AIN SHAMS UNIVERSITY FACULTY OF ENGINEERING

Computer and Artificial Intelligence Engineering Program (Senior 1 Level), Computer and Systems Engineering



Spring, 2024/2025

Course Code: CSE 341 & CSE 334

Internet Programming Assignment

Interactive Task Manager Web Application

Objective:

Create a simple fully functional task manager web application using HTML, CSS, and JavaScript. The application should allow users to:

- 1. Add new tasks.
- 2. Mark tasks as completed.
- 3. Clear completed tasks.
- 4. Delete tasks.
- 5. Filter tasks by:
 - o All tasks
 - Active tasks (not completed)
 - Completed tasks.

Features:

- 1. **Add Tasks**: The user should be able to input a task through a text box and add it to a task list by clicking the "Add Task" button. Each task should be displayed with its name and a delete button.
- 2. **Mark Tasks as Completed**: Users can click on a task's name to toggle its completion status. When a task is marked as completed, it should have a strikethrough effect and change color (e.g., gray).
- 3. **Delete Tasks**: Users can remove tasks from the list by clicking a "Delete" button next to each task.
- 4. **Task Filtering**: The application should allow users to filter tasks based on their status:
 - All Tasks: Displays all tasks, regardless of whether they are completed or active.
 - o **Active Tasks**: Displays only tasks that are yet to be completed.
 - o Completed Tasks: Displays only tasks that have been marked as completed.

- 5. **Remaining Tasks Counter**: The application should display the number of **remaining active tasks** at the bottom of the task list. This counter should automatically update whenever tasks are added, completed, or removed.
- 6. **Clear Completed Tasks**: Provide a button that, when clicked, removes all tasks that have been marked as completed from the task list.

Implementation Requirements:

• HTML:

- Use HTML tags to structure the layout of the web page.
- Include input fields to add a new task.
- o Include buttons for adding a new task, clearing completed tasks, and filtering tasks by status (All, Active, Completed).

• **CSS**:

- o Style the app to make it visually appealing, responsive and user-friendly.
- o Create distinct styles for completed tasks.
- Style buttons and inputs for usability (make the buttons with awesome hover effects).

JavaScript:

- o Implement the functionality of the task manager, including:
 - Task addition.
 - Task deletion.
 - Marking tasks as completed.
 - Filtering tasks by their status (All, Active, Completed).
 - Updating the remaining active task number.

Submission Guidelines:

- The assignment is individual.
- Submit the full HTML, CSS, and JavaScript code in a single zipped folder (in case of there are 3 separate files) and name it with (your Name your ID).
- Upload your assignment to this Form.
- **Deadline:** Thursday: 24/4/2025 at 11:59 PM.

<u>NOTE:</u> Strictly avoid copying your colleague's assignment. That would amount to **plagiarism**. Penalty in case plagiarism is detected: zero marks will be assigned for all students whose assignment would be considered as plagiarized OR copies of each other.