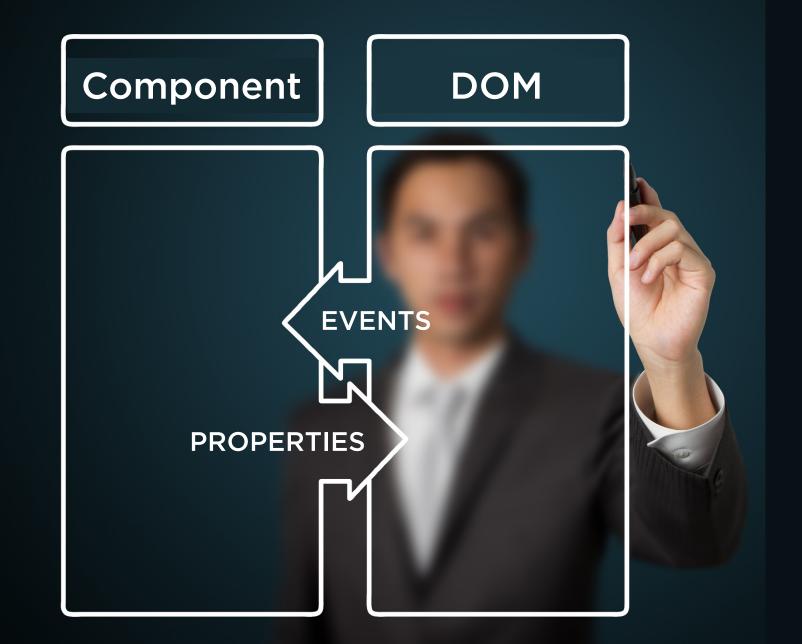
Data Binding & Pipes



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Module Overview



Property Binding

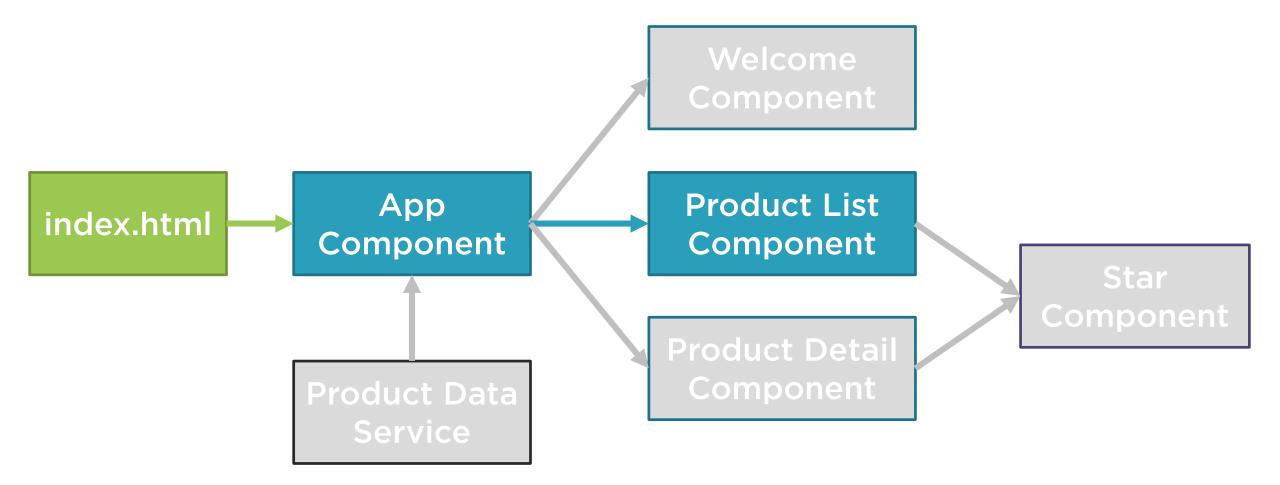
Handling Events with Event Binding

Handling Input with Two-way Binding

Transforming Data with Pipes



Application Architecture





Property Binding



Event Binding

```
Template
                                         Class
<h1>{{pageTitle}}</h1>
<img [src]='product.imageUrl'>
<button (click)='toggleImage()'>
                         export class ListComponent {
https://developer.mozilla.org/en-US/docs/Web/Events
                        Template
    Target Event
                        Statement
```

Template

Class

```
<input [(ngModel)]='listFilter'>
```

```
export class ListComponent {
  listFilter: string = 'cart';
}
```

Template

Class

```
<input [(ngModel)]='listFilter'>
```

```
export class ListComponent {
  listFilter: string = 'cart';
}
```

Template

Class

```
<input [(ngModel)]='listFilter'>
```

```
export class ListComponent {
  listFilter: string = 'cart';
}
```

Template

Class

L()]
Banana in a Box

Transforming Data with Pipes

Transform bound properties before display

Built-in pipes

- date
- number, decimal, percent, currency
- json, slice
- etc

Custom pipes



Pipe Examples

```
{{ product.productCode | lowercase }}

<img [src]='product.imageUrl'
       [title]='product.productName | uppercase'>

{{ product.price | currency | lowercase }}

{{ product.price | currency:'USD':true:'1.2-2' }}
```



Data Binding

DOM

```
▼<pm-app>
 ▼ <div>
    <h1>Acme Product Management</h1>
   ▼<pm-products>
    ▼ <div class="panel panel-primary">
       <div class="panel-heading">
              Product List
           </div>
      ▼ <div class="panel-body">
         ::before
        ▶ <div class="row">...</div>
        ▶ <div class="row">...</div>
       ▼ <div class="table-responsive">
           <!--template bindings={}-->
         ▼
           <thead>...</thead>
           ...
           </div>
         ::after
       </div>
      </div>
    </div>
 </pm-app>
```

product-list.component.ts

```
@Component({
    selector: 'pm-products',
    templateURL: 'product-list.component.html'
})
export class ProductListComponent {
    pageTitle: string = 'Product List';
    listFilter: string = 'cart';
    products: any[] = [...];
    toggleImage(): void {...}
}
```

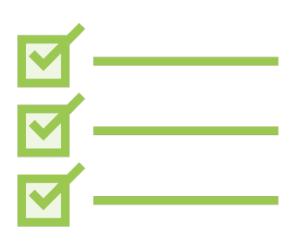


Data Binding

Interpolation: {{pageTitle}} Property Binding: DOM Component Event Binding: <button (click)='toggleImage()'> Two-Way Binding: <input [(ngModel)]='listFilter'/>



Checklist: Pipes



Pipe character

Pipe name

Pipe parameters

- Separated with colons

Example

```
- {{ product.price |
   currency:'USD':true:'1.2-2' }}
```



Summary



Property Binding
Handling Events with Event Binding
Handling Input with Two-way Binding
Transforming Data with Pipes



Application Architecture

