



# TASK MANAGER

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# INTRODUCTION

- Task Manager is a Single Page Application (SPA) built with Angular.
- It helps users create, update, delete, and manage tasks efficiently.
- Uses modern Angular features to provide a smooth and interactive UI.

### Task Manager Login

Username

Password

Login

# KEY FEATURES

- Task Creation & Management: Add, Edit, Delete tasks easily.
- Task Filtering & Sorting: Use Pipes to filter tasks by status, priority, or due date.
- Data Persistence: Saves tasks using Local Storage & API calls.
- User Authentication & Security: Uses Routing Guards. Responsive & User-Friendly UI: Built using Angular components.

## Add New Task

Title\*

Description

Priority

Add Task

# APPLICATION ARCHITECTURE

- Component-Based Structure
- Modular Routing System
- Service-Driven Data Flow
- State Management using Observables

## Task Manager

[Dashboard](#)[Add Task](#)[Login](#)

Priority: medium [Undo](#)

### Complete Project Proposal

Draft and submit the Flutter PlantPal proposal to the team by EOD.

Priority: high [Complete](#)

### Buy Groceries

Milk, eggs, spinach, and protein bars.

Priority: medium [Complete](#)

### Gym Session

45-min cardio + strength training.

Priority: low [Complete](#)

# COMPONENTS & PARENT-CHILD COMMUNICATION

- Components are the building blocks.
- Used Parent-Child Components for structured UI.
- `@Input` & `@Output` used for communication between components.

Example:

TaskListComponent (Parent)

TaskItemComponent (Child)

`@Input()` passes task details

`@Output()` emits events when tasks are modified



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### Call Mom

Wish her for her birthday!

Priority: high [Complete](#)

# DIRECTIVES IN ACTION

- Structural Directives (\*ngIf, \*ngFor): Used for dynamic UI updates.
- Attribute Directives ([ngClass], [ngStyle]): Used for styling tasks based on priority.

Example: `<div *ngIf="tasks.length > 0"> Task List </div><p [ngClass]="{'high-priority': task.priority === 'high' }"> {{ task.title }} </p>`

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Total Tasks

7

Completed

2

Pending

5

[Logout](#)[Add New Task](#)