

Exercise 4 - Dynamic Form

Objective: Develop a dynamic form where users can add input fields dynamically and submit the form to gather all entered values.

Instructions:

1. Understanding the HTML:

- The HTML structure consists of a `<button>` for adding new fields and a `<form>` where these fields will be appended. Additionally, there is another button within the form to submit the entered data.

2. JavaScript:

◦ Adding New Input Fields:

- Write a function `addField()` that will be used to dynamically add new input fields to the form:
 1. Create a new `input` element using `document.createElement('input')`.
 2. Then append this newly created input to the form using `appendChild()`.

◦ Submitting the Form:

- Write a function `submitForm()` that will be responsible for gathering all entered values from the input fields and ensuring they are filled:
 1. All input fields within the form will be selected using `document.querySelectorAll('#dynamicForm input')` and stored in the `inputs` variable.
 2. Set a flag `allFilled` to true initially, which will help you check if all fields are filled later.
 3. Iterate through each input field using the `forEach` loop.
 - For each input field, if the input doesn't have a value, set `allFilled` to `false`.
 - Now append each input's value to the `message` string.
 4. After the loop, check the `allFilled` flag:
 - If it's false, alert the user to fill all fields.
 - If it's true, display an alert showing all the gathered values.

3. HTML:

- Use the attached HTML code for this exercise.

4. User Interaction:

- Clicking the "Add Field" button should create a new input field in the form.
- Filling in some data and clicking the "Submit" button should either alert the user to fill all fields or show an alert with all the values separated by a comma.

5. Testing the Dynamic Form:

- Open the HTML file in a browser.
- Click the "Add Field" button multiple times to ensure multiple fields are added.
- Try filling in some data and leave some fields empty. Click "Submit" and ensure you get an alert asking to fill all fields.
- Fill in all fields and click "Submit" again. This time, you should see an alert displaying all the values you entered.