

# AI ASSISTED CODING

## LAB-14.4

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BATCH:04 (AIML)

### **TASK-01:**

Create a Responsive Web Page Layout

### **PROMPT:**

Generate a basic webpage layout which include header, main content ,footer also add CSS to make it more responsive in different screen sizes.

### **CODE:**

[illegible]





## **OBSERVATION:**

The AI generated the webpage in an efficient way and it also included all the elements what we have instructed to it. It included the header section , body section and also the footer section.

## **TASK-02:**

Interactive Button with Java script.

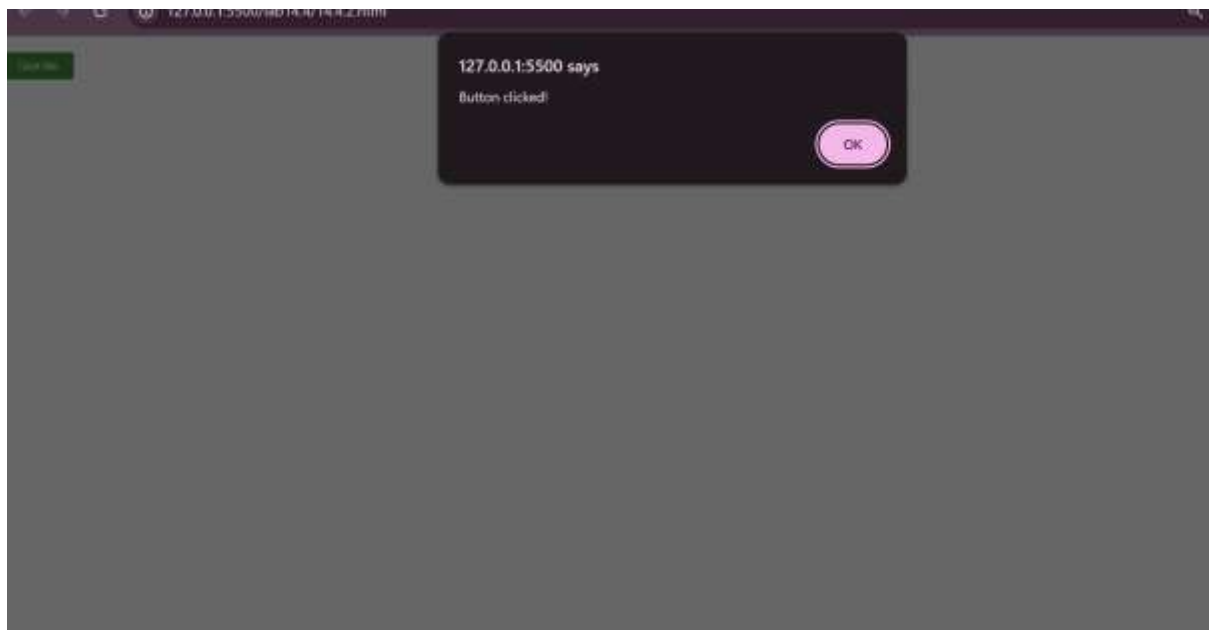
## **PROMPT:**

Create a button on the webpage then use java script to display the popup alert message “Button clicked” when the button is clicked.

## **CODE:**

```
1441.html 1442.html 1443.html 1444.html 1445.html
1441.html > @html > @css > @js > @alertButton
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <title>Click Button Alert Example</title>
6 <style>
7 {
8 font-family: Arial, sans-serif;
9 margin: 0;
10 padding: 0;
11 }
12 button {
13 background-color: #4CAF50;
14 color: white;
15 padding: 10px 20px;
16 border: none;
17 border-radius: 4px;
18 cursor: pointer;
19 }
20 button:hover {
21 background-color: #3E8E41;
22 }
23 #alertButton {
24 margin-top: 20px;
25 }
26 #alertButton:hover {
27 background-color: #3E8E41;
28 }
29 </style>
30 </head>
31 <body>
32 <!-- Button that triggers the alert -->
33 <button id="alertButton">Click Me</button>
34
35 <script>
36 // Get the button element by its ID
37 const button = document.getElementById('alertButton');
38
39 // Add a click event listener to the button
40 button.addEventListener('click', function() {
41 // Show an alert message when the button is clicked
42 alert('Button clicked!');
43 });
44 </script>
45 </body>
46 </html>
```

## OUTPUT:



## OBSERVATION:

The code generated by the AI which shows the popup message when the button is clicked.

## TASK-03:

## Form with Validation.

### PROMPT:

Generate a form which accepts the details like name, email ,message use java script to validate the correct format and display the error messages if the required field is empty after completion of filling the data then it should display the message “Form submitted Successfully” on clicking the submit button.

