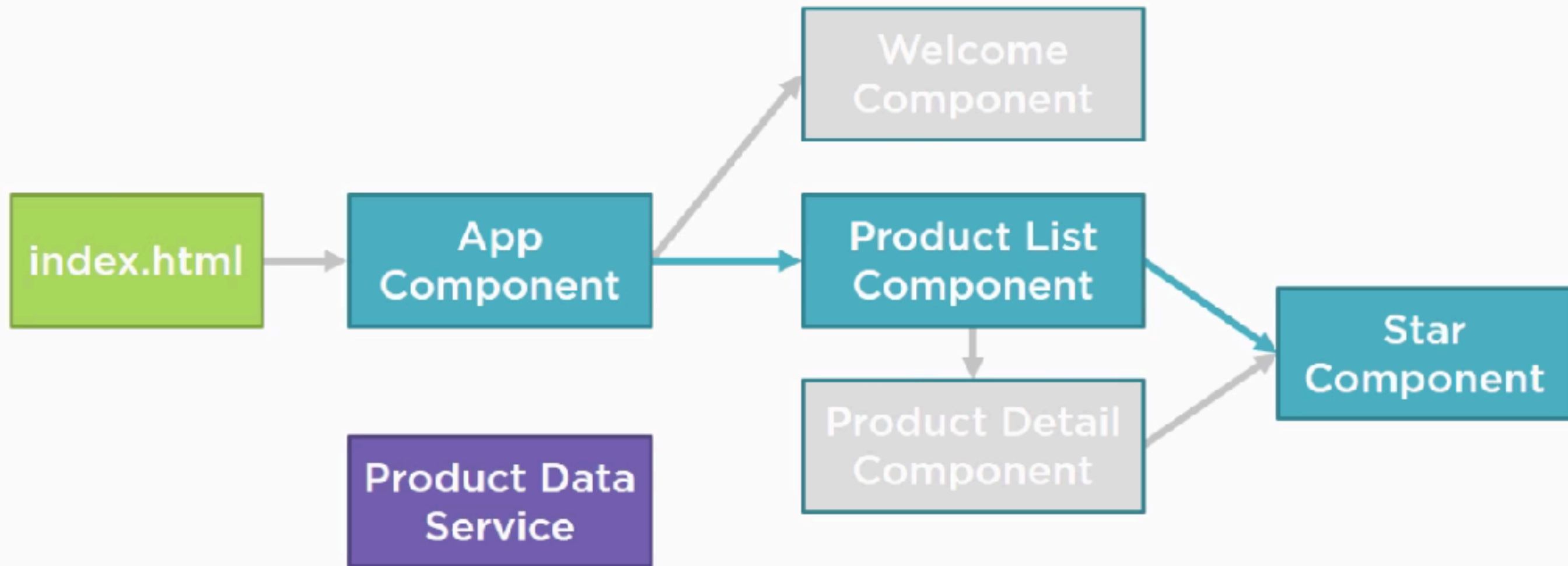


Application Architecture



Product List View

Product List

Filter by:

Show Image

Product

Code

Available

Price

5 Star Rating

Leaf Rake

GDN-0011

Mar 19, 2016

\$19.95

★★★★

Garden Cart

GDN-0023

Mar 18, 2016

\$32.99

★★★★

Hammer

TBX-0048

May 21, 2016

\$8.99

★★★★★

Saw

TBX-0022

May 15, 2016

\$11.55

★★★★

Video Game Controller

GMG-0042

Oct 15, 2015

\$35.95

★★★★★

Product List View

Product List

Filter by:

am x

Filtered by: am

Show Image

Product

Code

Available

Price

5 Star Rating

Hammer

TBX-0048

May 21, 2016

\$8.99

★★★★★

Video Game Controller

GMG-0042

Oct 15, 2015

\$35.95

★★★★★

Product List View

Product List

Filter by:

