ANGULAR MODULARITY

(NgModules)

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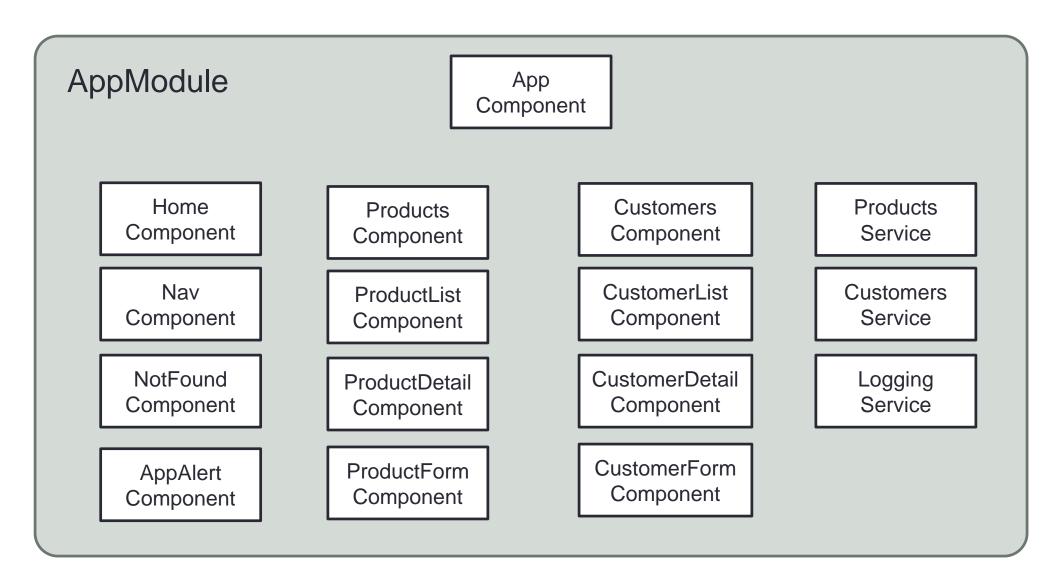
Agenda

- Modules
- A Typical Angular App
- Angular Modules
- @NgModule Decorator
- Routing Modules
- Feature Modules
- Sharing Components across Modules
- Organizing Core Components of an App
- Q & A

Modules

- Great way to organize an app
- Allow an app to extend with capabilities from external libraries
- Increase performance of the app
- Decrease file size
- Structure code in a better way
- Make the app code more maintainable

A Typical Angular App



Angular Modules

- By default, all Angular apps contain one module AppModule
- An Angular module
 - consolidates components, directives, and pipes into cohesive blocks of functionality
 - bundles related functionalities that can be imported and reused
 - can be eagerly loaded or lazy loaded asynchronously
 - is a simple TypeScript class that is decorated using @NgModule decorator

@NgModule Decorator

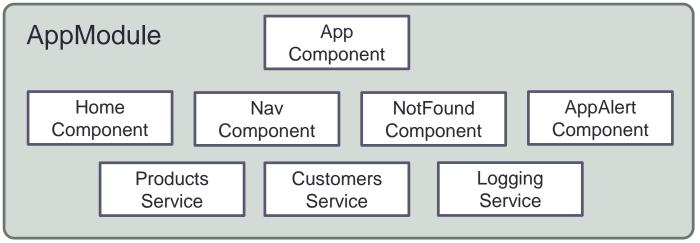
- Specifies metadata for an Angular module using a plain JS object
- Properties
 - declarations: []
 - specifies a list of components, directives, and pipes that belong to this module
 - imports: []
 - specifies a list of modules whose exported components, directives, pipes should be available to templates in this module
 - providers: []
 - specifies services that the components, directives and pipes can use within the app
 - bootstrap: []
 - defines the components that should be bootstrapped when this module is bootstrapped
 - defines the root component of the app
 - exports: []
 - makes some of the components, directives, and pipes public so that other module's component templates can use them

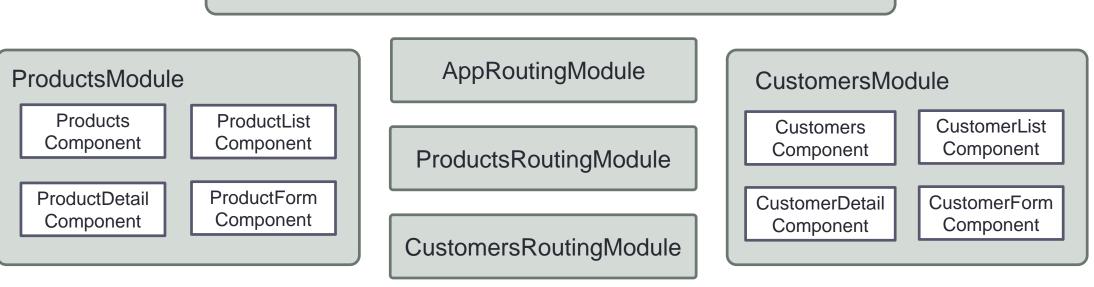
Routing Modules

AppModule App Component Home **Products** Customers **Products** Component Component Component Service ProductList Nav CustomerList Customers Component Component Component Service NotFound ProductDetail CustomerDetail Logging Component Component Component Service ProductForm CustomerForm **AppAlert** Component Component Component

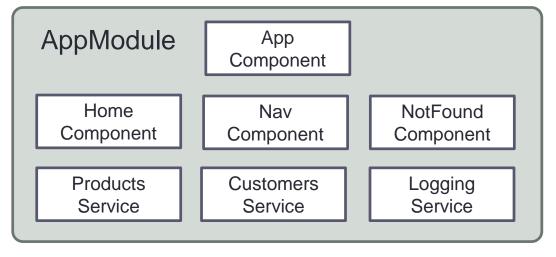
AppRoutingModule

Feature Modules





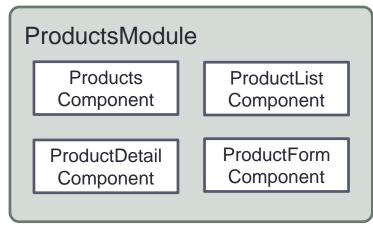
Sharing Components Across Modules

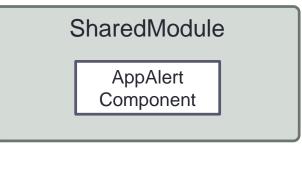


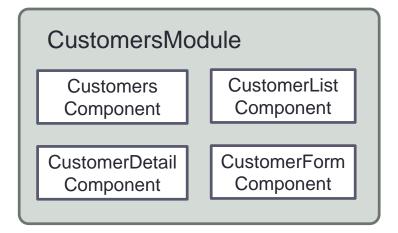
AppRoutingModule

ProductsRoutingModule

CustomersRoutingModule







Organizing Core Components of an App

AppModule

App Component CoreModule

Home Component

Products

Service

Nav Component

Customers Service NotFound

Component

Logging Service **AppRoutingModule**

ProductsRoutingModule

CustomersRoutingModule

ProductsModule

Products Component ProductList Component

ProductDetail Component

ProductForm Component

SharedModule

AppAlert Component

CustomersModule

Customers Component CustomerList Component

CustomerDetail Component CustomerForm Component

Q & A

Thank you!