

# Curso de Consumo de APIs REST con Angular





**Nicolas Molina Monroy**

@nicobytes | Google Dev Expert

# Angular Platform



Forms



PWA



Language  
Services



Router



Elements



CDK



Universal



Compiler



i18n



Http



Material



CLI

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# Angular Http

@angular/common/http




# JSON Viewer



The screenshot shows the Chrome Web Store page for the 'JSON Viewer' extension. The page has a white background with a blue header bar. The extension's icon, a blue square with a white curly brace and a list icon, is on the left. The title 'JSON Viewer' is in large black font. Below it, the developer 'tulios' is listed. The extension has 935 stars and over 1,000,000 users. A blue button 'Añadir a Chrome' is on the right. Below the main information, there are tabs for 'Descripción general', 'Prácticas de privacidad', 'Reseñas', 'Ayuda', and 'Relacionados'. At the bottom, there is a preview of the extension's interface, which is a dark-themed code editor showing a JSON object.

chrome web store

Inicio > Extensiones > JSON Viewer

 **JSON Viewer** [Añadir a Chrome](#)

Ofrecido por: tulios

★★★★★ 935 | [Herramientas para desarrolladores](#) | 1.000.000+ usuarios

☑ Funciona sin conexión

[Descripción general](#) [Prácticas de privacidad](#) [Reseñas](#) [Ayuda](#) [Relacionados](#)

```
1 // 20150625170715
2 // https://api.github.com/repos/tulios/json-viewer
3
4 {
5   "id": 12635853,
6   "name": "json-viewer",
7   "full_name": "tulios/json-viewer",
8   "owner": {
9     "login": "tulios",
10    "id": 33231,
11    "avatar_url": "https://avatars.githubusercontent.com/u/33231?v=3",
```

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# Solicitudes GET



# Conectando a un API



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# Detalle producto





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# Implementando Slides



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# Solicitudes POST



# Data Transfer Object



```
{  
  "title": "Nuevo producto",  
  "price": 121,  
  "categoryId": 1,  
  "description": "bla bla bla",  
  "image": "https://placeimg.com/..."  
}
```

# Response



```
{  
  "title": "asa",  
  "price": 121,  
  "description": "asas",  
  "image": "https://placeimg.com/...",  
  "category": {  
    "id": 1,  
    "name": "Clothes"  
  },  
  "id": 51  
}
```

