

## Task 5: Dynamic Login Form Using JavaScript

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### Objective

Create a visually appealing and fully functional login form dynamically using JavaScript, with clean styling using CSS.

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### Responsibilities and Steps

#### 1. HTML Structure with JavaScript

- Use JavaScript to dynamically generate the entire login form.
- The form should include:
  - A heading, such as "Login."
  - Labels and input fields for **email** and **password**.
  - A "Login" button for submission.
- Append the form to the page using JavaScript.

#### 2. CSS Styling

- Style the form to center it on the screen for both desktop and mobile views.
- Add padding, borders, and rounded corners to the form and its elements.
- Style the input fields with appropriate background colors and clear borders.
- Make the "Login" button visually distinct with a background color, hover effect, and rounded edges.

#### 3. Form Layout

- Organize the form with proper spacing between elements for a clean, user-friendly interface.
- Use line breaks or flexbox/grid techniques to ensure the form is well-structured.

#### 4. JavaScript Functionality

- Dynamically generate all form elements, including the email and password fields and the button.
- Attach an event listener to the "Login" button to handle user interactions, such as:
  - Alerting the email and password values when the button is clicked.
  - Preventing form submission until all fields are filled.
- Ensure the form reacts dynamically to user input, e.g., highlighting empty fields or errors.

#### 5. Testing and Improvements

- **Testing:**
    - Verify that the login form is displayed correctly across various devices and screen sizes.
    - Ensure the "Login" button retrieves and processes the email and password values.
  - **Improvements:**
    - Add responsive design using CSS for better mobile compatibility.
    - Handle edge cases, such as empty fields, invalid email formats, or short passwords.
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## Deliverables

1. A dynamically generated login form created using JavaScript.
2. Fully styled form with CSS for a clean, responsive design.
3. Functional button and form interactions using JavaScript.
4. Tested and documented implementation process.

Would you like assistance documenting the exact steps to test this form?

## Deadline Compliance

- **Restriction:** **Submit the project within 7 days** from the start date.
- **Reason:** Meeting deadlines is crucial in the real-world software development environment. This restriction helps students practice **time management** and **task prioritization**. In professional settings, tight deadlines are often the norm, and learning to meet them without compromising quality is an essential skill.
- **Learning Outcome:** Students will learn to manage their time effectively, complete projects under pressure, and **deliver results on time**, which are all important skills in the workplace.