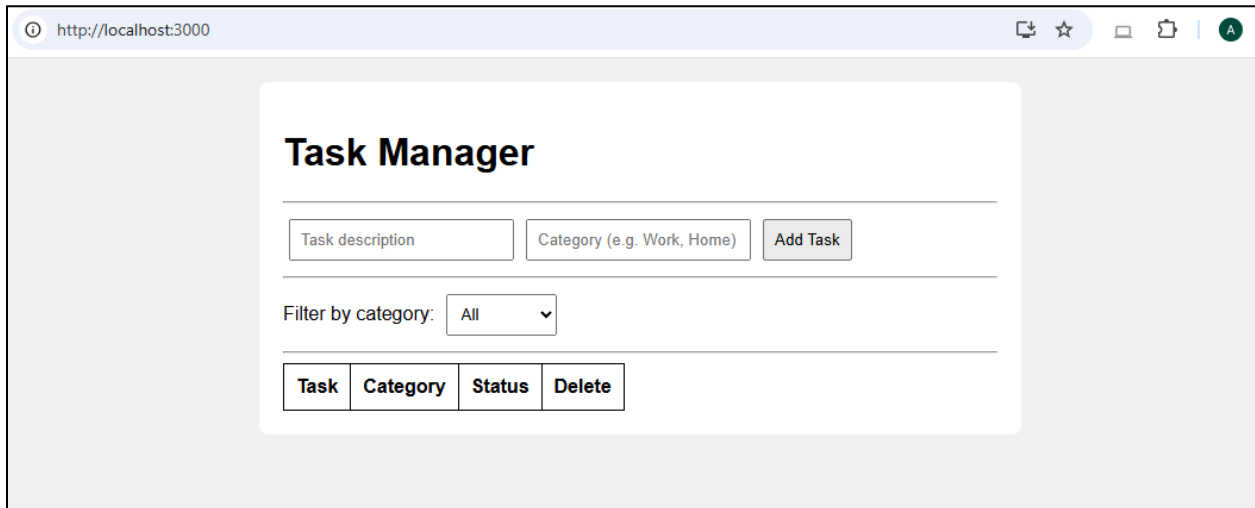# React - Guided Project

Problem Statement

Create a React Application (Task Manager) to add and show tasks. Also, filter tasks based on category and delete the tasks as needed.

Home Page

Create a Home Page with the following elements:
- A **header** titled **"Task Manager"**.
- A **form** to add a new task (including fields like task name and category).
- A **category filter dropdown** to display tasks belonging to the selected category.
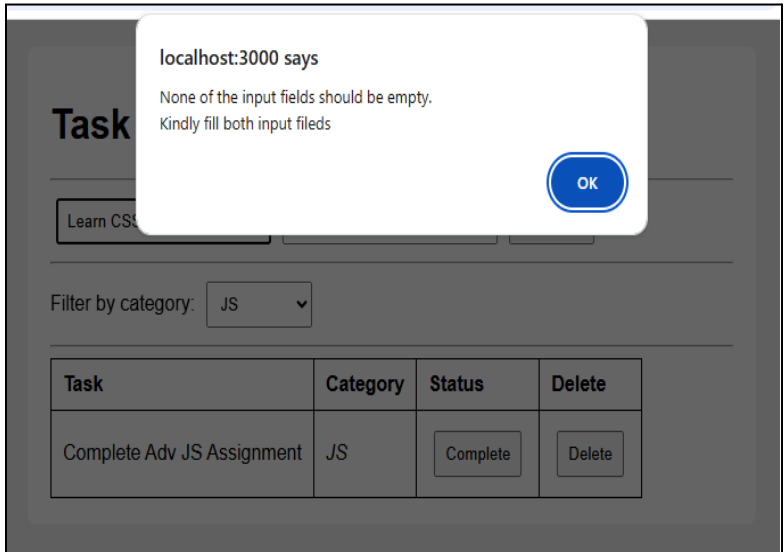- Below the filter, display a **table of tasks** (only if tasks have been added).

Form Requirements

1. When the **"Add Task"** button is clicked, **validate** all input fields to ensure none are left empty.
2. If **any field is empty**, display an **alert message** indicating that all fields are required (as shown in the screenshot).
3. If **all fields are filled**, add the new task to the task list and update the display accordingly (as shown in the screenshot).

Table Requirements

1. Each task displayed in the table should include **"Complete"** and **"Delete"** buttons.

2. When the **"Complete"** button is clicked:
   - Apply a **strike-through** style to the task text.
   - Change the button label to **"Undo"**.

3. When the **"Undo"** button is clicked:
   - Remove the **strike-through** from the task text.
   - Change the button label back to **"Complete"**.

4. When the **"Delete"** button is clicked:
   - **Remove the task** from the list.
   - **Update the table** to reflect the change.

Filter Functionality

1. Retrieve all **unique categories** from the existing task list and populate them in a **dropdown menu**.

2. When a **category is selected** from the dropdown, **filter** and display only the tasks that belong to the selected category in the table.

3. Ensure the **dropdown options update dynamically** whenever a task is **added** or **deleted**, so the list of categories remains current.

!!! Happy Coding !!!