**Task Management Application - Project Overview**

This project is a **Task Management Application** built using **React**. The main goal of the app is to help users organize their daily tasks efficiently by allowing them to create, track, and manage tasks through a user-friendly web interface.

**Technologies Used**

The application is developed using:

* **React (Create React App)** for building the user interface
* **JavaScript**  for application logic
* **CSS** for styling and responsive design
* **Local Storage** for saving data in the browser

**Core Features**

1. **Add Tasks:**  
   Users can add a new task by entering a title and an optional description. There's also an option to set a due date for each task.
2. **View Tasks:**  
   The app displays all tasks in a list. Each task item shows the title, description, due date, and its current status (complete or incomplete).
3. **Mark Complete/Incomplete:**  
   Users can click a button to mark a task as completed or revert it back to active.
4. **Delete Tasks:**  
   Tasks can be deleted permanently using a delete button next to each item.
5. **Filter Tasks:**  
   The app allows users to filter tasks using three buttons: **All**, **Active**, and **Completed**. This makes it easier to focus on current tasks or review completed work.
6. **Data Persistence with Local Storage:**  
   All tasks are saved in the browser’s local storage, which means tasks won’t disappear after a page refresh or browser restart.

**Responsive Design**

The interface is built to be easy to use. It automatically adjusts layout and font sizes to work well on desktops, tablets, and mobile devices. Completed tasks are visually marked with a strikethrough and lighter color for clarity.

**Common Issue – Local Storage Not Working**

A common issue face is when tasks don’t persist across refreshes. This usually happens due to one of the following:

* Incorrect usage of localStorage.getItem() or setItem()
* AddTaskForm not calling the function that updates the task list
* Browser restrictions in incognito mode or strict privacy settings

**Conclusion**

This app demonstrates key React concepts like component structure, state management with hooks, side effects using useEffect, and conditional rendering. It also incorporates practical skills such as local data storage and responsive design, making it a solid mini-project for learning React fundamentals.