Lifecycle



Called after a bound input property changes Called once the component is initialized Called during every change detection run Called after content (ng-content) has been projected into view Called every time the projected content has been checked Called after the component's view (and child views) has been initialized Called every time the view (and child views) have been checked Called once the component is about to be destroyed

Understanding Directives

Attribute vs Structural

Attribute Directives

Look like a normal HTML Attribute (possibly with databinding or event binding)

Only affect/ change the element they are added to

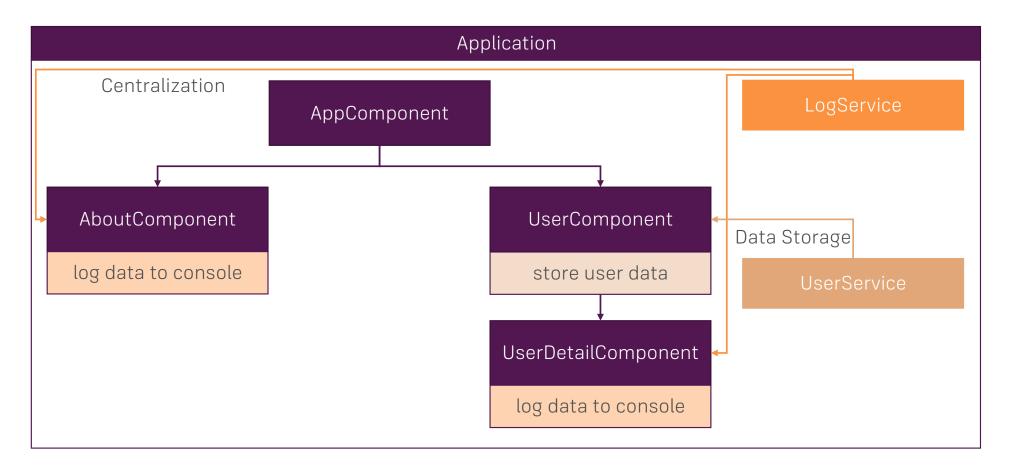
Structural Directives

Look like a normal HTML Attribute but have a leading * (for desugaring)

Affect a whole area in the DOM (elements get added/ removed)

Services & Dependency Injection

What are Services?



Hierarchical Injector









Two Approaches

Template-Driven

Angular infers the Form Object from the DOM

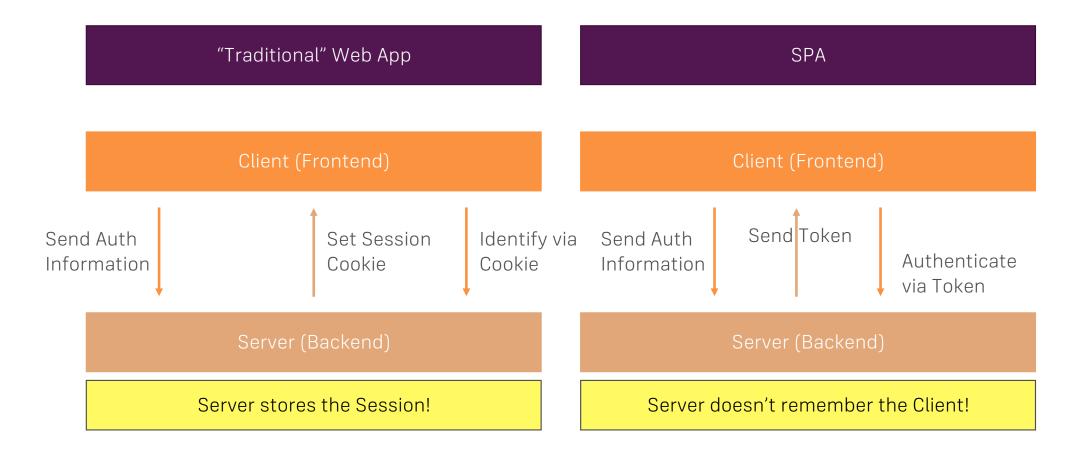
Reactive

Form is created programmatically and synchronized with the DOM



Authentication

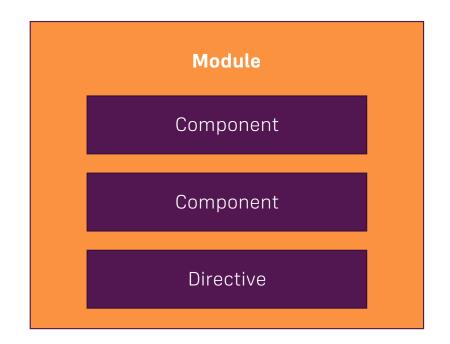
How does Authentication work?



