# React Assignment – Build a To-Do Application

**Objective**

You are required to build a fully functional **To-Do application** from scratch using React.js. This assignment will test your understanding of React fundamentals, localStorage for persistence, Git/GitHub workflow, and problem-solving skills.

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## ⚡ Requirements

**Start from Scratch**
- Do not copy code from today's session.
- Initialize a new React project using either **create-react-app** or **Vite**.

**Core Features (Mandatory)**
- Add a new task.
- Mark a task as completed.
- Delete a task.
- Edit a task.
- Tasks should **persist in localStorage** (refresh should not clear them).

**Additional Requirements**
- Each task should also have a **priority level** (High / Medium / Low).
- Tasks should be **sortable by priority**.
- Add a **search bar** to filter tasks by name.
- Apply **basic but clean styling** (use CSS or Tailwind).

**Bonus (Optional)**
- Add a **due date** for each task and highlight overdue tasks in **red**.
- Add a **dark mode toggle**.

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## 📂 Submission Instructions
- You must use **GitHub** to host your project.
- Push your complete project code to a **public repository**.
- Share the GitHub repo link with us.

📧 **Submit to:** [aman.k.sharma@cepialabs.in](mailto:aman.k.sharma@cepialabs.in)

## ⚠️ Rules
- Plagiarism (**copy-pasting code**) will not be accepted.
- Each student must write their own code.
- You are free to research solutions, but implementation must be original.

## 👉 This way you'll:
- Use React hooks, states, props, localStorage.
- Handle sorting, filtering, conditional styling.
- Practice GitHub workflow.
- Struggle a little with extra features like sorting, due dates, and dark mode.