ANGULAR WORKSHOP

COMPONENT INTERACTION
SERVICES & DEPENDENCY INJECTION
VIEW ENCAPSULATION

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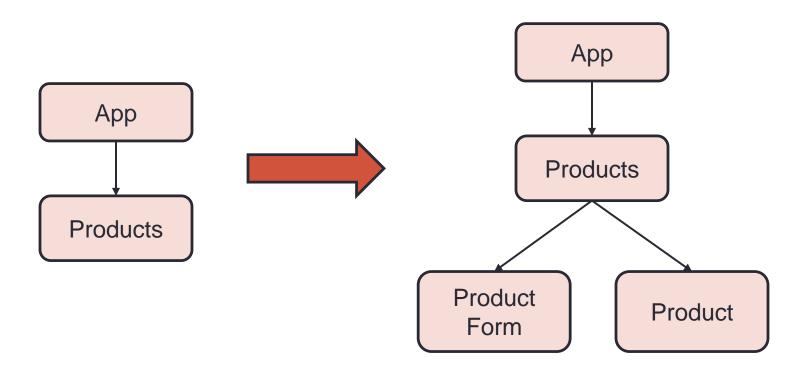
Friday, June 30, 2017

Agenda

- Component Interaction
 - Parent to Child Interaction
 - Child to Parent Interaction
- Services
 - Need for a Service
 - What is a Service?
 - Understanding DI and Angular Injector
 - Creating and Using a Service
 - Cross Component Communication using a Service
- View Encapsulation
- Q & A

