JavaScript code

document.addEventListener('DOMContentLoaded', function() {

// Product Filter

const filterButtons = document.querySelectorAll('.product-filter button');

const products = document.querySelectorAll('.product');

filterButtons.forEach(button => {

button.addEventListener('click', function() {

const filter = this.dataset.filter;

products.forEach(product => {

if (filter === 'all' || product.dataset.category === filter) {

product.style.display = 'block';

} else {

product.style.display = 'none';

}

});

});

});

// Form Validation

const contactForm = document.getElementById('contactForm');

const nameInput = document.getElementById('name');

const emailInput = document.getElementById('email');

const messageInput = document.getElementById('message');

const nameError = document.createElement('p');

const emailError = document.createElement('p');

const messageError = document.createElement('p');

nameError.classList.add('error-message');

emailError.classList.add('error-message');

messageError.classList.add('error-message');

nameInput.parentNode.insertBefore(nameError, nameInput.nextSibling);

emailInput.parentNode.insertBefore(emailError, emailInput.nextSibling);

messageInput.parentNode.insertBefore(messageError, messageInput.nextSibling);

contactForm.addEventListener('submit', function(event) {

let isValid = true;

if (!nameInput.value.trim()) {

nameError.textContent = 'Name is required.';

isValid = false;

} else {

nameError.textContent = '';

}

if (!emailInput.value.trim()) {

emailError.textContent = 'Email is required.';

isValid = false;

} else if (!emailInput.value.includes('@') || !emailInput.value.includes('.')) {

emailError.textContent = 'Invalid email format.';

isValid = false;

} else {

emailError.textContent = '';

}

if (!messageInput.value.trim()) {

messageError.textContent = 'Message is required.';

isValid = false;

} else {

messageError.textContent = '';

}

if (!isValid) {

event.preventDefault(); // Prevent form submission if invalid

}

});

// Self-Correcting Quiz

const quizSection = document.getElementById('quiz'); // Assuming you add a quiz section to the HTML

if (quizSection) {

const quizForm = document.getElementById('quizForm');

const resultsDiv = document.createElement('div');

resultsDiv.id = 'quizResults';

quizSection.appendChild(resultsDiv);

quizForm.addEventListener('submit', function(event) {

event.preventDefault(); // Prevent default form submission

const q1Answer = document.querySelector('input[name="q1"]:checked');

const q2Answer = document.querySelector('input[name="q2"]:checked');

let score = 0;

if (q1Answer && q1Answer.value === 'a') score++;

if (q2Answer && q2Answer.value === 'b') score++;

resultsDiv.textContent = `You scored ${score} out of 2.`;

});

}

//Video and audio control.

const video = document.querySelector('video');

const audio = document.querySelector('audio');

if (video) {

video.addEventListener('ended', function() {

console.log("video ended");

});

}

if (audio) {

audio.addEventListener('play', function() {

console.log("audio playing");

});

}

});