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# Solicitudes PUT & PATCH



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# Solicitudes DELETE



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# Parámetros URLs



# Parámetros URLs



myapi.com/products&page=1

myapi.com/products&price=100

myapi.com/products&price\_min=100?price\_max=300



# Paginación con limit & offset



Limit = 2

Offset = 0



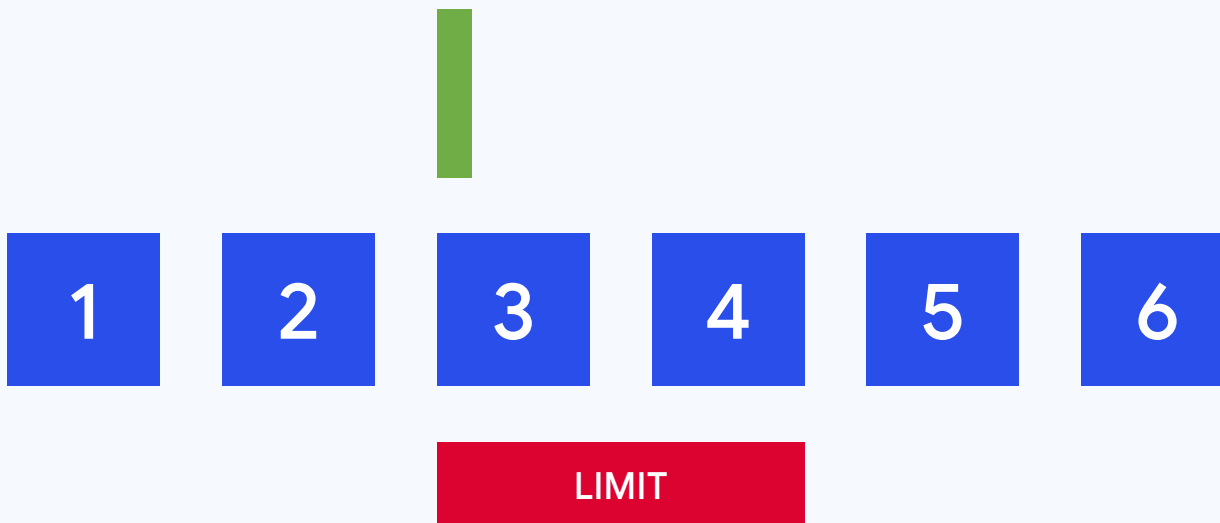
LIMIT

# Paginación con limit & offset



Limit = 2

Offset = 2



# Paginación con limit & offset



Limit = 2

Offset = 4



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# Observable & Promise



# Promise



```
fetch( 'my-api-goes-here' )  
  .then( resp => resp.json() );  
//  
const data = await fetch( 'url' );  
const json = await data.json()
```

# Observable



```
const data$ = new Observable("stuff here")

data$.subscribe(data => {
  // do some stuff here
})
```

# Promises & Observables



## Promesa

- Emite un solo valor
- Simplicidad

## Observable

- Stream de datos (puede emitir múltiples valores).
- Es posible escuchar constantemente: eventos, responsive, fetchs.
- Se puede cancelar.

