

## Angular Assignment: Building a Simple Task Manager

### Objective

Create a simple task manager application where users can add tasks and mark them as complete. This application will consist of two main components: a Task Manager (Parent) component and a Task (Child) component. The Task Manager will handle the task list, while each Task component will represent an individual task.

### Requirements

#### 1. Components:

- Task Manager (Parent Component):
  - Display a list of tasks.
  - Allow the user to add a new task via an input field.
  - Pass the task to the Task component using @Input.
  - Listen for the completion of a task using @Output.
- Task (Child Component):
  - Accept a task name as an input.
  - Have a button to mark the task as complete.
  - Emit an event back to the Task Manager when the task is completed.

#### 2. Functionality:

- The Task Manager should have an input field where users can enter a new task.
- A button to add the task to the list.
- Each task should be displayed with a completion button.
- When a task is marked as complete, it should be removed from the list.

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### Step-by-Step Implementation

#### 1. Create Components:

- Generate a Task Manager and Task component using Angular CLI:

```
ng generate component task-manager
```

```
ng generate component task
```

#### 2. Task Manager Component (task-manager.component.ts):

- Declare a task array to hold tasks.
- Implement methods to add tasks and handle task completion.
- Use @Input to pass task data and @Output to handle task completion events.

#### 3. Task Component (task.component.ts):

- Use @Input to receive the task name.
- Use @Output to emit an event when the task is completed.

#### 4. App Module:

- Ensure that both components are declared in your app.module.ts file.
- Import FormsModule to enable two-way data binding with ngModel.

#### 5. Run the Application:

- Use ng serve to start your application and test the functionality.

### Deliverables

- A functional Angular application that meets the above requirements.
- Properly structured code with comments explaining key parts of the implementation.

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- A brief write-up explaining how @Input and @Output were used in your application.

### **Additional Challenge**

- Style the components using CSS to improve the user interface.
- Add functionality to edit existing tasks before marking them as complete.