

# Event Management App Documentation

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## Introduction

The Event Management App is a simple web application built using Angular. It allows users to view a list of events, add new events, edit existing events, and delete events. The app utilizes Angular Material for UI components and communicates with a JSON Server to perform CRUD operations.

## Prerequisites

Ensure that you have the following installed before running the application:

- [Node.js](#)
- [Angular CLI](#)
- [JSON Server](#)

## Getting Started

1. Clone the repository:

bashCopy code

clone

cd

## 2. Install dependencies:

bashCopy code

## Project Structure

- `src/app/event.model.ts`: Defines the Event interface.
- `src/app/event.service.ts`: Implements the EventService for handling CRUD operations.
- `src/app/event/event.component.ts` and `src/app/event/event.component.html`: Implement the EventComponent for displaying and managing events.
- `db.json`: JSON file used as a mock database for the JSON Server.

## Angular Components

### Event Component

- **Purpose:** Display and manage events.
- **Methods:**
  - `getEvents()`: Retrieves the list of events.
  - `onSelect(event: Event)`: Selects a specific event for detailed view.
  - `addEvent()`: Adds a new event to the list.
  - `updateEvent()`: Updates the selected event.
  - `deleteEvent(id: number)`: Deletes the selected event.
- **UI Components:**
  - Event list with clickable items.
  - Detailed view of the selected event.
  - Forms for adding and updating events.

## Angular Services

### Event Service

- **Purpose:** Handles communication with the JSON Server for CRUD operations.
- **Methods:**
  - `getEvents()`: Retrieves the list of events.
  - `getEventById(id: number)`: Retrieves a specific event by ID.

- `addEvent(event: Event)`: Adds a new event.
- `updateEvent(event: Event)`: Updates an existing event.
- `deleteEvent(id: number)`: Deletes an event.

## JSON Server

- **Purpose:** Provides a mock API for the application.
- **Data Source:** `db.json`
- **Endpoint:** `http://localhost:3000/events`

## Usage

1. Start the JSON Server:

bashCopy code

2. Start the Angular development server:

bashCopy code

3. Open your browser and visit `http://localhost:4200` to interact with the Event Management App.

## Conclusion

The Event Management App serves as a foundation for creating more complex event management systems. It demonstrates the integration of Angular with a mock API provided by JSON Server, showcasing the implementation of CRUD operations.

## Resources

- [Angular Documentation](#)
- [Angular Material Documentation](#)
- [JSON Server Documentation](#)