

This cheat sheet is for the course [Learn C# Full Stack Development with Angular and ASP.NET](#) by Jannick Leismann.

ANGULAR



A popular framework for creating single-page web applications (SPAs). Angular, a web application development framework created and maintained by **Google**, offers an extensive toolkit and best practices for creating online applications that are scalable, durable, and manageable.

Key Features of Angular

Component-Based Architecture

Angular applications are built using a collection of components. Each component encapsulates its own logic, template, and styles, promoting reusability and maintainability.

TypeScript

Angular is built with TypeScript, a statically-typed superset of JavaScript, which enhances development with strong typing, interfaces, and advanced features.

Two-Way Data Binding

Synchronizes data between the model and the view, allowing for automatic updates in the UI when the model changes and vice versa.

Dependency Injection

Angular has a powerful dependency injection system that facilitates the development of modular, testable, and maintainable code.

Directives

Custom HTML attributes that extend the functionality of HTML elements. Examples include structural directives (`*ngIf`, `*ngFor`) and attribute directives (`ngClass`, `ngStyle`).

Services and DI (Dependency Injection)

Services are used to share data and logic across multiple components. Angular's DI system makes it easy to inject services into components and other services.

Routing

Angular provides a robust routing module that allows developers to define routes and navigate between different views or components in a single-page application.

Reactive Programming with RxJS

Angular leverages RxJS (Reactive Extensions for JavaScript) for reactive programming, enabling the development of asynchronous, event-driven applications.

Forms

Angular offers two ways to handle forms: Template-driven forms and Reactive forms. Both approaches provide robust form validation and data binding.

CLI (Command Line Interface)

Angular CLI is a powerful tool that simplifies the process of setting up, developing, testing, and deploying Angular applications.