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# Reintentar petición



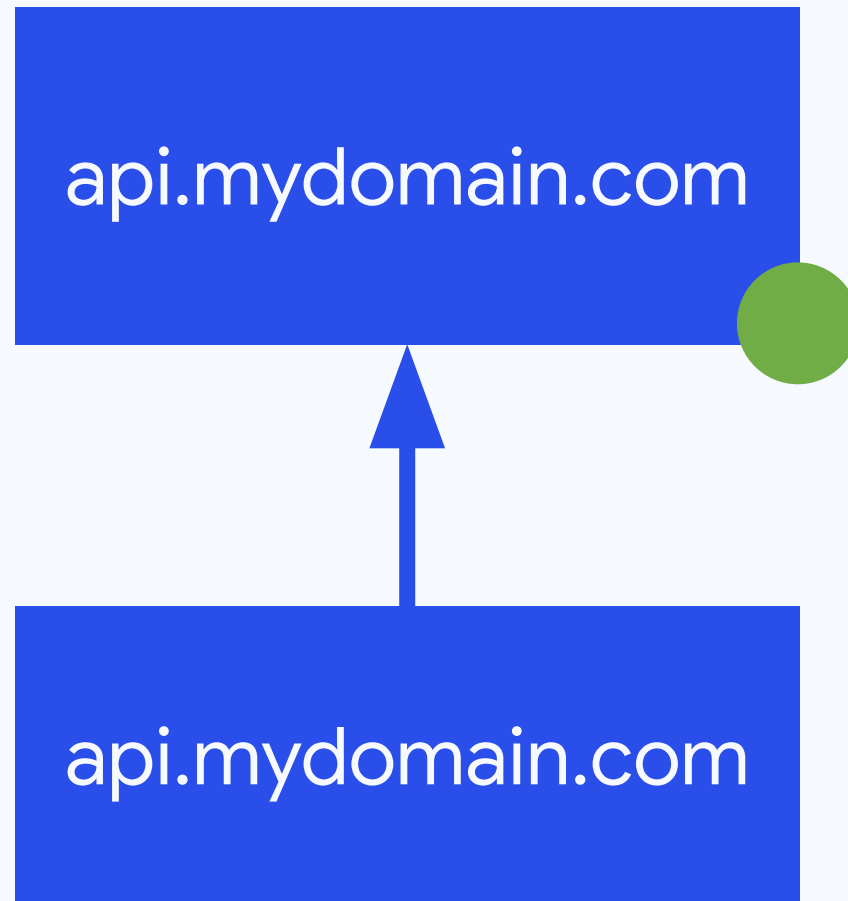


