# CET-223

# Web Technologies

# Experiment # 10

## Experiment Title

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|---|
| Open Ended Activity - I |

## Assessment of CLO(s): 04

## Performed on _____

| | | | |
|---|---|---|---|
| **Student Name:** | | | |
| **Roll No.** | | **Group** | |
| **Semester** | | **Session** | |

| **Total (Max)** | **Performance (03)** | **Viva (03)** | **File (04)** | **Total (10)** |
|---|---|---|---|---|
| **Marks Obtained** | | | | |
| **Remarks (if any)** | | | | |

## Experiment evaluated by

| | | | |
|---|---|---|---|
| **Instructor's Name** | **Engr. Bilal Iqbal** | | |
| **Date** | | **Signature** | |

# Objective:

Create a functional and responsive clone of the Gmail sign-in page using HTML, CSS, and JavaScript. Focus on creating a user-friendly interface that closely resembles the Gmail login page, incorporating form validation and interactive features for enhanced functionality.

# Requirements:

1. **Page Layout:**
    - Use HTML to create the structure of the sign-in page.
    - Include:
        - A header with the Google logo (use a placeholder image for the logo).
        - A sign-in form that contains:
            - An email/phone input field.
            - A password input field (visible after email is entered).
            - "Forgot email?" and "Create account" links.
            - A "Next" button to submit the form.
    - Add a footer with links (Privacy, Terms) that should be fixed at the bottom.
2. **Styling:**
    - Use CSS to style the page to closely resemble Gmail's sign-in page:
        - Center the sign-in form vertically and horizontally.
        - Use modern fonts, colors, and spacing similar to Google's design.
        - Ensure the page is responsive and looks good on various screen sizes (mobile, tablet, desktop).
    - Create hover effects for buttons and links.
3. **Form Interactivity (JavaScript):**
    - Add validation to the email/phone input field:
        - Display an error message if the email/phone format is incorrect or if the field is empty when the user clicks "Next".
    - After a valid email/phone is entered and "Next" is clicked:
        - Hide the email field.
        - Display the password field.
    - Validate the password field to ensure it is not empty when submitted.
    - Show an error message if the password field is empty.
4. **Advanced (Optional):**
    - Implement basic local storage to simulate storing and retrieving user credentials.
    - Add a toggle for "Show password" functionality.

**Lab Instructions:**

1. **HTML:**
    - Create a form element that includes input fields for email/phone and password.
    - Use appropriate HTML5 form attributes for input validation (e.g., required, type="email").
    - Add buttons and links within the form.
2. **CSS:**
    - Use Flexbox or CSS Grid to position and align elements.
    - Style the input fields and buttons to resemble Gmail's design.
    - Apply responsive design techniques to ensure the page is usable on all devices.
3. **JavaScript:**
    - Write a script to handle form validation.
    - Add event listeners for button clicks to dynamically show/hide the password field after email validation.
    - Display error messages below the input fields when validation fails.

**Deliverables:**

- A working Gmail sign-in page clone that meets the above specifications.
- The HTML, CSS, and JavaScript files used to build the page.
- A brief explanation of how you implemented the form validation and any additional features you added (optional).

**Evaluation Criteria:**

| Criteria | 9-10 (Excellent) | 7-8 (Good) | 5-6 (Fair) | 1-4 (Needs Improvement) |
|---|---|---|---|---|
| Layout, Design, Structure, Styling, Responsiveness, Interactivity, and Validation | Accurately replicates Gmail's layout and design with well-structured HTML and effective CSS; fully responsive on all devices; smooth JavaScript interactivity, including thorough form validation and informative error handling; clean, well-organized code with comments. | Mostly resembles Gmail's design with minor deviations; HTML and CSS are mostly well-organized; responsive on most devices; JavaScript interactivity works with some minor issues; validation is present but could handle more cases; code is organized with minor improvements needed. | Some resemblance to Gmail's design but with noticeable differences; basic HTML structure and CSS styling; partially responsive; some JavaScript interactivity works, but validation is incomplete or inconsistent; code is somewhat unorganized. | Poor design resemblance with many issues; disorganized HTML and ineffective CSS; not responsive; little or no JavaScript interactivity or form validation; code is disorganized and lacks comments |