

Project Requirements Document

Project Name: Task Manager Application

1. Overview

The Task Manager Application is a simple, lightweight task management tool built with **React**. It will allow users to create, update, delete, and manage their tasks efficiently, with all data stored in **localStorage**.

2. Objectives

- Provide an intuitive interface for users to manage tasks.
- Support adding, updating, and deleting tasks.
- Enable categorization of tasks with **priorities** and **statuses**.
- Persist tasks using **localStorage**.

3. Features & Requirements

3.1. Core Features

- **Create Task:** Users can add a new task with a title, description, priority, and due date.
- **Edit Task:** Users can update task details.
- **Delete Task:** Users can remove tasks individually or in bulk.
- **Mark as Completed:** Users can mark tasks as done.
- **Task Status:** Users can categorize tasks as **To-Do**, **In Progress**, **Completed**.
- **LocalStorage Persistence:** All tasks are saved in localStorage to ensure persistence across sessions.

3.2. Additional Features (Optional)

- **Dark Mode Support**

4. User Stories

1. **As a user**, I want to add new tasks so that I can keep track of my work.
2. **As a user**, I want to edit tasks to update details if needed.
3. **As a user**, I want to delete tasks to keep my task list clean.
4. **As a user**, I want to mark tasks as completed when I finish them.
5. **As a user**, I want my tasks to be saved across page reloads.

5. Technical Stack

- **Frontend:** React
- **Data Storage:** LocalStorage (`window.localStorage`)
- **UI Library:** Bootstrap (Optional)

6. UI/UX Design Considerations

- Simple and clean UI with minimal distractions.
- Responsive design for both desktop and mobile.

7. Success Metrics

- Smooth user experience with minimal clicks.
- Instant task updates without page reloads.
- Efficient data retrieval and persistence via localStorage.

8. Data Structure

```
"title": "Task Title",  
"description": "Task Description",  
"status": "In Progress",  
"priority": "High"
```