

How Angular Works

October 24, 2023



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Angular is a popular open-source web application framework developed by Google. It is used for building dynamic and interactive web applications. Angular follows the Model-View-Controller (MVC) architectural pattern and is written in TypeScript, a superset of JavaScript. Here's how Angular works:

1. **Components:** Angular applications are organized into components. Each component represents a part of the user interface, such as a header, sidebar, or a form. Components are the building blocks of an Angular application and encapsulate both the HTML for the view and the logic for controlling that view.
2. **Templates:** Templates in Angular are written in HTML with additional Angular-specific syntax. These templates define the structure of the user interface and include placeholders for data that will be dynamically inserted.
3. **Data Binding:** Angular provides two-way data binding, which means that changes in the model (data) are automatically reflected in the view (UI), and vice versa. This feature simplifies the synchronization of data between components and templates.
4. **Directives:** Directives are special HTML attributes or elements in Angular that modify the behavior or appearance of HTML elements. For example, ``ngIf`` is a directive that controls the visibility of an element based on a condition, and ``ngFor`` is used for looping through lists of data.
5. **Services:** Services are responsible for encapsulating and managing business logic, data retrieval, and other application functionality. Services can be injected into components, making them accessible throughout the application.
6. **Dependency Injection:** Angular uses a dependency injection system to manage the creation

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