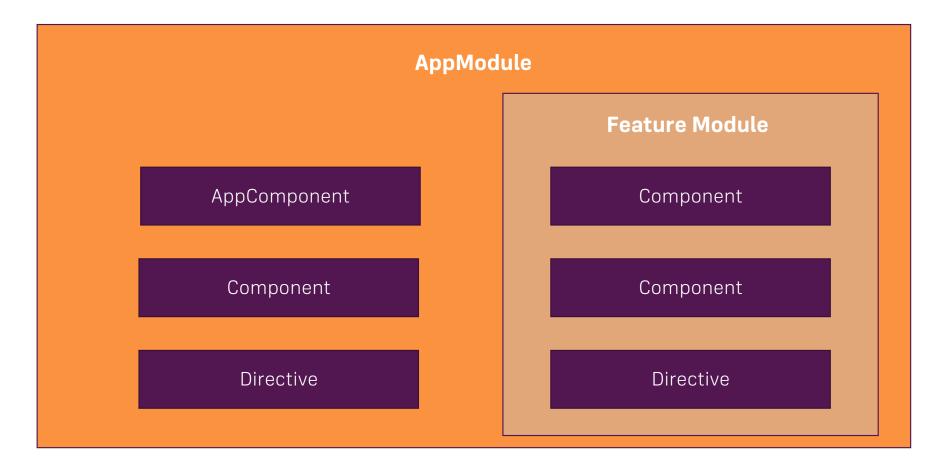
Animations

Using Modules & Optimizing an Angular App

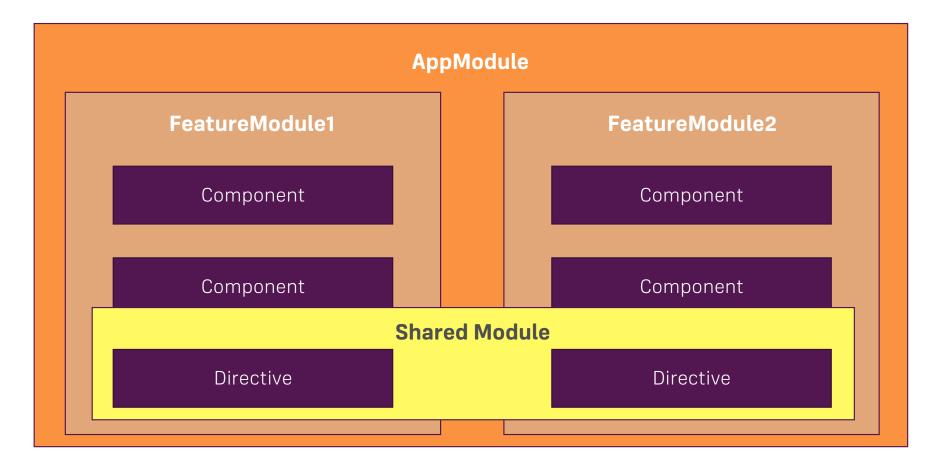
The Idea behind App Modules



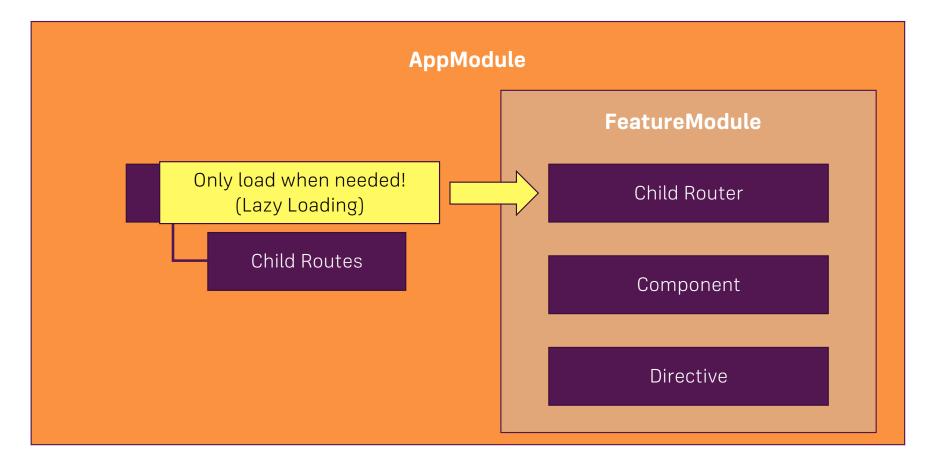
Feature Modules



Shared Modules



Modules and Routing (Lazy Loading)

