AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)
Department of Computer Science (CS)
Course: Web Technologies

Lab Task 02: Form Submission Using AJAX (POST Request)

Instructions:

1. **Complete the task using HTML, JavaScript (Vanilla JS), and PHP.**
2. **Do not reload the page during form submission.**
3. **Do not use external JavaScript libraries.**
4. **Push all files to your GitHub repository after completion.**

Scenario:

Instead of submitting forms traditionally (which causes a page reload), modern web applications use AJAX-based form submission. In this lab, you will send form data to a PHP script asynchronously and display the server response dynamically.

Task Requirements:

Create the following files:

- index.php – AJAX form
- process_form.php – server-side processor

Part A: AJAX Form (index.php)

Create a form containing:

- Name (text input)
- Email (email input)
- Submit button

Requirements:

- Prevent default form submission
- Submit form data using AJAX POST
- Display server response in a <div>

Part B: JavaScript AJAX Logic

Your JavaScript code must:

1. Capture form submit event

2. Create XMLHttpRequest object

3. Send data using POST method

4. Set request header

5. Handle success and error responses

Part C: Server-Side Processing (process_form.php)

1. Retrieve form data using $_POST.

2. Validate:

- Name must not be empty
- Email must be valid

3. Return response messages:

- Success message if validation passes
- Error message otherwise