Filtered by: am

Hide Image

Product

Code

Available

Price

5 Star Rating



Hammer

TBX-0048

May 21, 2016

\$8.99

★★★★★



Video Game Controller

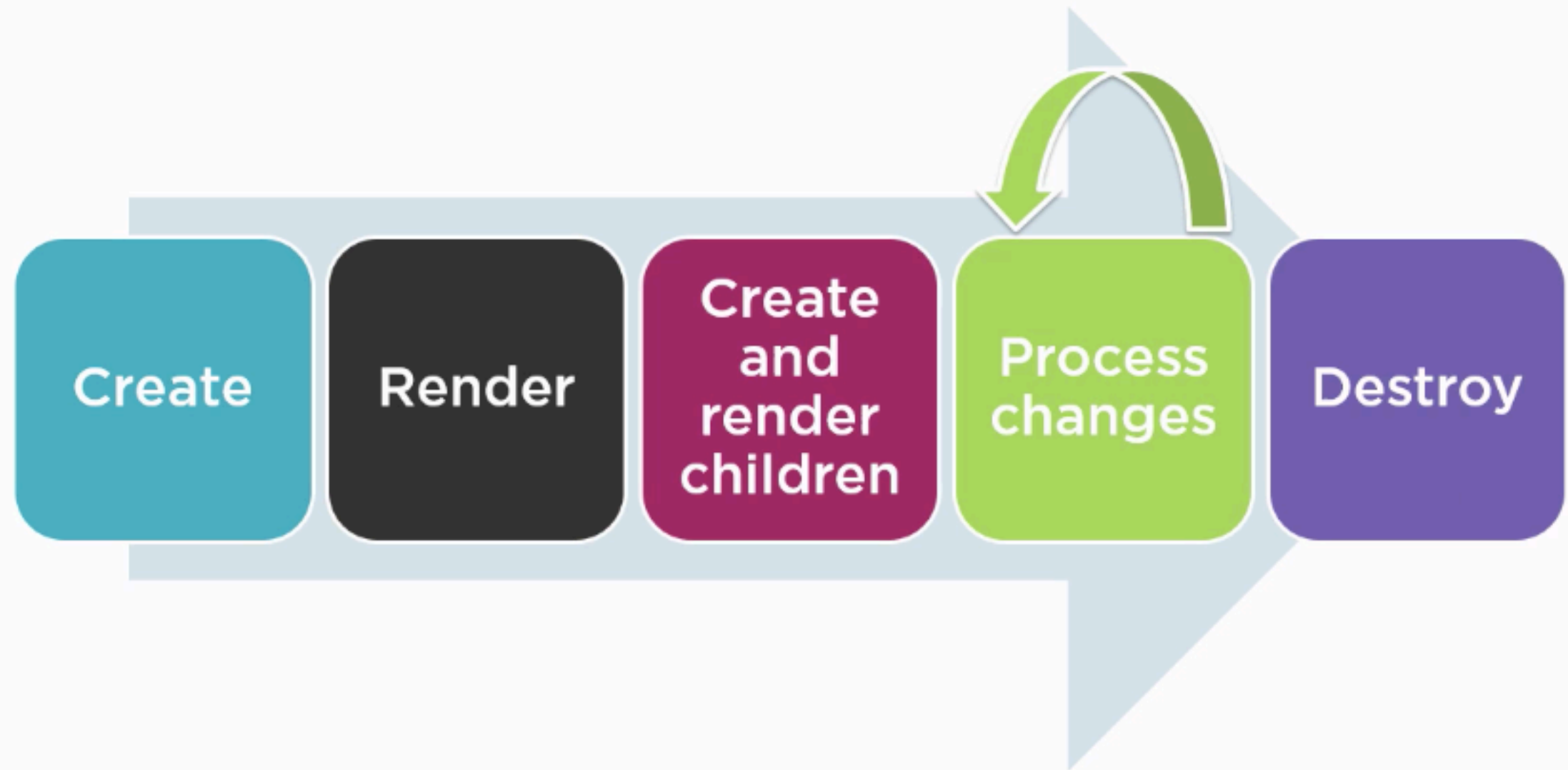
GMG-0042