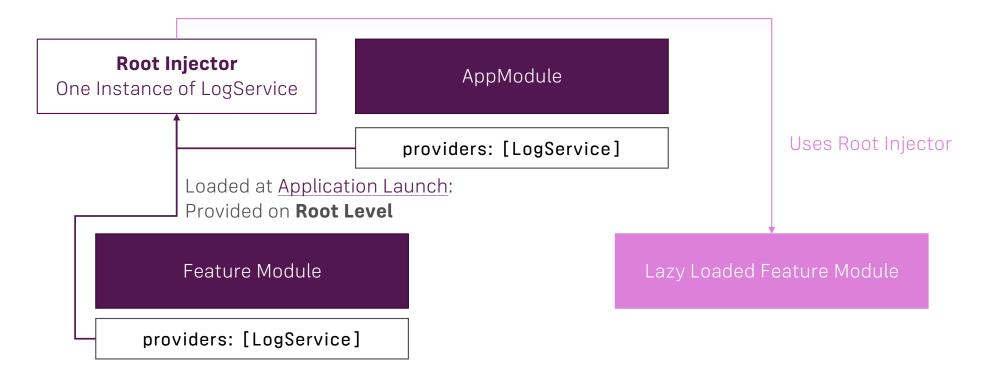


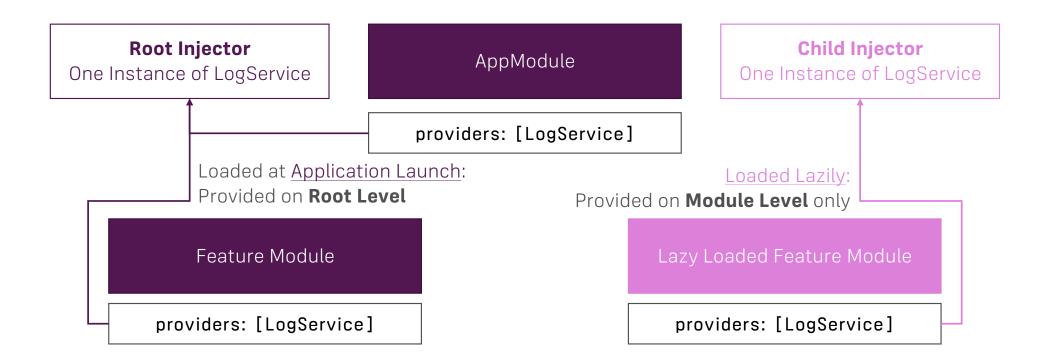
Why Modules?

Don't bloat the AppModule

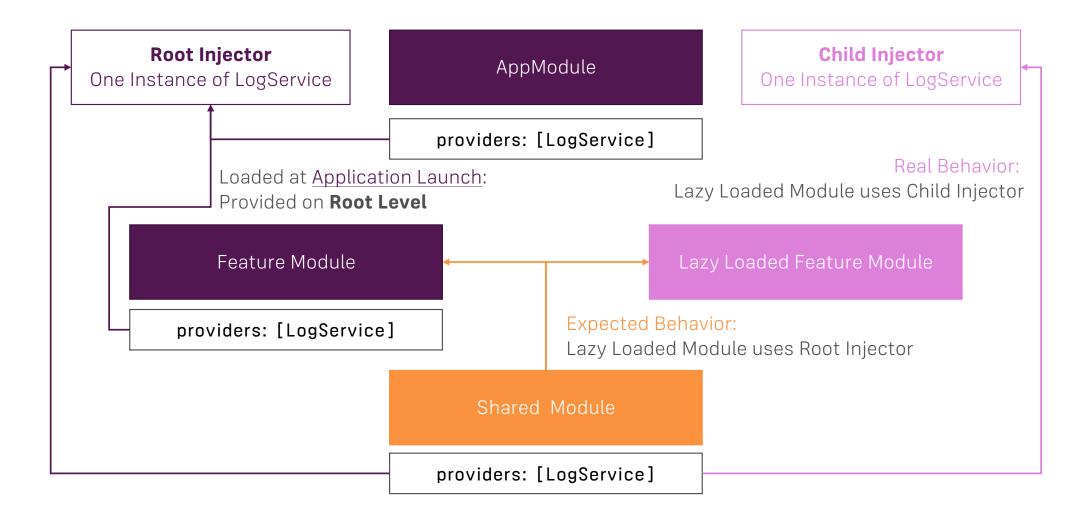
Be clear about Who's responsible for What

