

React - Guided Project

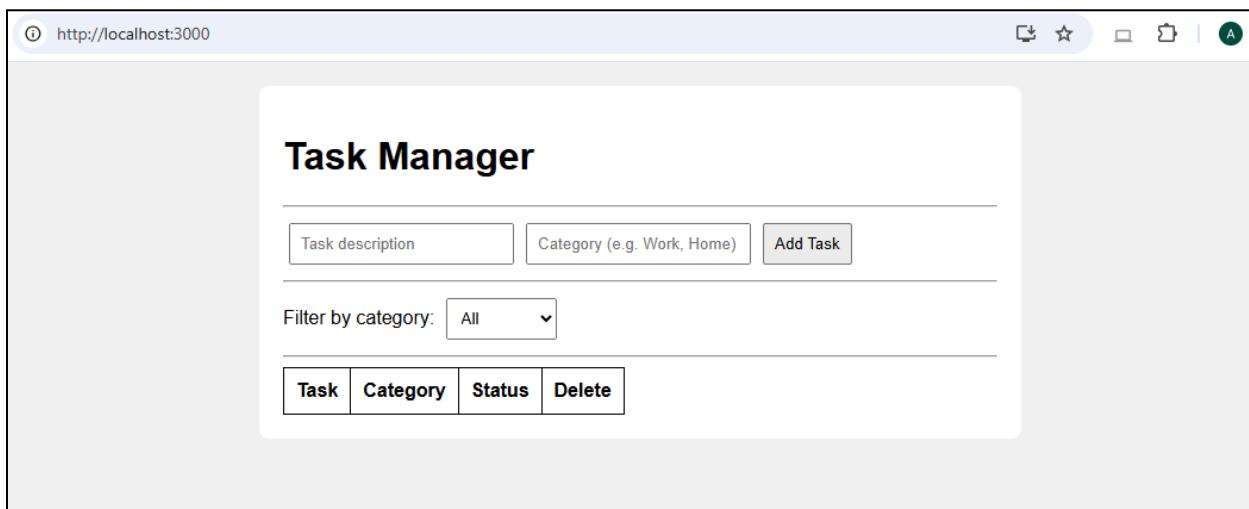
Problem Statement

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

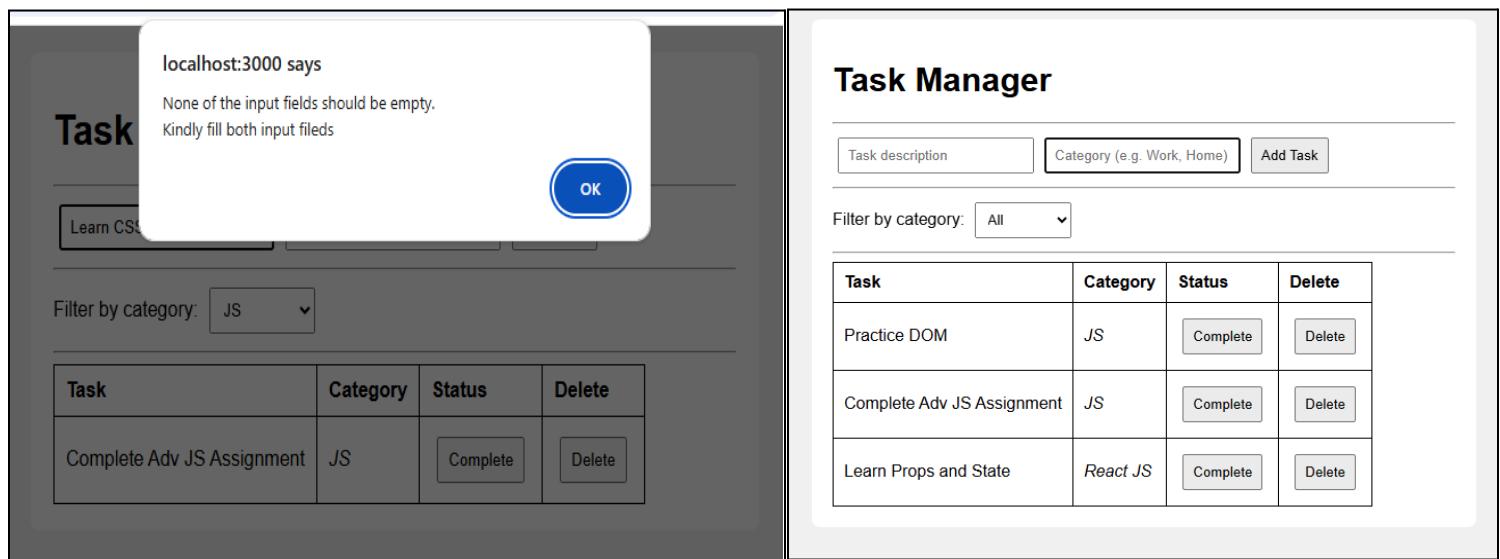
Create a Home Page with the following elements:

- 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

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



The screenshot shows two parts of a web application: a modal dialog and a main task manager page.

Modal Dialog:

- Header: localhost:3000 says
- Message: None of the input fields should be empty.
Kindly fill both input fields
- Buttons: OK

Main Task Manager Page:

- Header: Task Manager
- Form: Task description, Category (e.g. Work, Home), Add Task
- Filter: Filter by category: All
- Table:

Task	Category	Status	Delete
Complete Adv JS Assignment	JS	<button>Complete</button>	<button>Delete</button>

Table Requirements

- Each task displayed in the table should include "Complete" and "Delete" buttons.
- When the "Complete" button is clicked:
 - Apply a **strike-through** style to the task text.
 - Change the button label to "**Undo**".
- When the "Undo" button is clicked:
 - Remove the **strike-through** from the task text.
 - Change the button label back to "**Complete**".
- When the "Delete" button is clicked:
 - Remove the task** from the list.
 - Update the table** to reflect the change.

Task Manager

<input type="text" value="Task description"/>	<input type="text" value="Category (e.g. Work, Home)"/>	<input type="button" value="Add Task"/>
-----------------------------------------------	---------------------------------------------------------	-----------------------------------------

Filter by category:	<input type="button" value="All"/> ▼
---------------------	-----------------------------------------------------------------------------

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

<input type="text" value="Task description"/>	<input type="text" value="Category (e.g. Work, Home)"/>	<input type="button" value="Add Task"/>
-----------------------------------------------	---------------------------------------------------------	-----------------------------------------

Filter by category:	<input type="button" value="JS"/> ▼
---------------------	----------------------------------------------------------------------------

All
JS
React 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 !!!