ToDo List Project

What it does (project description)

A clean, responsive To-Do app where users can:

- Add tasks with optional tag and due date

- Mark tasks complete/incomplete

- Edit task titles inline

- Filter by **All / Active / Completed**

- Search tasks by text

- Clear all completed tasks

- See live stats (e.g., "3 remaining, 2 completed")

- Sort by **A–Z / Newest / Due date**

How it meets the requirements

- **Variables**: tasks, filterMode, searchQuery, sortMode, counters.

- **Comments**: Inline docs explaining functions and tricky logic.

- **Operators**: Increment/decrement counts, comparisons for sorting/filtering.

- **Functions**: addTask(), toggleComplete(id), editTask(id, text), deleteTask(id), clearCompleted(), filterTasks(), render(), saveToLocal(), loadFromLocal().

- **Objects**: Each task: { id, text, completed, tag, due, createdAt }.

- **Events**: Form submit (add), button clicks (complete/delete/clear), input events (search/edit), tab clicks (filters), select change (sort).

- **Strings**: Task text, tags, search query, UI labels.

- **Arrays/Maps**: tasks array; optional Map for quick lookup by id.

- **Attractive HTML interface + interaction**:

  o Header with title + input bar

  o Filter tabs and search

  o Task list with checkboxes, tag pills, due dates, delete icons

  o Footer with stats, bulk actions, sort controls

  o Mobile-first C

  o SS (cards, spacing, hover/focus states)

Wireframe

Header: To-Do List App

| **Input: Add new task... (text)** | **Button: Add** |

| **All** | **Active** | **Completed** | **Search [ ]** |

Task List

[ ]	**Task 1 title (click to edit)**	**Tag**	**Due**	**Del**
[ ]	**Task 2 title (click to edit)**	**Tag**	**Due**	**Del**
[ ]	**Task 3 title (click to edit)**	**Tag**	**Due**	**Del**
[ ]	**Task 4 title (click to edit)**	**Tag**	**Due**	**Del**
[ ]	**Task 5 title (click to edit)**	**Tag**	**Due**	**Del**

| **Stats: 3 remaining | 2 completed** | **Bulk: Mark all done | Clear completed** | **Sort: A-Z | Newest | Due date** |