# $AMALIT \equiv CH$

#### Week 2.3

Lab Activity: Advice Generator App

# **Learning Objectives:**

- API Calls: Practice making asynchronous requests to fetch data from an external API.
- Promises: Understand and implement promises to handle the asynchronous nature of API calls.
- Async/Await (Optional): Explore the more modern async/await syntax for working with promises.
- **DOM Manipulation & Event Handling:** Update the UI dynamically based on the fetched advice.
- Error Handling: Implement error handling mechanisms for failed API requests.

### **Project Setup:**

- 1. **Get the Project Files**: Download the project files from the link given by the trainer.
- 2. **Familiarize with the UI:** Review the provided HTML, CSS, and design assets to understand the layout and desired functionality.

# Tasks:

- 1. HTML Structure:
  - Analyze the provided HTML to identify elements for displaying the advice, button, and any loading indicators.
  - Ensure all necessary elements are present and have the appropriate IDs or classes for JavaScript interaction.

#### 2. CSS Styling:

- Customize the CSS (or use the provided styles) to match the design requirements.
- Focus on layout, typography, colors, and responsive design.
- 3. JavaScript Functionality:
  - API Interaction:
    - o Identify the API endpoint provided in the project instructions.
    - o Use fetch (or a library like Axios) to make a GET request to the API.

## Use Promises (or async/await) to handle the response:

- 1. Parse the JSON response data.
- 2. Extract the advice text and ID.
- 3. Update the UI elements with the fetched advice.

#### o Event Handling:

- Add an event listener to the button to trigger a new advice request when clicked.
- 2. Optionally, display a loading indicator while the request is in progress.

#### o Error Handling:

- Catch and handle errors gracefully if the API request fails (e.g., display an error message).
- 2. Implement a retry mechanism (e.g., a "Try Again" button) in case of errors.

#### **Evaluation:**

#### • Functionality:

- o Advice is fetched and displayed correctly in the UI.
- Clicking the button triggers a new advice request.
- o Error handling is implemented for failed requests.

#### Code Quality:

- o Clean, organized, and well-structured JavaScript code.
- o Effective use of promises (or async/await) for asynchronous operations.
- o Proper DOM manipulation and event handling techniques.

#### UI/UX:

- o The application matches the design provided.
- o The interface is intuitive and easy to use.
- o Loading indicators and error messages enhance the user experience.