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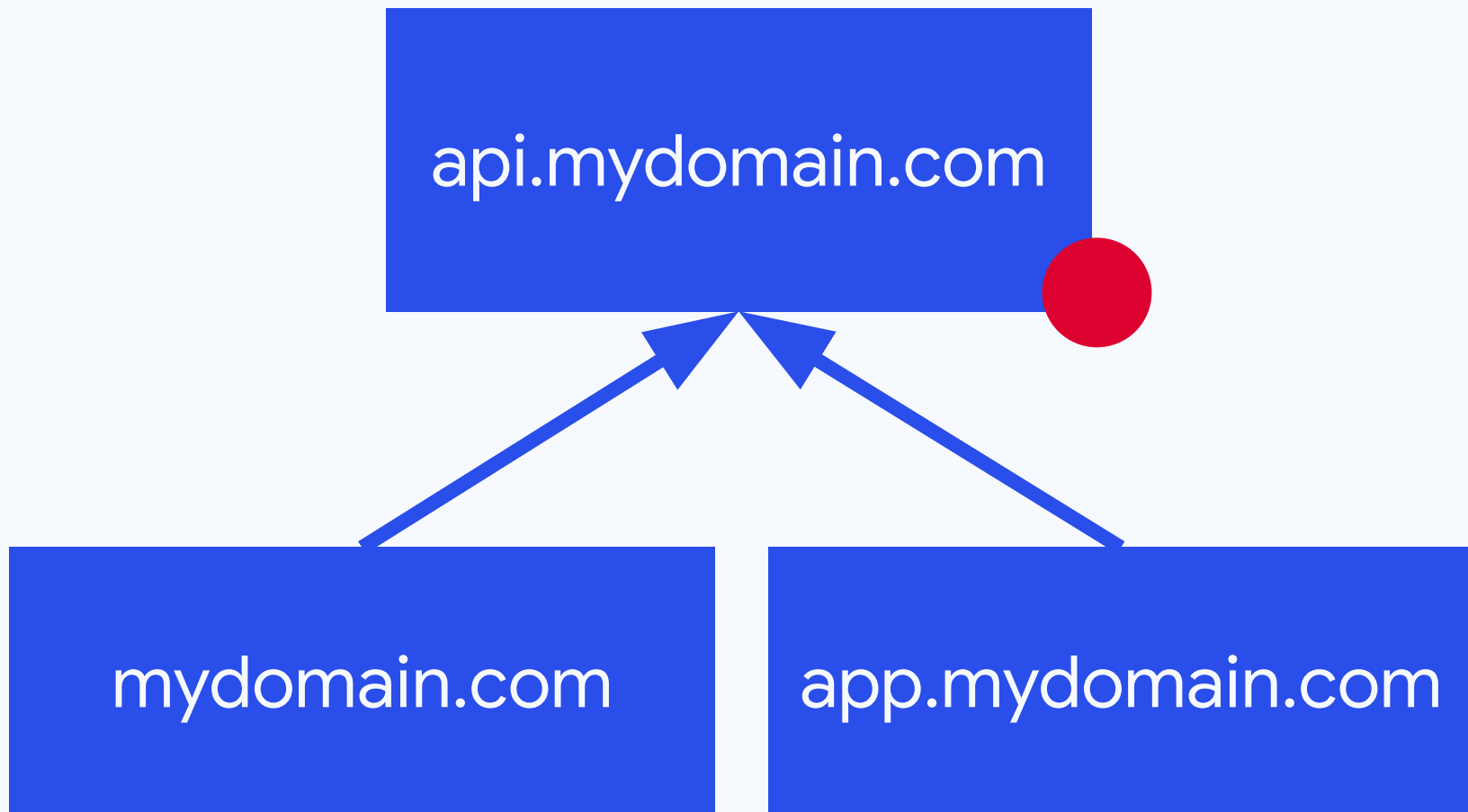
# El problema de CORS