Oct 15, 2015

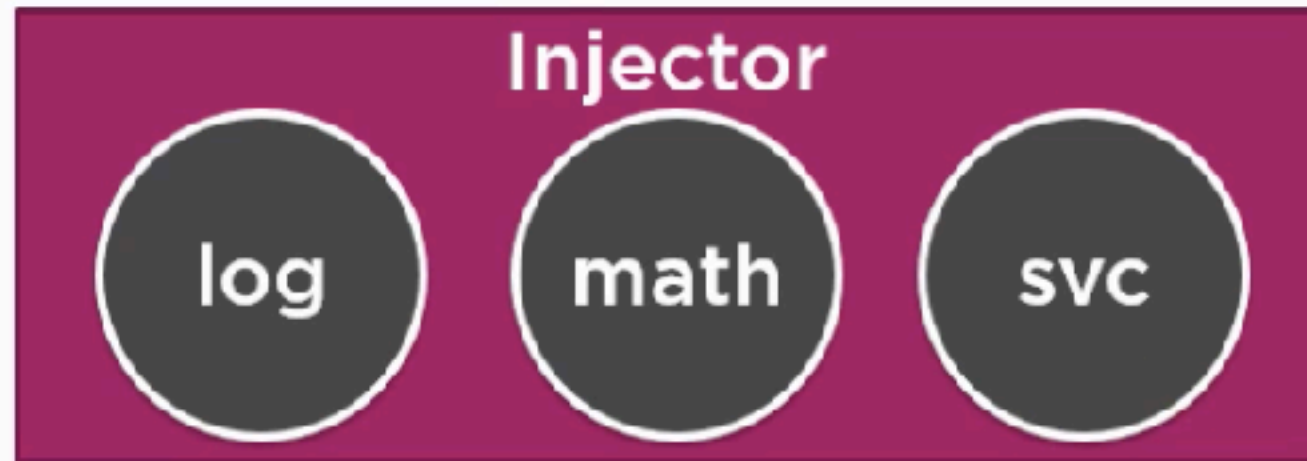
\$35.95

★★★★★

Component Lifecycle



How Does It Work?



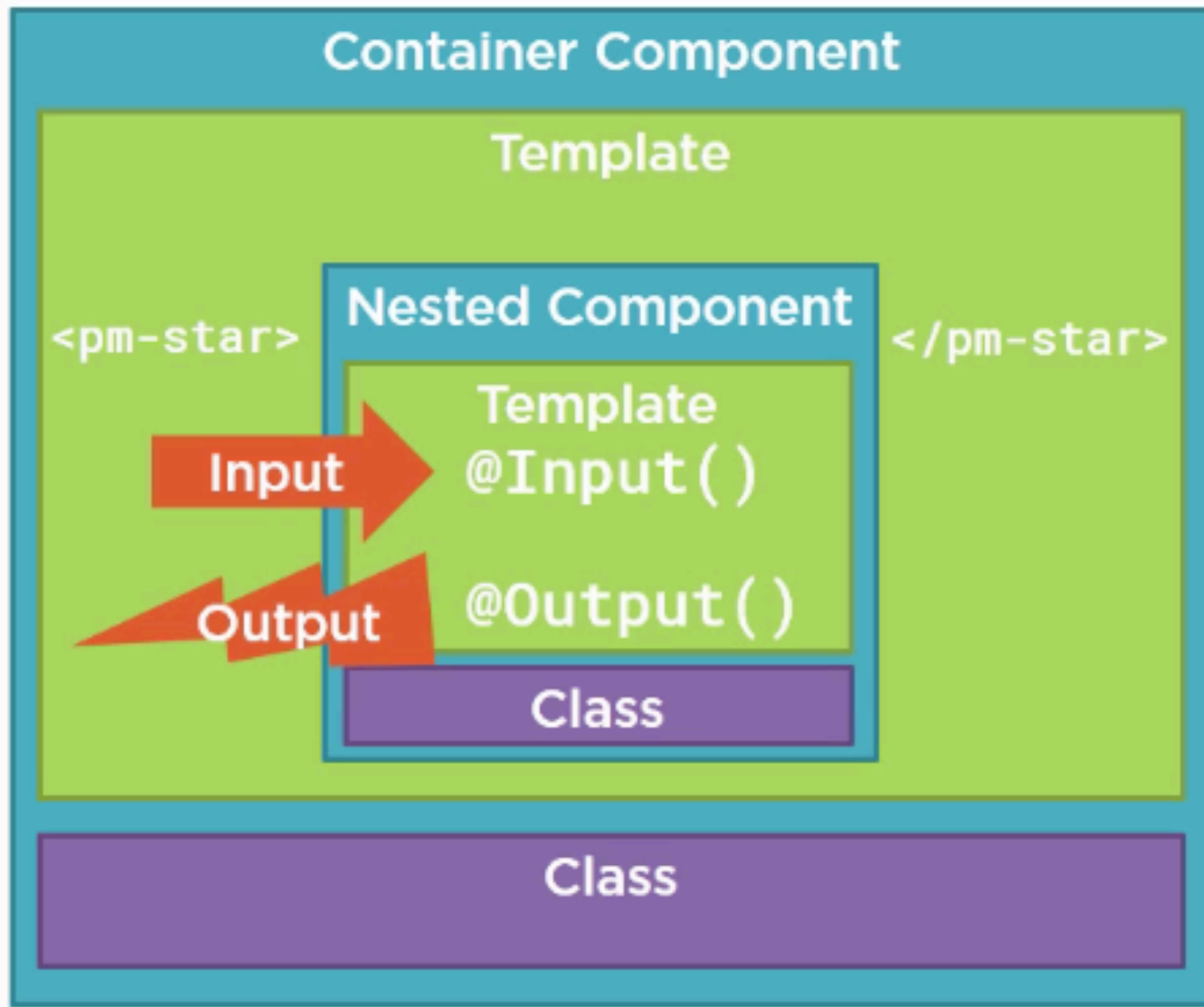
Service

```
export class myService {}
```

