

## React - Guided Project

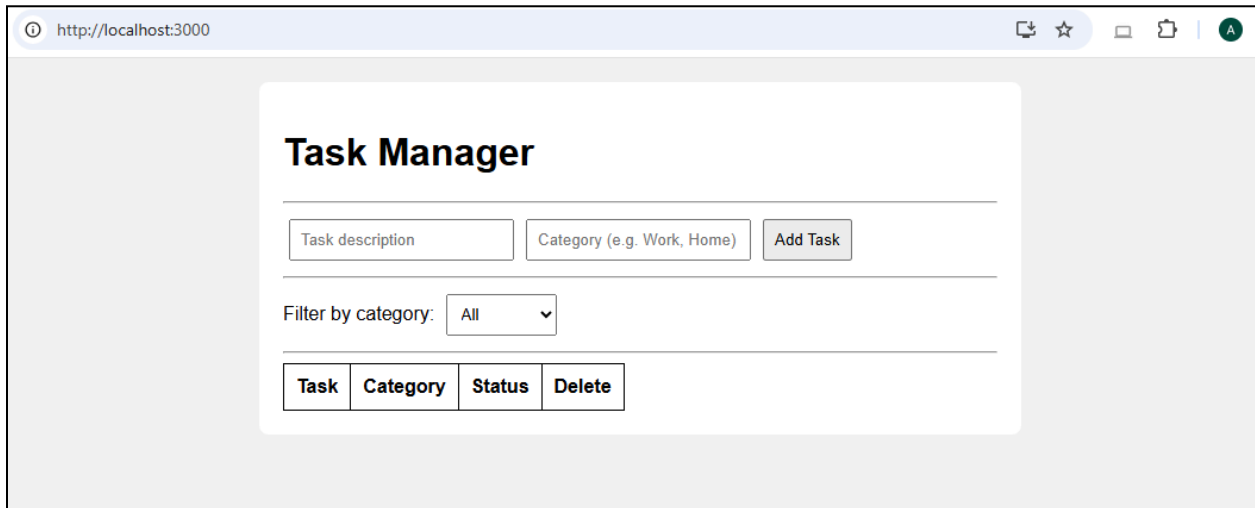
### Problem Statement

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).



Task Manager

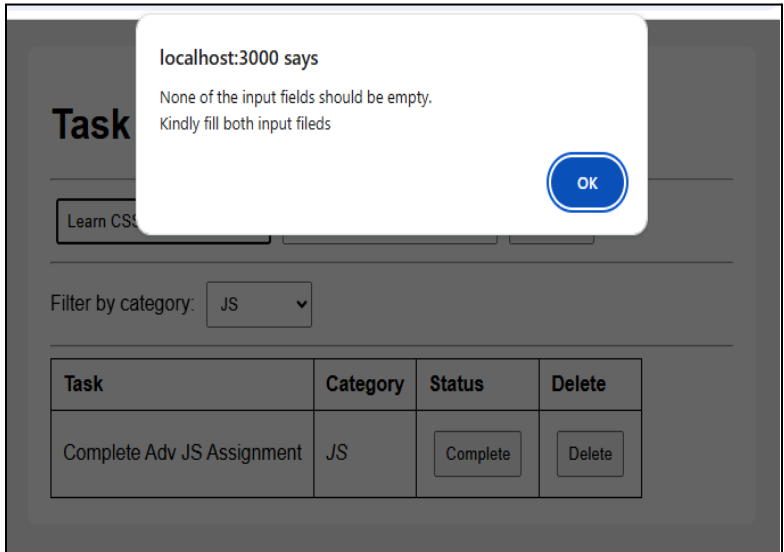
Task description Category (e.g. Work, Home) Add Task

Filter by category: All

Task	Category	Status	Delete
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## 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).



### Task Manager

Filter by category: All ▼

Task	Category	Status	Delete
Practice DOM	JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>
Complete Adv JS Assignment	JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>
Learn Props and State	React JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>

## 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.

## Task Manager

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Filter by category: All ▼

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Task	Category	Status	Delete
Practice DOM	JS	<input type="button" value="Undo"/>	<input type="button" value="Delete"/>
Complete Adv JS Assignment	JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>
Learn Props and State	React JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>

### 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.

## Task Manager

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Filter by category: JS ▼

Task	Category	Status	Delete
Practice DOM	JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>
Complete Adv JS Assignment	JS	<input type="button" value="Complete"/>	<input type="button" value="Delete"/>

!!! Happy Coding !!!