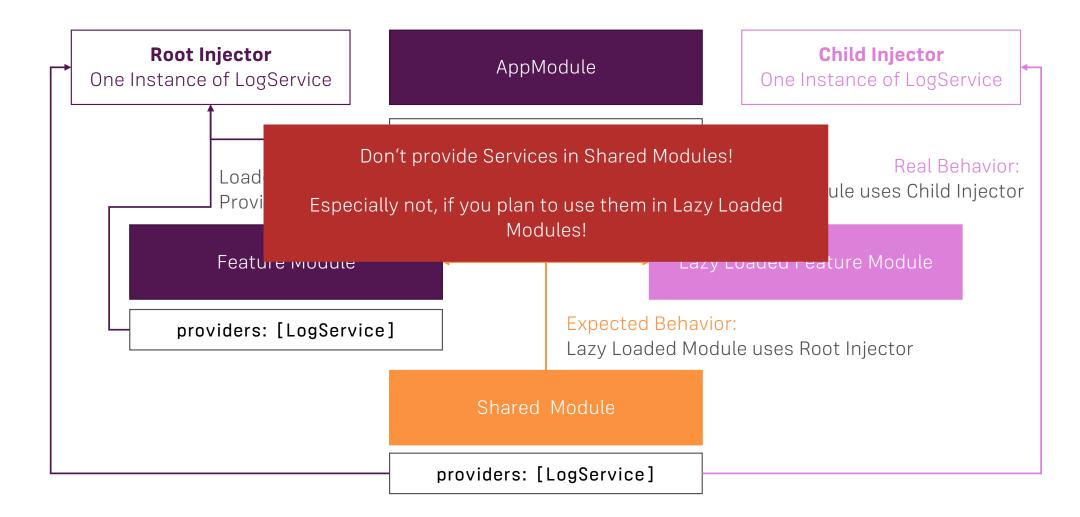
Allows Lazy Loading of Modules



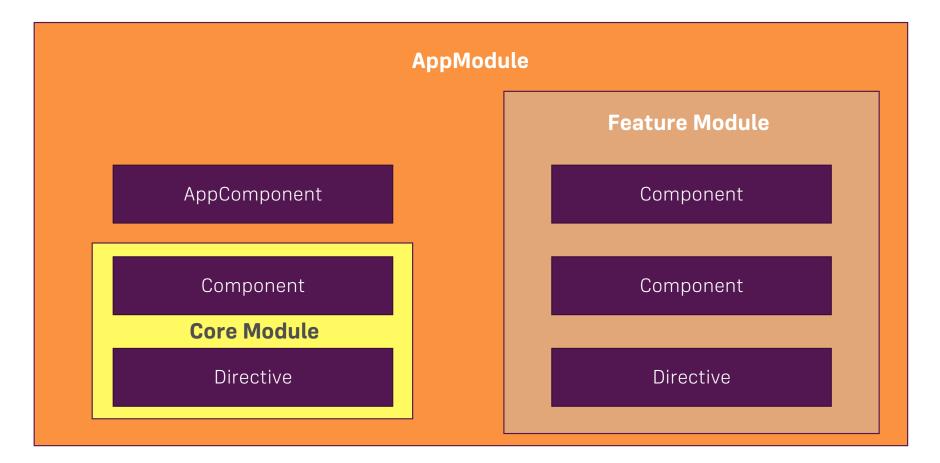


Enforce "Module Scope" by providing in a Component instead of a Module!

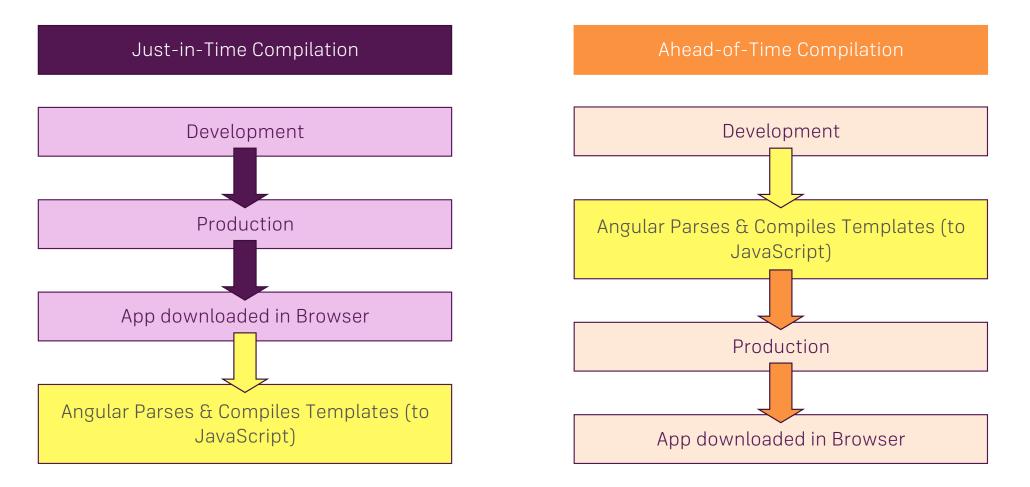




Core Module



Ahead-of-Time Compilation



Advantages of AoT Compilation

Faster Startup sind Parsing and Compilation doesn't happen in Browser

Templates get checked during Development

Smaller File Size as unused Features can be stripped out and the Compiler itself isn't shipped