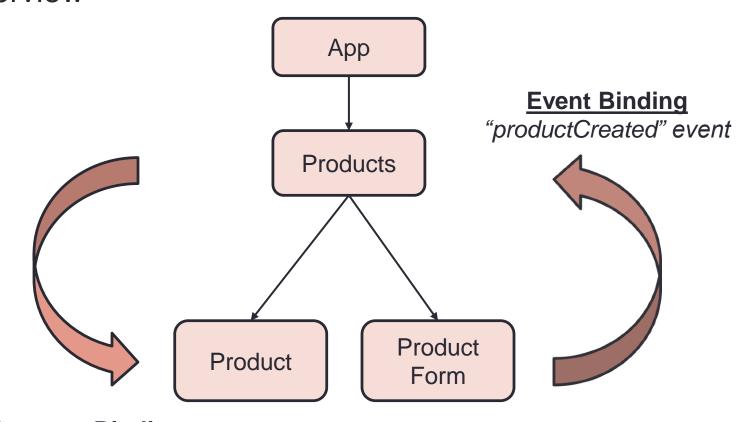
Component Interaction

Splitting app into multiple components



Component Interaction

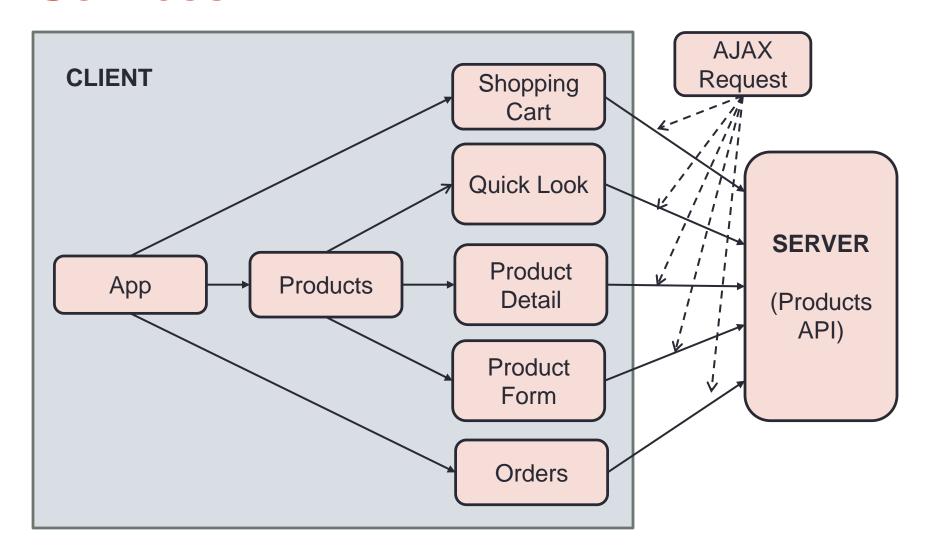
Overview

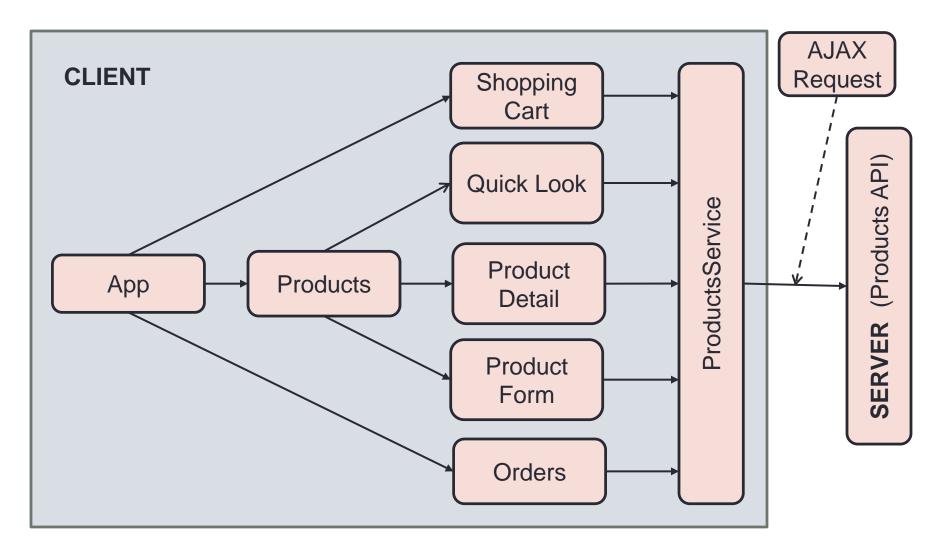


Property Binding "product" property

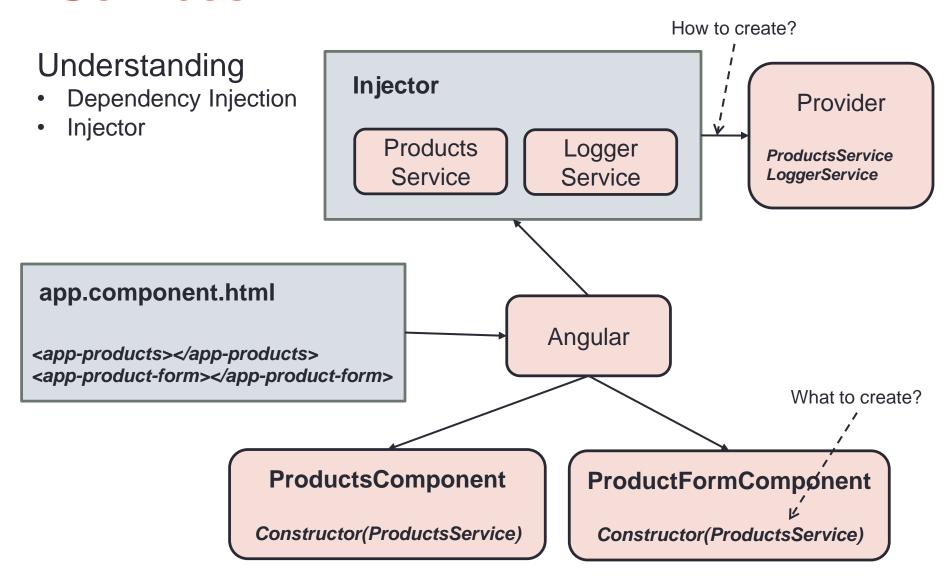
Component Interaction

- Binding to Custom Properties
 - Pass data from parent to child component
 - @Input() decorator
- Binding to Custom Events
 - Emitting event from child component
 - @Output() decorator
 - EventEmitter<T>
 - eventEmitterObj.emit()





- A class with a narrow, well-defined purpose
 - For e.g.
 - Logging service
 - Data service
 - Tax calculator
 - App configuration
 - Message bus
- Acts as a central repository/business unit
- Creating a service
- Injecting a service into a component
 - Constructor
 - Providers
 - Component level
 - Module level
- Injecting a service into another service
 - @Injectable()



Controlling the creation of instances of a Service

AppModule

Same instance of Service is available *Application* wide

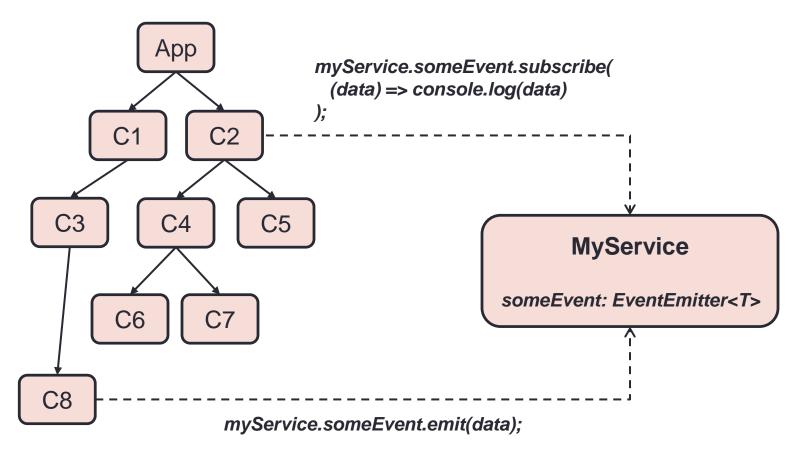
AppComponent

Same instance of Service is available for *all Components* (but not for other services)

Any other Component

Same instance of Service is available for *the Component* and *all its child Components*

- Cross component communication using a service
 - In the service, expose an event object of type EventEmitter
 - From the source component, invoke *emit()* method, pass necessary data as an argument
 - From the destination component subscribe to the service's event object using subscribe()
 method, pass callback function as an argument



View Encapsulation

- Understanding View Encapsulation
- @Component()
 - encapsulation: ViewEncapsulation.None
- ViewEncapsulation
 - Emulated default
 - Native
 - None

Q & A

Thank you!