Retrieving Data into a Signal



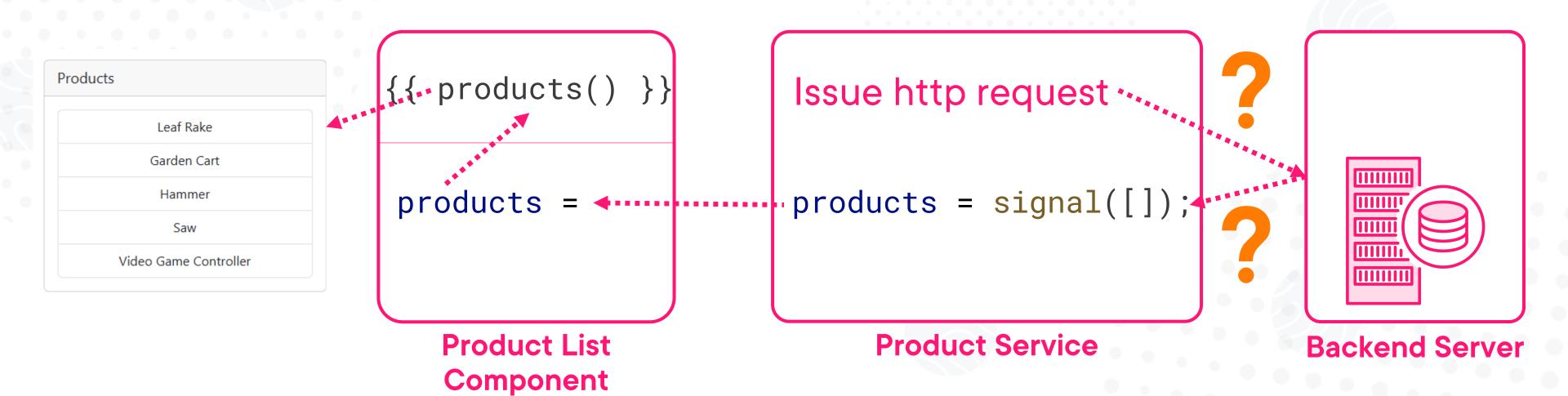
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Retrieving Data

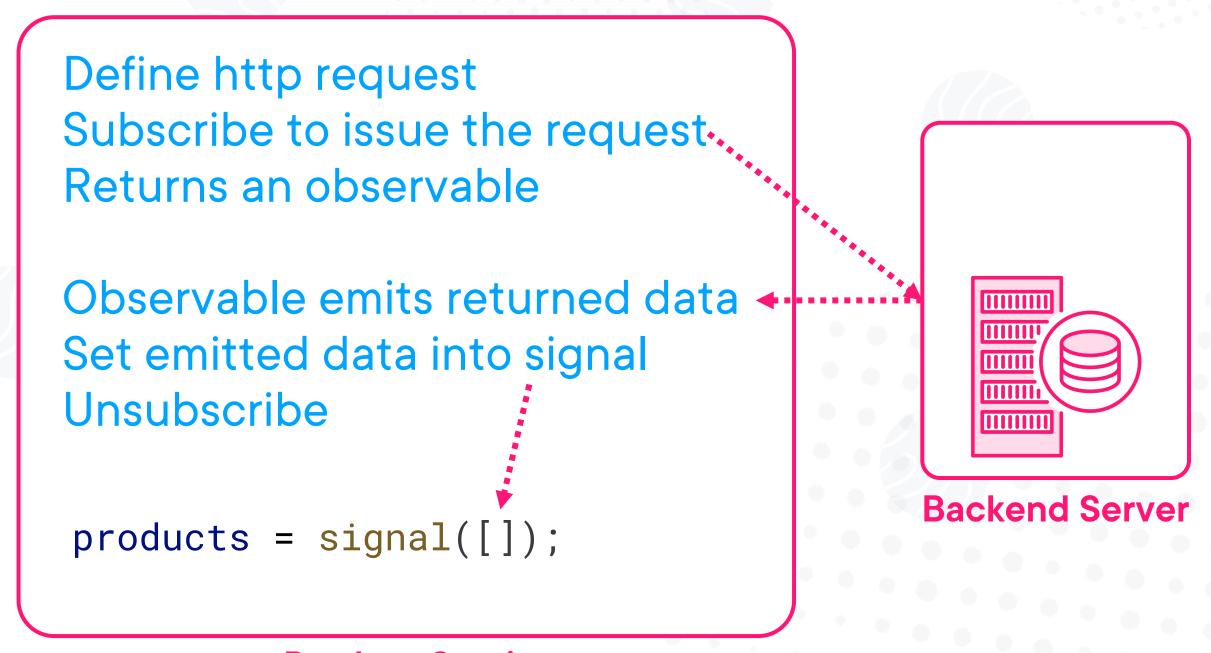






Retrieving Data (Observable)

Before
Angular v19



Product Service



Retrieving Data (httpResource())

Before
Angular v19

With the Resource API Angular v19+

Define http request Subscribe to issue the request. Returns an observable Observable emits returned data Set emitted data into signal Unsubscribe products = signal([]);