Deployment Steps & Things to Keep in Mind

Build your App for Production

Consider AoT Compilation

Set the correct <base> element

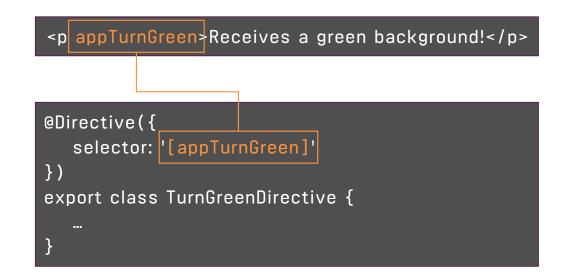
For example.com/my-app you should have <base href="/my-app/">

Make sure your Server ALWAYS returns index.html

Routes are registered in Angular App, so the server won't know your routes! Return index.html in case of 404 errors!

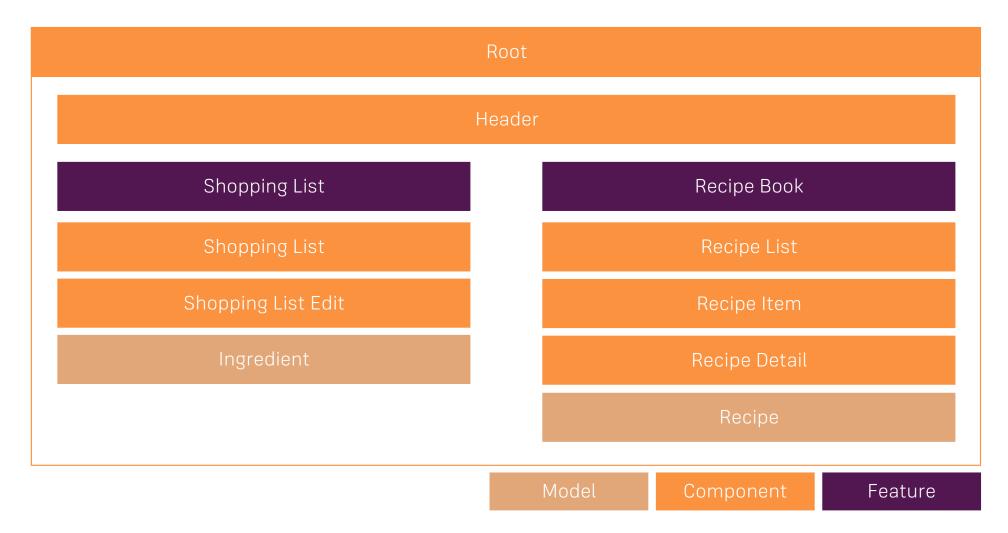
What are Directives?

Directives are Instructions in the DOM!