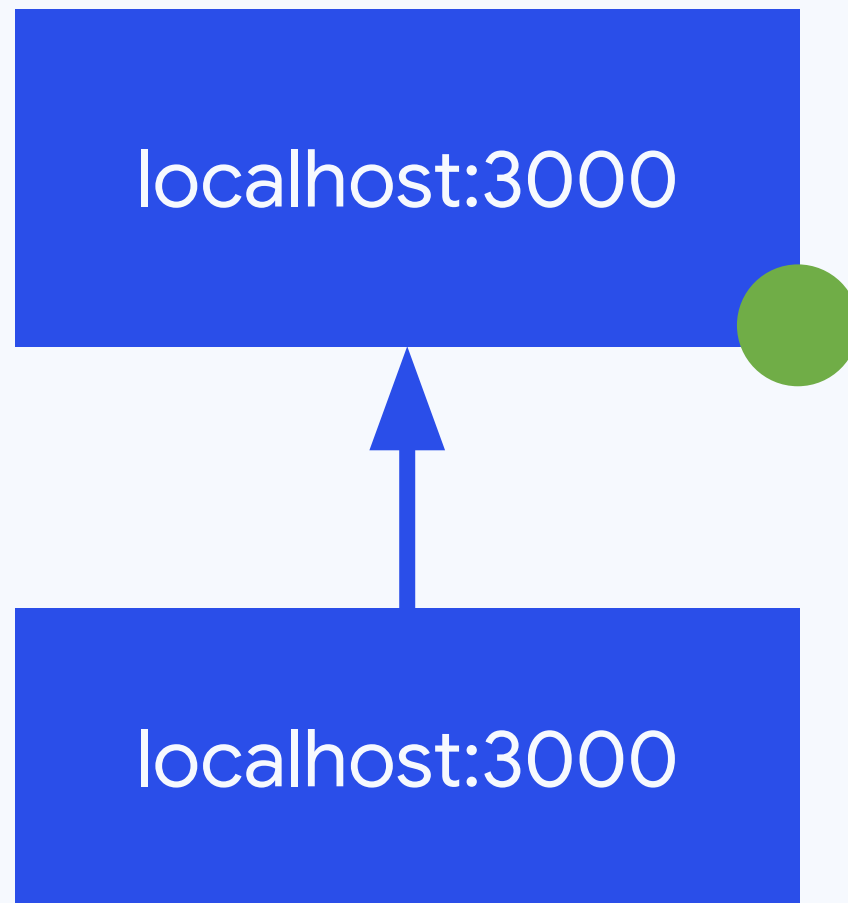
# CORS



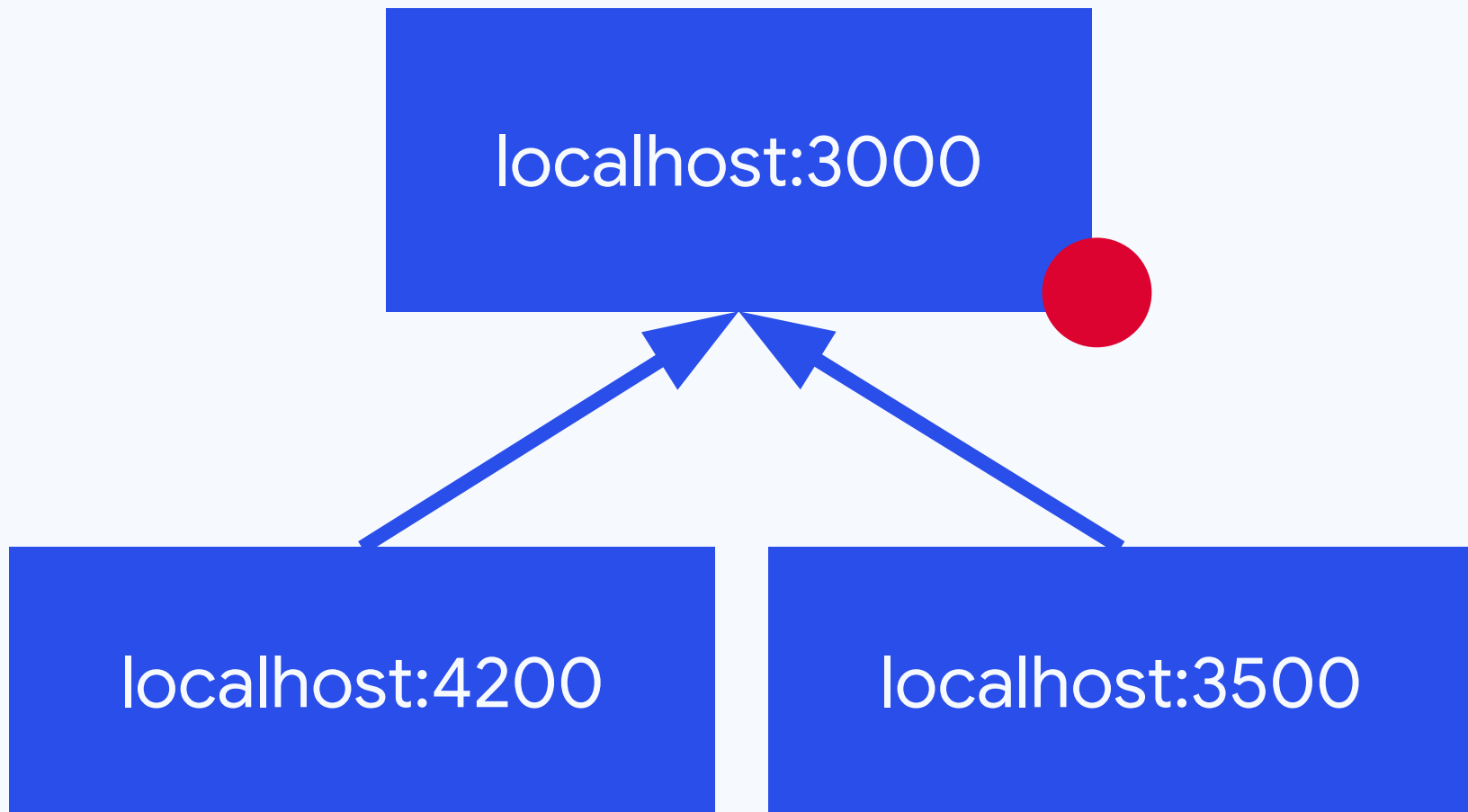
# CORS



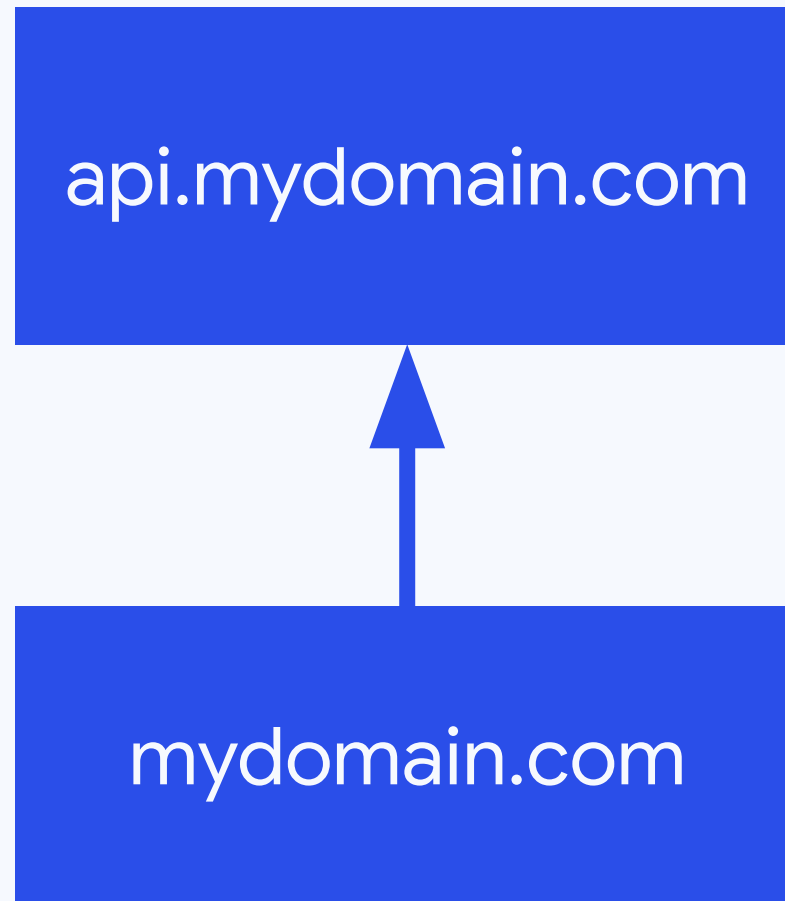
# CORS



# CORS



# CORS



# CORS



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[mydomain.com, app.mydomain.com]

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[..., localhost:4200]

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# El problema de CORS





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# Manejo de ambientes



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# Manejo de errores



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# Transformar peticiones



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# Evitando el Callback Hell



# Callback Hell



```
1 function hell(win) {
2   // for listener purpose
3   return function() {
4     loadLink(win, REMOTE_SRC+'/assets/css/style.css', function() {
5       loadLink(win, REMOTE_SRC+'/lib/async.js', function() {
6         loadLink(win, REMOTE_SRC+'/lib/easyXDM.js', function() {
7           loadLink(win, REMOTE_SRC+'/lib/json2.js', function() {
8             loadLink(win, REMOTE_SRC+'/lib/underscore.min.js', function() {
9               loadLink(win, REMOTE_SRC+'/lib/backbone.min.js', function() {
10                loadLink(win, REMOTE_SRC+'/dev/base_dev.js', function() {
11                  loadLink(win, REMOTE_SRC+'/assets/js/deps.js', function() {
12                    loadLink(win, REMOTE_SRC+'/src/' + win.loader_path + '/loader.js', function() {
13                      async.eachSeries(SRIPTS, function(src, callback) {
14                        loadScript(win, BASE_URL+src, callback);
15                      });
16                    });
17                  });
18                });
19              });
20            });
21          });
22        });
23      });
24    });
25  };
26 }
```

