Campus Event Tracker – Software Architecture Design

Project Name: Campus Event Tracker
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1. Chosen Architecture Style

Component-Based Architecture

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2. Explanation

The Campus Event Tracker uses a **component-based architecture**, where the application is divided into reusable, self-contained components. In Angular, each component encapsulates its **template (HTML), logic (TypeScript), and styles (CSS/SCSS)**. Components communicate through data binding and event interactions, allowing the UI to update dynamically without reloading the page.

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3. Justification

This architecture is ideal for a small application like the Campus Event Tracker because it promotes **modularity, reusability, and maintainability**. Even with a single main component, the component-based approach allows for easy future expansion, such as adding new features (e.g., event categories or notifications) without affecting existing functionality.