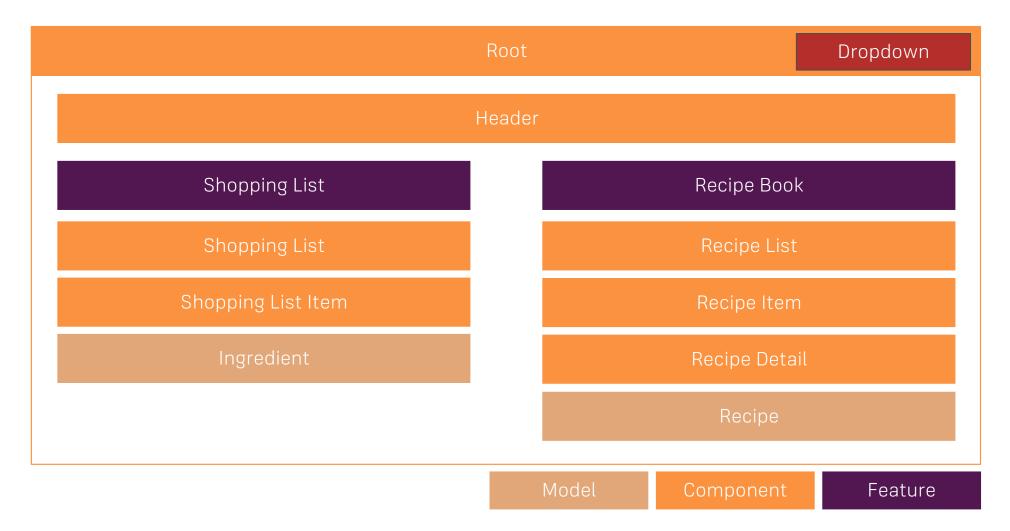


Course Project

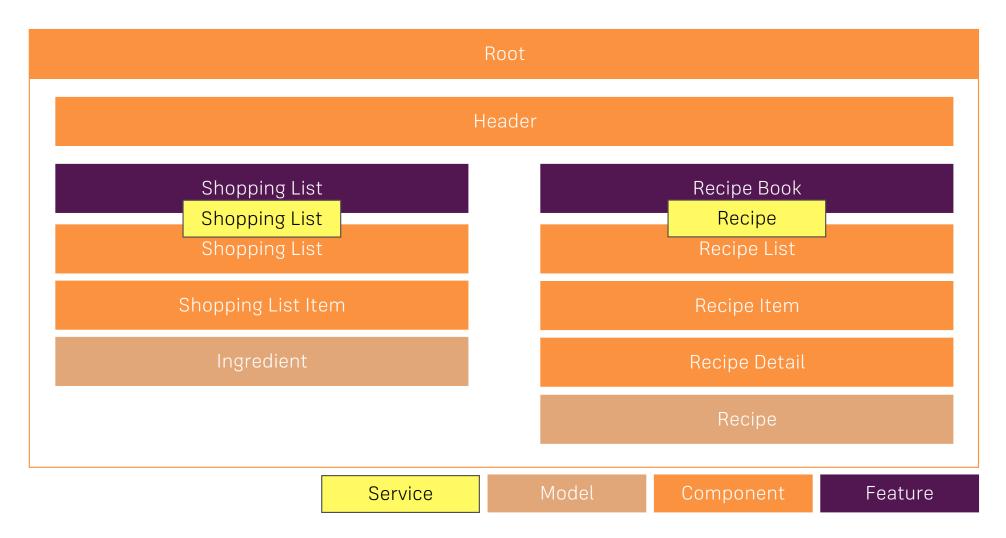
Planning the App



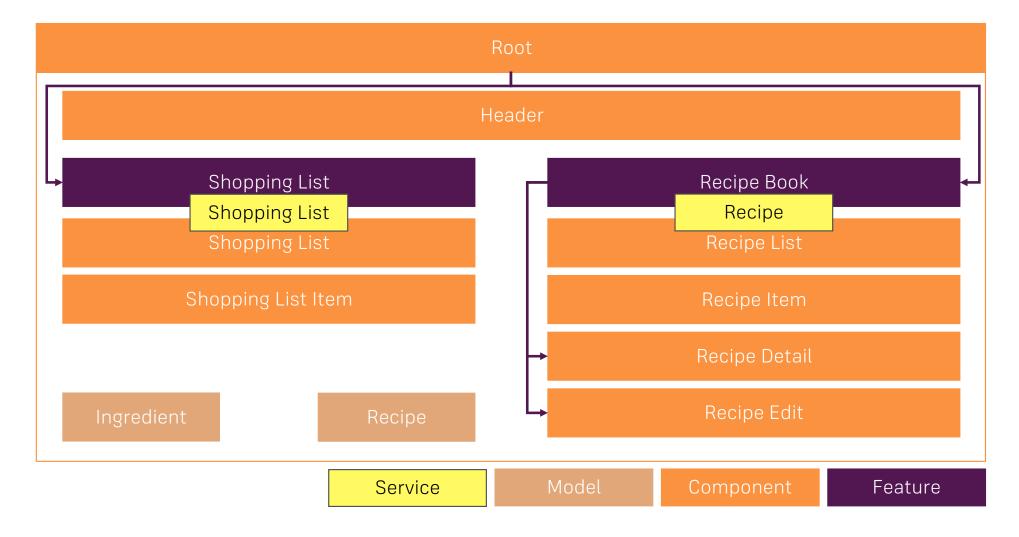
Adding Directives



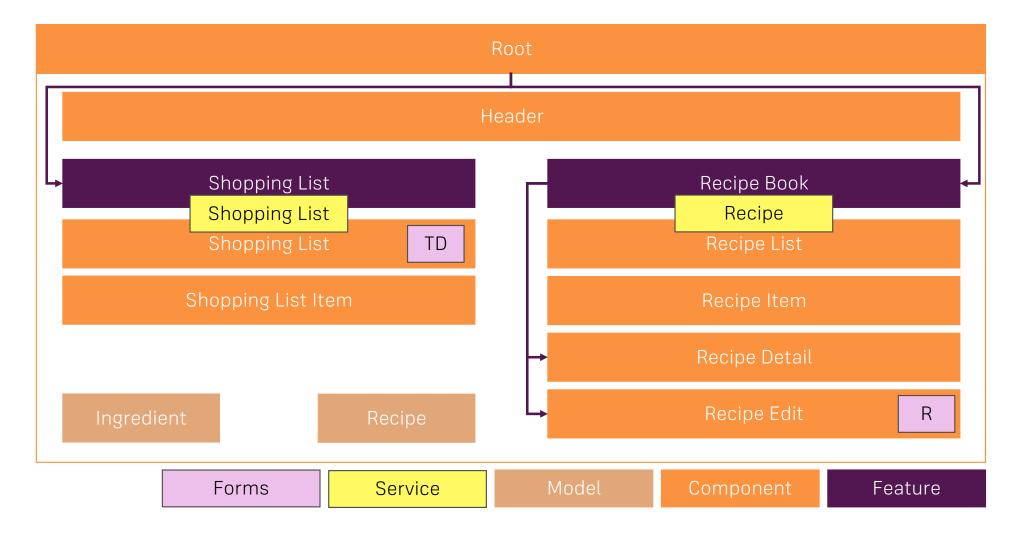
Adding Services



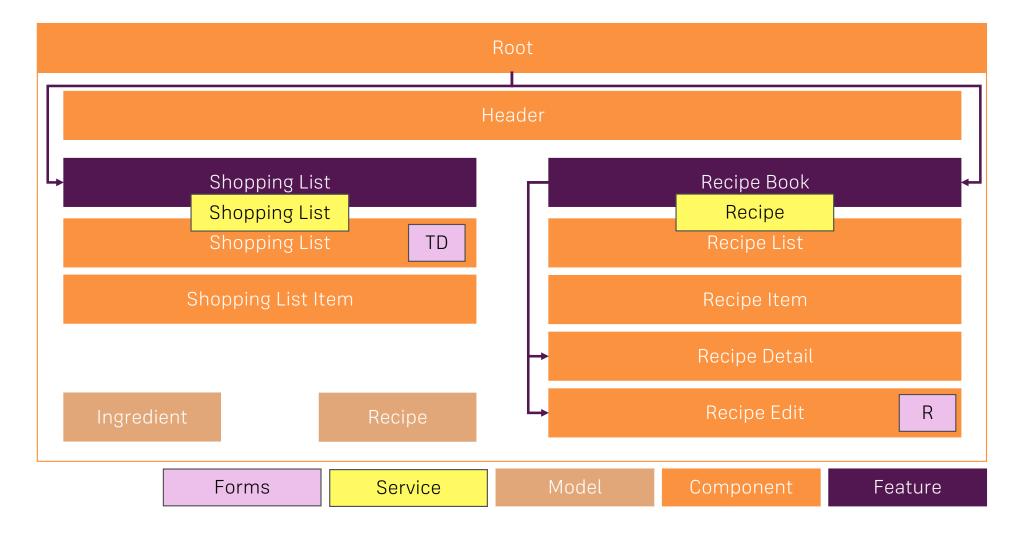
Adding Routing



Adding Forms



