

Angular To-Do App – Full Guide

1) Explanation (Conceptual)

This lab demonstrates Parent–Child communication in Angular using @Input, @Output, and EventEmitter. The Parent component owns the todos array, while child components are responsible for UI interactions only.

2) Component Responsibilities

Parent Component (Red):

- Holds todos array (single source of truth)
- Adds new todos
- Deletes todos

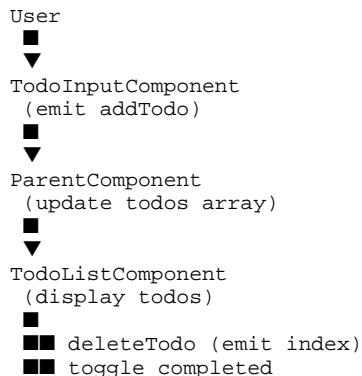
Todo Input Component (Yellow):

- Contains input field + Add button
- Emits new todo text to parent

Todo List Component (Yellow):

- Receives todos via @Input
- Emits delete event
- Toggles completed state

3) Parent / Child Flow Diagram



4) Assignment for Students

Required:

- Create To-Do App using Parent + 2 Child Components
- Add new task
- Delete task
- Use ngFor to display list

Bonus:

- Mark task as completed
- Apply line-through style

Rules:

- Parent owns the data
- Children communicate using @Output only

Note: Students must build the application step by step and should not use a ready-made solution. The goal is understanding component communication.