {
    font-weight: 600;
    display: block;
    margin-top: 15px;
    color: #333;
    font-size: 14px;
}

/* Input Fields */
input {
    width: 93%;
    padding: 12px;
    margin-top: 6px;
```

```css
    border: 1px solid #ccc;
    border-radius: 6px;
    font-size: 14px;
    transition: border 0.3s;
}

/* Input Focus Effect */
input:focus {
    border-color: #007BFF;
    outline: none;
    box-shadow: 0 0 5px rgba(0, 123, 255, 0.4);
}

/* Error Message Styling */
.error {
    color: red;
    font-size: 12px;
    margin-top: 5px;
    display: block;
}

/* Submit Button */
input[type="submit"] {
    background-color: #82b732;
    color: white;
    padding: 12px;
    border: none;
    border-radius: 6px;
    font-size: 16px;
    font-weight: bold;
    margin-top: 20px;
    cursor: pointer;
    width: 100%;
    transition: background 0.3s ease-in-out;
}

/* Hover Effect for Button */
input[type="submit"]:hover {
    background-color: #0056b3;
}

/* Fade-in Animation */
@keyframes fadeIn {
    from {
        opacity: 0;
        transform: translateY(-10px);
    }
    to {
```

```css
        opacity: 1;
        transform: translateY(0);
    }
}
```

```javascript
// Get form and input fields
const form = document.getElementById('registrationForm');
const firstName = document.getElementById('firstName');
const lastName = document.getElementById('lastName');
const email = document.getElementById('email');
const password = document.getElementById('password');

const firstNameError = document.getElementById('firstNameError');
const lastNameError = document.getElementById('lastNameError');
const emailError = document.getElementById('emailError');
const passwordError = document.getElementById('passwordError');

// Add event listener for form submission
form.addEventListener('submit', function(event) {
    let hasError = false;

    // Check if First Name is empty
    if (firstName.value.trim() === '') {
        firstNameError.textContent = 'First name is required';
        hasError = true;
    } else {
        firstNameError.textContent = '';
    }

    // Check if Last Name is empty
    if (lastName.value.trim() === '') {
        lastNameError.textContent = 'Last name is required';
        hasError = true;
    } else {
        lastNameError.textContent = '';
    }

    // Check if Email is empty or invalid
    if (email.value.trim() === '') {
        emailError.textContent = 'Email is required';
        hasError = true;
    } else if (!email.validity.valid) {
```
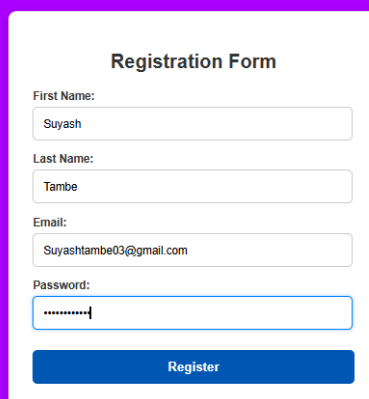
```
        emailError.textContent = 'Invalid email format';
        hasError = true;
    } else {
        emailError.textContent = '';
    }

    // Check if Password is empty
    if (password.value.trim() === '') {
        passwordError.textContent = 'Password is required';
        hasError = true;
    } else {
        passwordError.textContent = '';
    }

    // Prevent form submission if there is an error
    if (hasError) {
        event.preventDefault();
    }
});
```


Registration Form

First Name:

Suyash

Last Name:

Tambe

Email:

Suyashtambe03@gmail.com

Password:

•••••••••••

Register

index.html

- <!DOCTYPE html> - Defines the document type as HTML5.

- <html lang="en"> - Root element specifying the language as English.

- <head> - Contains metadata and links to styles and scripts.

- <meta charset="UTF-8"> - Sets character encoding to UTF-8.

- <meta name="viewport" content="width=device-width, initial-scale=1.0"> - Ensures responsiveness on different screen sizes.

- <title>Registration Form</title> - Sets the page title shown in the browser tab.

- <link rel="stylesheet" href="style.css"> - Links an external CSS file for styling.

- <body> - Contains all visible content on the webpage.

- <div class="container"> - A wrapper div to style the form layout.

- <form id="registrationForm" action="#" method="post"> - A form element for user input submission.

- <h2>Registration Form</h2> - Heading for the form.

- <label for="firstName">First Name:</label> - Labels an input field for accessibility.

- <input type="text" id="firstName" name="firstName"> - A text input for the first name.

- - Placeholder for validation error messages.

- <input type="submit" value="Register"> - A button to submit the form.

- <script src="script.js"></script> - Links an external JavaScript file for form validation.

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script.js

- document.getElementById('registrationForm') - Selects the form element by ID.

- form.addEventListener('submit', function(event) {...}) - Listens for form submission.

- firstName.value.trim() === '' - Checks if the first name input is empty.

- firstNameError.textContent = 'First name is required' - Displays an error message if validation fails.

- event.preventDefault(); - Prevents form submission if validation fails.

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style.css

- body { ... } - Sets the background color, font, and centering for the page.

- .container { ... } - Styles the form box with padding, shadows, and animations.

- label { ... } - Styles form labels for readability.

- input { ... } - Styles input fields with padding, borders, and transitions.

- input:focus { ... } - Changes border color and shadow when input is focused.

- .error { ... } - Styles error messages in red.

- input[type="submit"] { ... } - Styles the submit button.

- @keyframes fadeIn { ... } - Adds a fade-in animation effect.