FACULTY OF COMPUTING & INFORMATION TECHNOLOGY
KING ABDULAZIZ UNIVERSITY

كلية الحاسبات وتقنية المعلومات
جامعة الملك عبدالعزيز

King Abdulaziz University

Faculty of Computing & Information Technology

Information Technology Department

Course: CPIT-405 (Internet Applications)
Semester: Fall 2025

Assignment 2:
Fetch & Display Data from Public APIs
Submission Deadline: 13-11-2025

Objective

The aim of this project is to help you understand how to interact with public APIs using JavaScript's fetch API. You will build a small web application that fetches data from any free public API of your choice, displays the data on a webpage, and includes at least one input interaction such as a search box or a button to fetch new data.

Project Requirements

1. **Use of JavaScript Fetch API**
    - Use JavaScript to fetch data from any **free public API**.
    - You can pick any API you like, as long as it does not require authentication (for simplicity).
2. **Data Display**
    - Display the fetched data clearly and neatly in your HTML page.
    - Use appropriate HTML elements to present the information in a user-friendly manner (e.g., lists, tables, cards).
3. **User Interaction**
    - Include **at least one input element** that allows user interaction:
        - This could be a search input (e.g., typing a university name to search using the API: http://universities.hipolabs.com/search?name=king)
        - Or a button to fetch new data (e.g., clicking a button to get a new random user using the API: https://randomuser.me/api).
    - Based on the user's input or action, update the displayed data accordingly.
4. **Frontend Only**
    - This is a **frontend-only** project — no backend or database is required.
    - All work should be done using **HTML, CSS, and JavaScript**. You may use **ReactJS** if you prefer.

Examples & API Suggestions

If you are not sure where to start, here are a few beginner-friendly APIs and examples:

- **Random User Generator:**
  API: https://randomuser.me/api
  Example Project: https://randomuser.me/
  → This page displays a random fake user profile with their name, photo, address, etc. every time it is loaded or refreshed. You can create something similar using the API and a "Generate User" button.
- **University Search API:**
  API: http://universities.hipolabs.com/search?name=king

→ This API allows you to search for universities by name. The name parameter is a **query parameter** — for example:

- name=king returns universities that include the word "king"
- name=harvard returns Harvard University, if available

- **More APIs to Explore:**
  - https://apipheny.io/free-api/
  - https://github.com/public-apis/public-apis

Submission Requirements

- Upload the project to **GitHub Pages** and include the live link in the submission.
- Submit a **ZIP file** containing all project files.
- Name the ZIP file as **your student ID.zip** (e.g., 12345678.zip).
- Upload the ZIP file to the **Microsoft Teams** section of the course.

Grading Rubric

Your project will be evaluated based on the following criteria. Use the table below to self-assess your work.

Criterion	Mark
Successfully fetches data from an API	0.5
Displays data clearly and meaningfully	0.5
Implements interactive input (such as an input text field or a button to fetch new data)	0.5
GitHub Pages live link provided	0.5
Total	**/ 2**

```
<script>
console.log("You got this! 🚀 Just one fetch() away from greatness.");
</script>
```