Adding Modules



What changed in the Course Update?

Angular 4 is NOT a re-write of Angular 2!

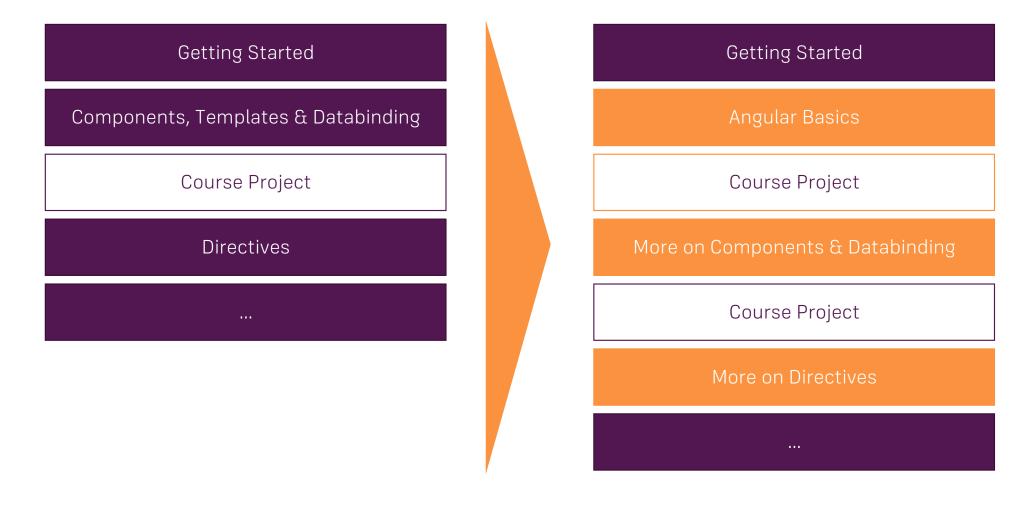
Angular 4 is only an update to Angular 2 (now only "Angular")

Angular Team switched to Semantic Versioning and renamed Angular 2 to Angular (Angular 1 will be AngularJS)

