

National University of Computer and Emerging Sciences



Laboratory Manual

for

Web Engineering (SL3003)

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Quiz: 2

Instructions:

- You have 1 hour to complete all tasks.
- Use **jQuery wherever required** for DOM manipulation, event handling, and interactivity.
- Ensure **proper validation and error handling**.
- **Do not refresh the page**; all interactions should be handled dynamically.

Submission Instructions:

Copy all your code into a word document.

Task 1: To-Do List with Local Storage

[10marks]

Develop a simple To-Do List application using jQuery with Local Storage to retain tasks across page reloads.

Create an **input field** where users can type a new task.

Add a **"Add Task"** button that:

- Appends the new task to a **list of tasks** dynamically.
- Stores the tasks in **Local Storage** so they persist even after a page refresh.
 - Each task should have a **"Delete"** button to remove it from the list dynamically.
 - Clicking **"Delete"** should also **remove the task from Local Storage**.
 - Implement a **"Clear All"** button that:
- Deletes all tasks from the **list and Local Storage**.
- The application should be **responsive** and user-friendly.

Task 2: Interactive Quiz with Timed Questions

[10marks]

Build a **JavaScript Quiz Game** that dynamically presents one question at a time and records user answers.

- Predefine a **set of 5 multiple-choice questions** (each with 4 options).
- Display **one question at a time**.
- Include a **"Next"** button to move to the next question.
- Use **jQuery to track the selected answer** and store the user's response.
- Implement a **10-second timer per question**:

- If the user **does not answer within 10 seconds**, automatically move to the next question.
- At the end of the quiz:
 - **Display the final score** based on correct answers.
 - Show a "**Restart Quiz**" button that reloads the quiz.
- Ensure the quiz is **responsive and user-friendly**.