



WEB Technologies LAB EXERCISE-HTML [JAVASCRIPT]

1. Dynamic Registration Form with Validation Enable/Disable

Create a registration form with fields: Name, Email, Password.

- Use JavaScript to **enable the Submit button only if all fields are non-empty and valid.**
 - Show error messages if fields are invalid when the user moves away from an input field.
 - Use **regular expressions** to validate the email format and password strength (minimum 8 characters, one uppercase, one number).
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2. Email Field Regex Validation on Blur Event

Design a form with an email field that performs real-time validation with JavaScript

regex: `/^[^@\\s]+@[^@\\s]+\\. [^@\\s]+$/`.

- Trigger validation on the `onblur` event.
 - Display a success or error message dynamically below the input field.
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3. Dynamic Phone Number Validation Using Regular Expressions

Create a phone number input field and validate user input as they type using regex to allow only valid phone numbers like:

- US format: (123) 456-7890 or 123-456-7890.
 - Use JavaScript `input` event to update validation status live.
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4. Dynamic Form Input Fields Addition

Build a "hobbies" form that allows users to **add multiple hobbies dynamically** using a button.

- When the "Add Hobby" button is clicked, append a new input field below the existing ones.



- Validate each hobby input to contain only alphabets using regex `/^[A-Za-z\\s]+$/.`
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5. Password and Confirm Password Real-time Matching

Create a form that takes Password and Confirm Password inputs.

- As user types in either field, dynamically check if they match.
 - Show messages: “Passwords match” (green) or “Passwords do not match” (red).
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6. Username Validation Using Regex to Restrict Special Characters

Develop a form where the username input must only allow letters, numbers, underscores without special characters.

- Use regex `/^[a-zA-Z0-9_]{3,16}$/` to validate username length between 3 and 16 characters.
 - Prevent form submission if invalid and display an error message.
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7. Date Format Validation ‘DD/MM/YYYY’ with Regex

Design a form with a date input field that requires the date format DD/MM/YYYY.

- Use the regex `/^\d{2}\/\d{2}\/\d{4}$/` to confirm the format.
 - Alert user with an error message if format is incorrect upon form submission.
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8. Hexadecimal Color Code Validation with Live Preview

Create an input field for color codes (e.g., #FFF or #FFFFFF).

- Validate the input with regex `/^#([A-Fa-f0-9]{6}|[A-Fa-f0-9]{3})$/`.
 - Provide a live color preview box beside the input that changes as the value updates.
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9. Dynamic Country Dropdown Based on Selected Continent

Implement two cascading dropdowns: one for continents and another for countries.

- When the user selects a continent, JavaScript updates the country list dynamically.
- Use objects or maps to manage continent-country data.

10. Dynamic Form Builder UI

Create a simple UI where users can add different types of form inputs dynamically (e.g., text, email, password).

- Users select input type from a dropdown and click “Add”.
- JavaScript generates the form inputs dynamically and appends them to the form.
- Validate all inputs with appropriate regex depending on type.