

Module 1 – Frontend Web Development

JavaScript DOM Manipulation Exercise 02

Overview

You are tasked with creating a "Dynamic Profile Card" webpage. Users should be able to interact with the profile card and update its content and appearance directly through JavaScript DOM manipulation. This exercise focuses on accessing and modifying existing HTML elements.

Instructions:

Complete the tasks below to build an interactive profile card.

Set Up the Profile Card:

1. Create an empty HTML file with the title: "Dynamic Profile Card".
2. Add a main `<div>` with the id of **profileCard**.
3. Inside **profileCard**, add the following elements:
 - a. An `` tag with a placeholder `src` (e.g., <https://placeholder.co/100x100>) and an `id` of **profileImage**.
 - b. An `<h2>` tag with an `id` of **profileName** and initial text like "John Doe".
 - c. A `<p>` tag with an `id` of **profileRole** and initial text like "Software Developer".
 - d. Another `<p>` tag with an `id` of **profileBio** and initial text like "Passionate about coding and learning new technologies."
 - e. A `<button>` with the text "Update Name" and an `id` of **updateNameBtn**.
 - f. A `<button>` with the text "Update Role" and an `id` of **updateRoleBtn**.
 - g. A `<button>` with the text "Toggle Active Status" and an `id` of **toggleStatusBtn**.

Task 1: Update Name and Role:

1. Write JavaScript to listen for a **click** event on the **updateNameBtn**.
2. When clicked, prompt the user for a new name using **prompt()**.
3. Update the **textContent** of the **profileName** element with the new name.
4. Do the same for the **updateRoleBtn** and **profileRole**.

Task 2: Toggle Active Status:

1. Write JavaScript to listen for a click event on the **toggleStatusBtn**
2. When clicked, toggle a CSS class named **active-status** on the **profileCard** div.
 - (Hint: You'll need to define **.active-status** in a `<style>` tag in your HTML, e.g., to change background color.)

Task 3: Change Profile Image (Bonus - if time permits):

1. Add another button with the text "Change Image" and an `id` of **changeImageBtn**.
2. When clicked, prompt the user for a new image URL.
3. Update the **src** attribute of the **profileImage** element with the new URL.

Submission:

After completing your code, upload your files to the LMS. Display the webpage in your browser and demonstrate your working solution to your lecturer for review.