### CODE:

```
ad344 > > 1643.htm > > html > > body > > %formcontactform
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <title>Contact Form</title>
6    <style>
7      body { font-family: Arial, sans-serif; margin: 40px; }
8      .form-group { margin-bottom: 15px; }
9      label { display: block; margin-bottom: 5px; }
10     input, textarea { width: 100%; padding: 8px; border: 1px solid #ccc; }
11     .error { color: red; font-size: 0.95em; margin-top: 5px; }
12     .success { color: green; font-size: 1em; margin-top: 10px; }
13     button { padding: 8px 16px; }
14   </style>
15 </head>
16 <body>
17   <h2>Contact Us</h2>
18   <form id="contactform" novalidate>
19     <div class="form-group">
20       <label for="name">Name:</label>
21       <input type="text" id="name" name="name">
22       <div class="error" id="nameerror"></div>
23     </div>
24     <div class="form-group">
25       <label for="email">Email:</label>
26       <input type="email" id="email" name="email">
27       <div class="error" id="emailerror"></div>
28     </div>
29     <div class="form-group">
30       <label for="message">Message:</label>
31       <textarea id="message" name="message" rows="4"></textarea>
32       <div class="error" id="messageerror"></div>
33     </div>
34     <button type="submit">Submit</button>
35     <div class="success" id="successMsg"></div>
36   </form>
37   <script>
38     const form = document.getElementById('contactform');
39     const nameInput = document.getElementById('name');
40     const emailInput = document.getElementById('email');
41     const messageInput = document.getElementById('message');
42     const nameError = document.getElementById('nameerror');
43     const emailError = document.getElementById('emailerror');
44     const messageError = document.getElementById('messageerror');
45     const successMsg = document.getElementById('successMsg');
46
47     function validateEmail(email) {
48       // Simple email regex
```

```

57 <script>
58   function validateEmail(email) {
59     // regular expression
60     return /^[^\s@]+@[^\s@]+\.[^\s@]+$/ .test(email);
61   }
62
63   form.addEventListener('submit', function(e) {
64     e.preventDefault();
65     let valid = true;
66     nameError.textContent = '';
67     emailError.textContent = '';
68     messageError.textContent = '';
69     successMsg.textContent = '';
70
71     if (nameInput.value.trim() === '') {
72       nameError.textContent = 'Name is required.';
73       valid = false;
74     }
75
76     if (emailInput.value.trim() === '') {
77       emailError.textContent = 'Email is required.';
78       valid = false;
79     } else if (!validateEmail(emailInput.value.trim())) {
80       emailError.textContent = 'Please enter a valid email address.';
81       valid = false;
82     }
83
84     if (messageInput.value.trim() === '') {
85       messageError.textContent = 'Message is required.';
86       valid = false;
87     }
88
89     if (valid) {
90       successMsg.textContent = 'Form submitted successfully';
91       form.reset();
92     }
93   });
94 </script>
95 </body>
96 </html>

```

## OUTPUT:

### Contact Us

Name:

chandrakiran charan

Email:

rancharan06@gmail.com

Message:

Hi everyone this is rancharan from computer science and engineering.

Submit

## OBSERVATION:

From the code given by the AI we observed that it accepts the details such as name , email and a message if the required field is not filled it displays the error message.

#### **TASK-04:**

Dynamic content Generation

#### **PROMPT:**

Generate the html code which consists of list of items and the buttons add item and remove item then by using java script make it dynamic to add the item when clicked on add item and remove the item if remove item is clicked.

#### **CODE:**



```

lab14.4 > 14.4.4.html > html > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <title>Dynamic Product List</title>
6    <style>
7      body { font-family: Arial, sans-serif; margin: 30px; }
8      ul { margin-bottom: 20px; }
9      button { margin-right: 10px; }
10   </style>
11 </head>
12 <body>
13   <h2>Product List</h2>
14   <ul id="productList">
15     <li>Product 1</li>
16     <li>Product 2</li>
17     <li>Product 3</li>
18   </ul>
19   <button id="addBtn">Add Item</button>
20   <button id="removeBtn">Remove Item</button>
21
22   <script>
23     const productList = document.getElementById('productList');
24     const addBtn = document.getElementById('addBtn');
25     const removeBtn = document.getElementById('removeBtn');
26     let productCount = productList.children.length;
27
28     addBtn.onclick = function() {
29       productCount++;
30       const li = document.createElement('li');
31       li.textContent = `Product ${productCount}`;
32       productList.appendChild(li);
33     };
34
35     removeBtn.onclick = function() {
36       if (productList.children.length > 0) {
37         productList.removeChild(productList.lastElementChild);
38         productCount = productList.children.length;
39       }
40     };
41   </script>
42 </body>
43 </html>

```

**OUTPUT:**



## **OBSERVATION:**

The AI generated the code which contains the list of product names and it has the buttons add item and remove item which works in the dynamic way.

## **TASK-05:**

Styled Modal Popup.

## **PROMPT:**

Generate a modal popup which opens when we click the button which is present on the web page use CSS to style it in an impressive way also include the hide button which hides the modal popup.