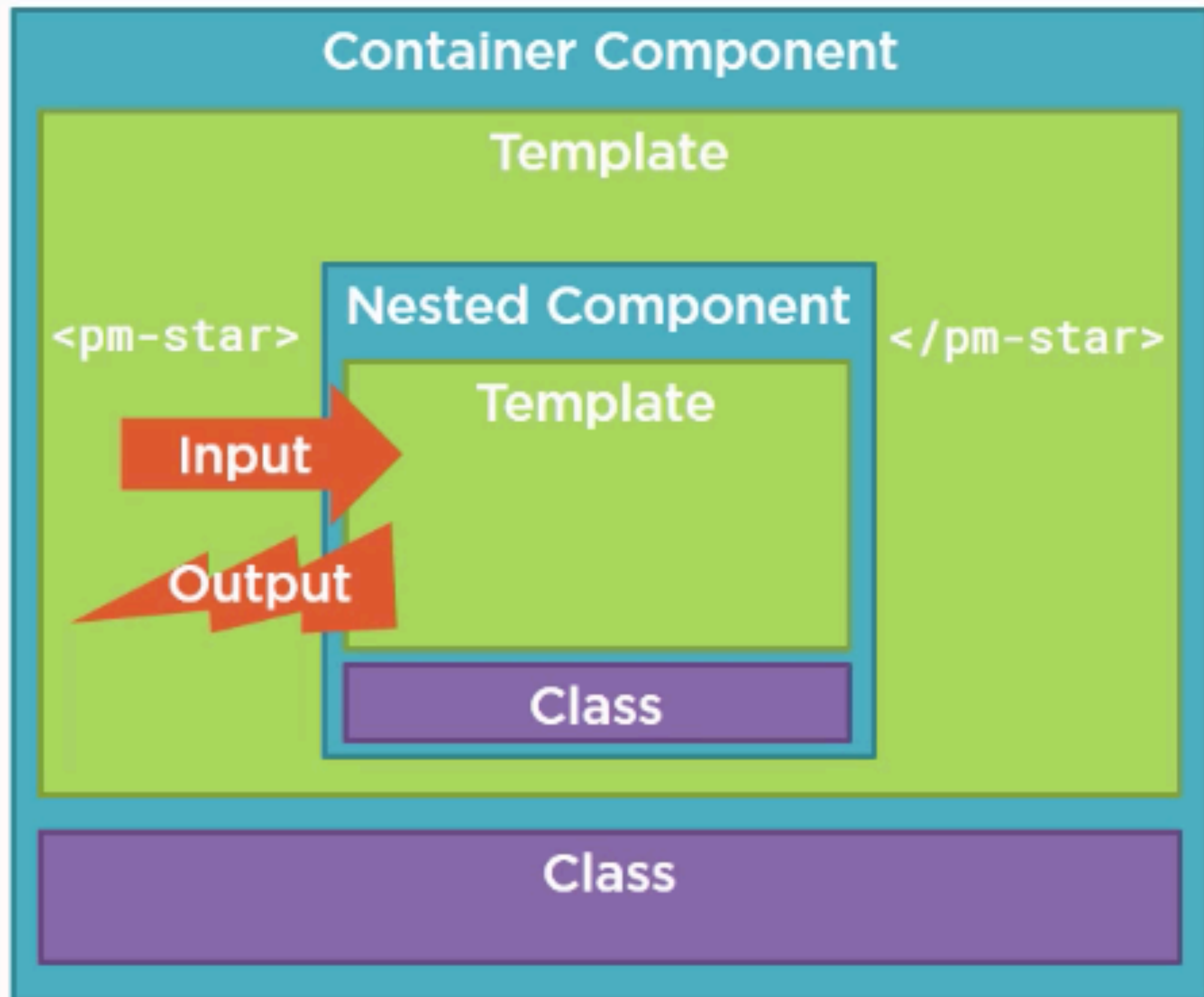
Component

```
constructor(private _myService) {}
```