Product Service



Backend Serve

Retrieving Data (httpResource())

Products

{ { · products() } }

products =

Product List

Component

Declare a resource Issues http request Returns a ResourceRef

ResourceRef

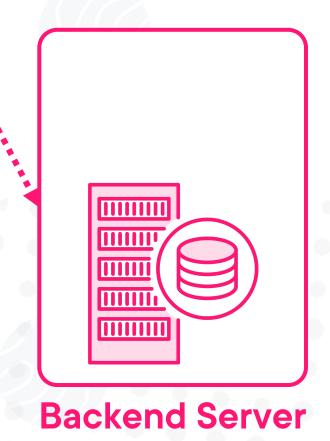
value: returned data

status: request status

error: any error info

Product Service

value = undefined status = loading error = undefined





Retrieving Data (httpResource())

Products = 4

Component

Declare a resource Issues http request Returns a ResourceRef

ResourceRef

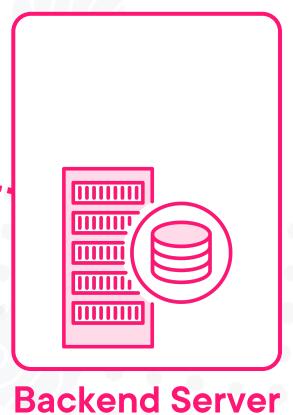
value: returned data

status: request status

error: any error info

Product Service

value = products[]
status = resolved
error = undefined







The Resource API is experimental and could change before it's stable



Providing HttpClient (app.config.ts)

```
import { provideHttpClient } from '@angular/common/http';
export const appConfig: ApplicationConfig = {
 providers:
    provideHttpClient()
```

Resource API: Retrieve data directly into a signal



Where Should We Declare Our Resources?

Service

VS.

Component

To share the retrieved data among several components

To retain the data after the component is destroyed

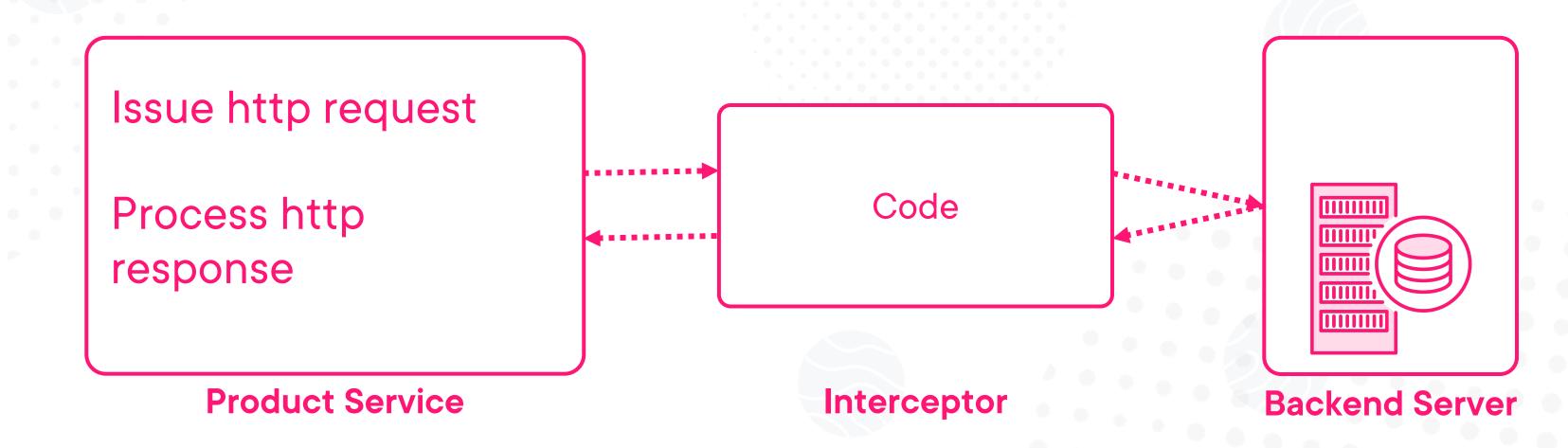
```
productsResource =
   httpResource<Product[]>(() =>
     this.productsUrl,
     {defaultValue: []}
);
```

If only one component needs the data

To initialize and destroy the resource with the component

```
ps = inject(ProductService);
productsResource =
   this.ps.createProducts();
```

Can I Use Interceptors?





Can We Use the Resource API for Update Operations?

No











Are There Other Types of Resources?



resource(): Lower level; works with promises



rxResource(): Works with observables

• • •

Watch for more to come!



What's with That URL?

```
productsUrl = 'api/products';
```

```
url = 'https://jsonplaceholder.typicode.com/todos';
```

Angular in-memory-web-api

https://github.com/angular/angular/tree/main/packages/misc/angular-in-memory-web-api

How do we pass parameters?

How do we re-get data when a signal changes?



GitHub

https://github.com/DeborahK/angular-signals-ps-course

Beginning sample application files:

apm-begin

Final (completed) sample application files:

apm-end

File with clickable links to additional information:

MOREINFO.md