## **CODE:**

```

1044 7 // 14.5.html | @html | @head | @app | @modal
1 //<?php head-
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <title>Modal Popups Example</title>
6 <style>
7 {
8     font-family: Arial, sans-serif;
9 }
10 /* Overlay */
11 .modal-overlay {
12     display: none;
13     position: fixed;
14     top: 0; left: 0;
15     width: 100%; height: 100%;
16     background: linear-gradient(to top right, #000 49%, #000 49%, #fff 49%, #fff 49%);
17     z-index: 1000;
18     justify-content: center;
19     align-items: center;
20 }
21 /* Modal */
22 .modal {
23     background: #fff;
24     padding: 20px;
25     border-radius: 10px;
26     position: relative;
27     min-width: 300px;
28     box-shadow: 0 0 10px linear-gradient(to top right, #000 49%, #000 49%, #fff 49%, #fff 49%);
29 }
30 /* Close button */
31 .close-btn {
32     position: absolute;
33     top: 10px; right: 10px;
34     background: none;
35     border: none;
36     font-size: 1.2em;
37     cursor: pointer;
38 }
39 .modal-overlay.show {
40     display: flex;
41     animation: fadeIn 0.3s ease-out;
42 }
43 @keyframes fadeIn {
44     from { opacity: 0; } to { opacity: 1; }
45 }
46 </style>
47 </head>

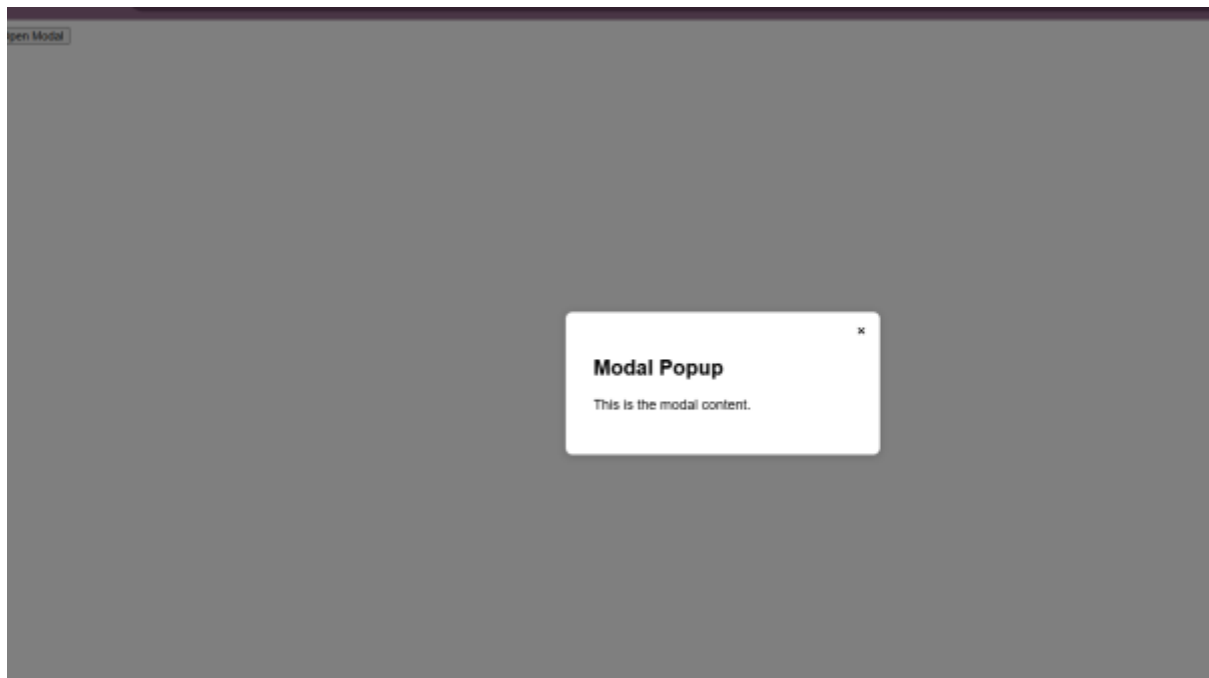
```

```

48 <body>
49 <button id="openModalBtn">Open Modal</button>
50
51 <div class="modal-overlay" id="modalOverlay">
52     <div class="modal">
53         <button class="close-btn" id="closeModalBtn">✕</button>
54         <h2>Modal Popups</h2>
55         <p>This is the modal content.</p>
56     </div>
57 </div>
58
59 <script>
60     const openBtn = document.getElementById('openModalBtn');
61     const overlay = document.getElementById('modalOverlay');
62     const closeBtn = document.getElementById('closeModalBtn');
63
64     function openModal() {
65         overlay.classList.add('show');
66     }
67
68     function closeModal() {
69         // We can add a fade-out animation here in the future if desired
70         overlay.classList.remove('show');
71     }
72
73     openBtn.onclick = openModal;
74
75     closeBtn.onclick = closeModal;
76
77     // Close modal when clicking on the overlay area
78     overlay.onclick = (e) => {
79         if (e.target === overlay) {
80             closeModal();
81         }
82     };
83
84 </script>
85 </body>
86 </html>

```

**OUTPUT:**



### **OBSERVATION:**

The code generated by AI contains a button which displays a modal popup by clicking on it . the AI styled the modal popup in an impressive way.