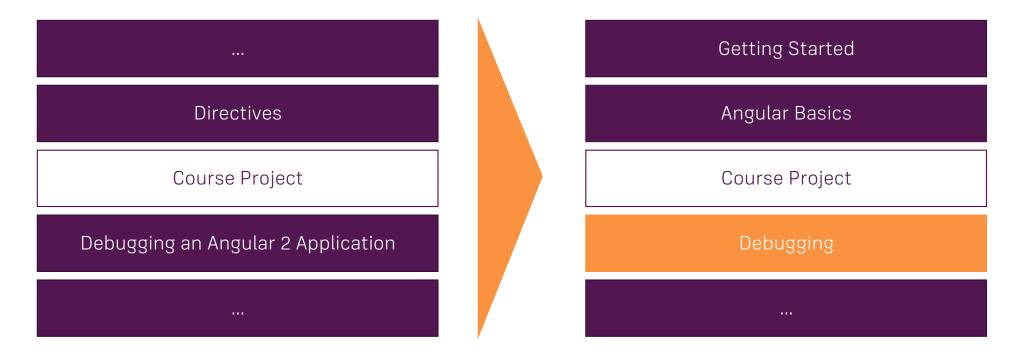
Semantic Versioning

MAJOR.MINOR.BUGFIX e.g. 2.4.3 e.g. 4.0.1

Basics First



Debug Eearlier



Observables

Routing	Routing
Course Project	Understanding Observables
	Course Project

Improved Content

Tried to sharpen Explanations in all Modules

Added a Basics Section to learn the Core Features Faster

More Details in Routing, Forms and Optimizations Module

Changed Authentication Module to now use the **Recipe Book**

The **Deployment** Section now uses the **Recipe Book** as an Example

How to Continue

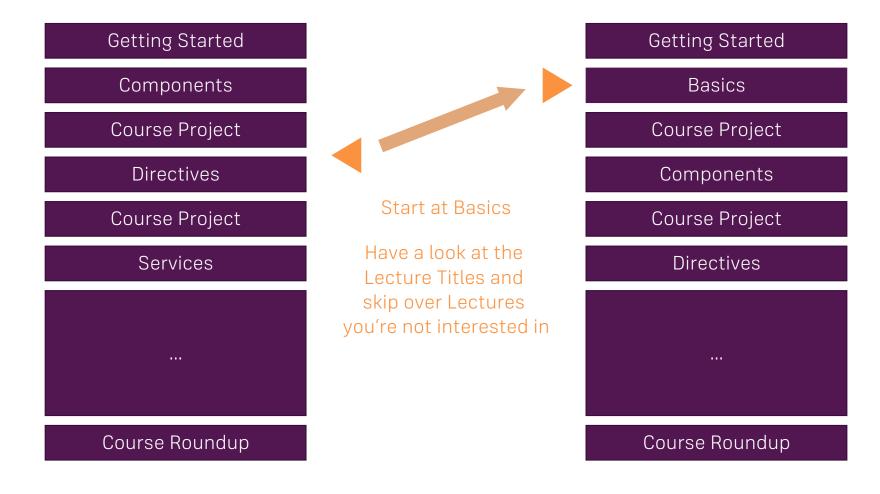
"Old Content" is kept around until end of April (I will inform you before it's removed!) Download "old" lectures!

Keep in mind: Angular 2 Syntax = Angular 4 Syntax

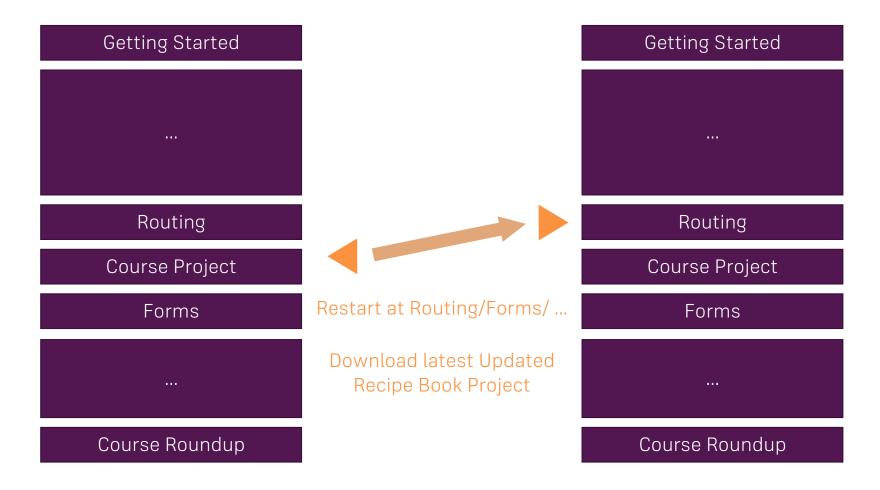
The "old Content" is still correct!

You don't have to go through the updated Content at all!

How to Continue (if you want to use the new Content)



How to Continue (if you want to use the new Content)



How to Continue (if you want to use the new Content)

Getting Started		Getting Started
	Go through the updated Curriculum and have a look at the Sections & Lectures you found most important	
Routing		Routing
Course Project		Course Project
Forms		Forms
Course Roundup		Course Roundup