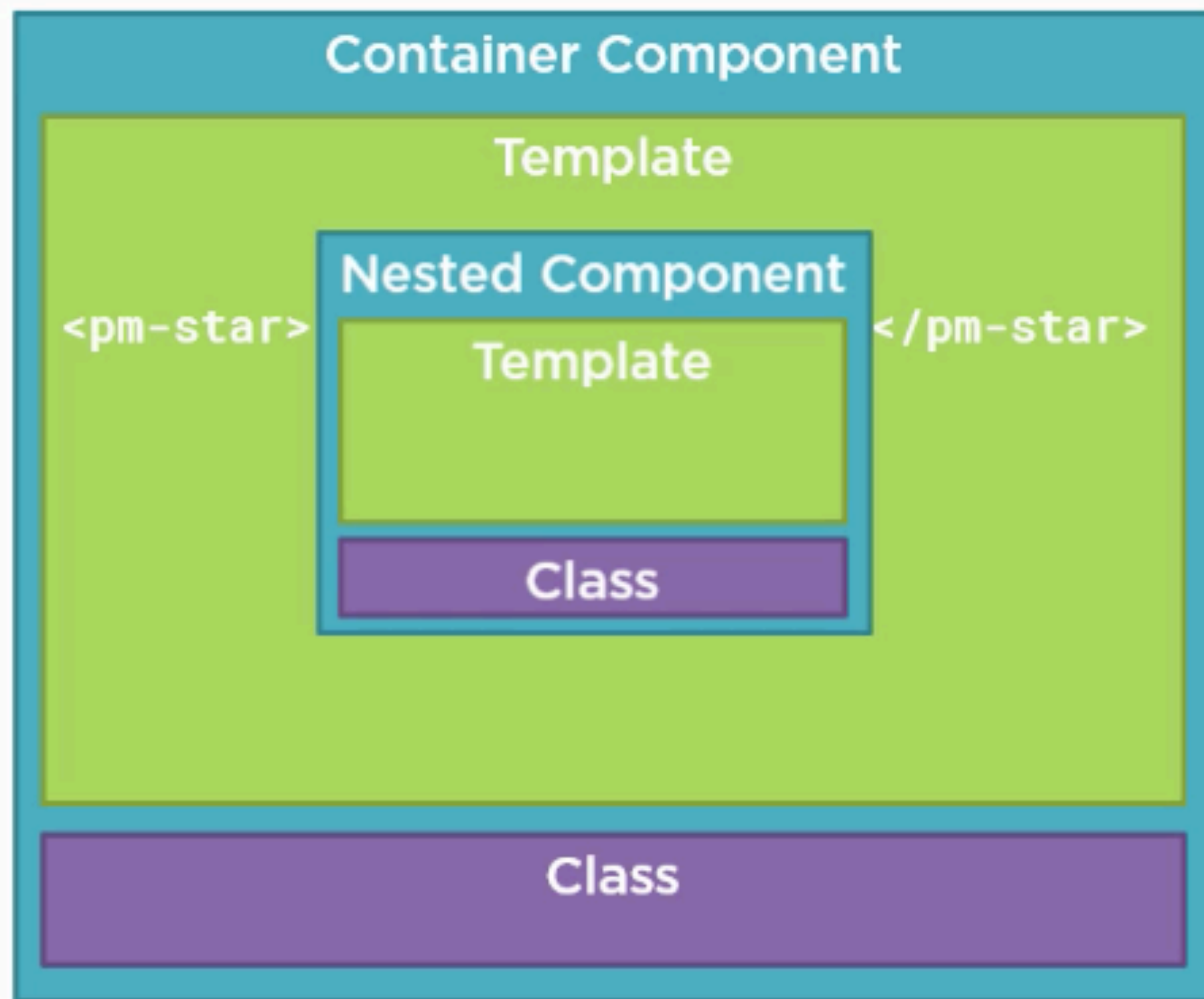
Nest-able Component's Public API



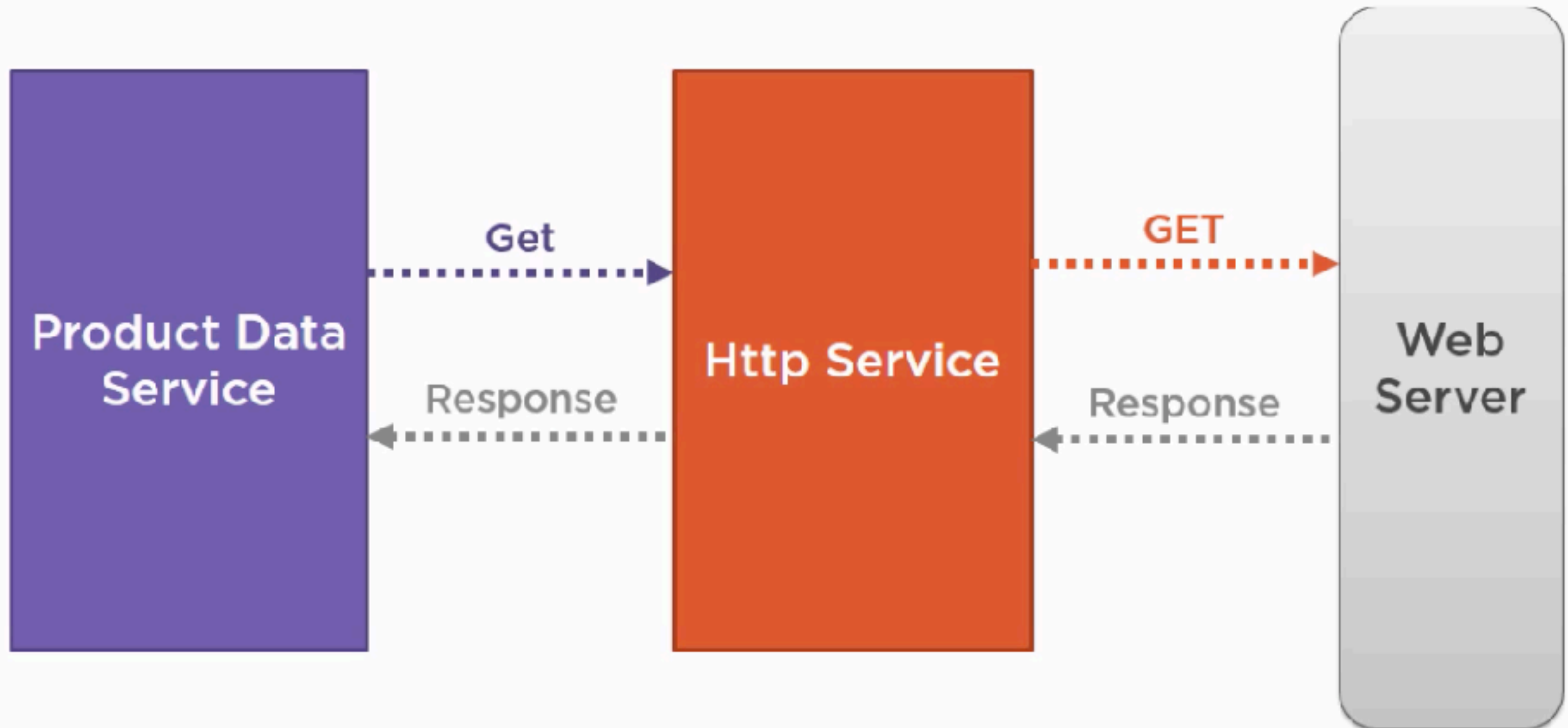
Building a Nested Component



g a Nested Component



Sending an Http Request



Sending an Http Request

product.service.ts

```
...
import { HttpClient } from '@angular/common/http';

@Injectable()
export class ProductService {
  private _productUrl = 'www.myWebService.com/api/products';

  constructor(private _http: HttpClient) { }

  getProducts() {
    return this._http.get(this._productUrl);
  }
}
```

Sending an Http Request

product.service.ts

```
import { HttpClient } from '@angular/common/http';
```

```
@Injectable()
export class ProductService {
  private _productUrl = 'www.myWebService.com/api/products';

  constructor(private _http: HttpClient) { }

  getProducts() {
    return this._http.get(this._productUrl);
  }
}
```

Observables

Interactive diagrams of Rx Observables



```
map(x => 10 * x)
```



Subscribing to an Observable

```
x.then(valueFn, errorFn)           //Promise
x.subscribe(valueFn, errorFn)       //Observable
x.subscribe(valueFn, errorFn, completeFn) //Observable
let sub = x.subscribe(valueFn, errorFn, completeFn)
```

product-list.component.ts

```
ngOnInit(): void {
  this._productService.getProducts()
    .subscribe(
      products => this.products = products,
      error => this.errorMessage = <any>error);
}
```