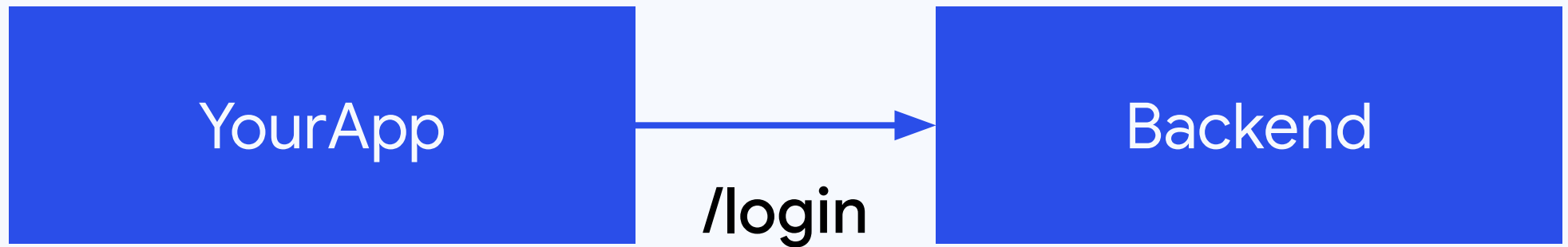


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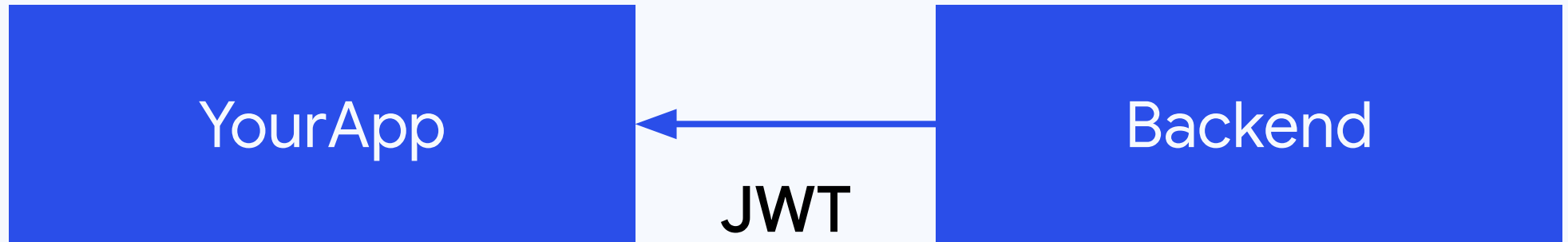
# Login y manejo de Auth



# Manejo de Auth

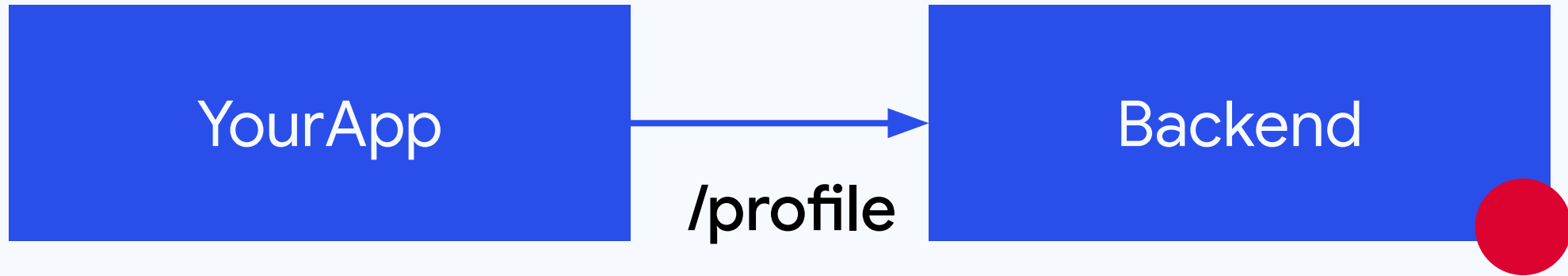


# Manejo de Auth

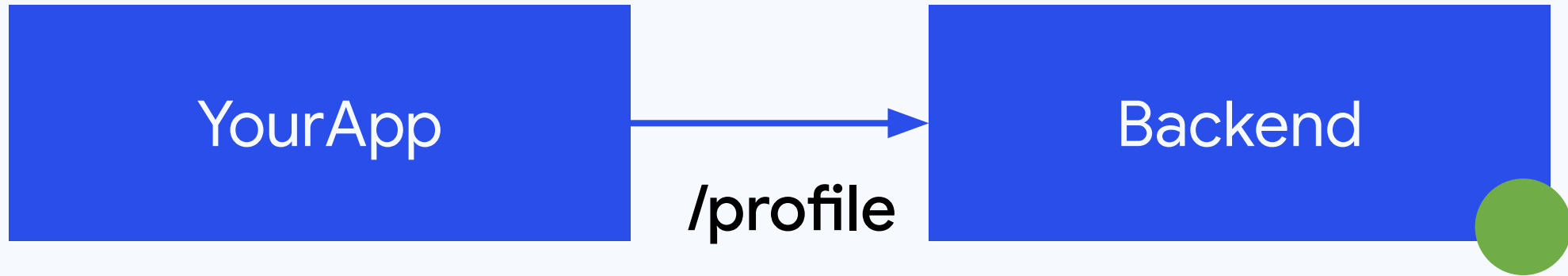




# Manejo de Auth



# Manejo de Auth



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# Customer Headers



# Authorization



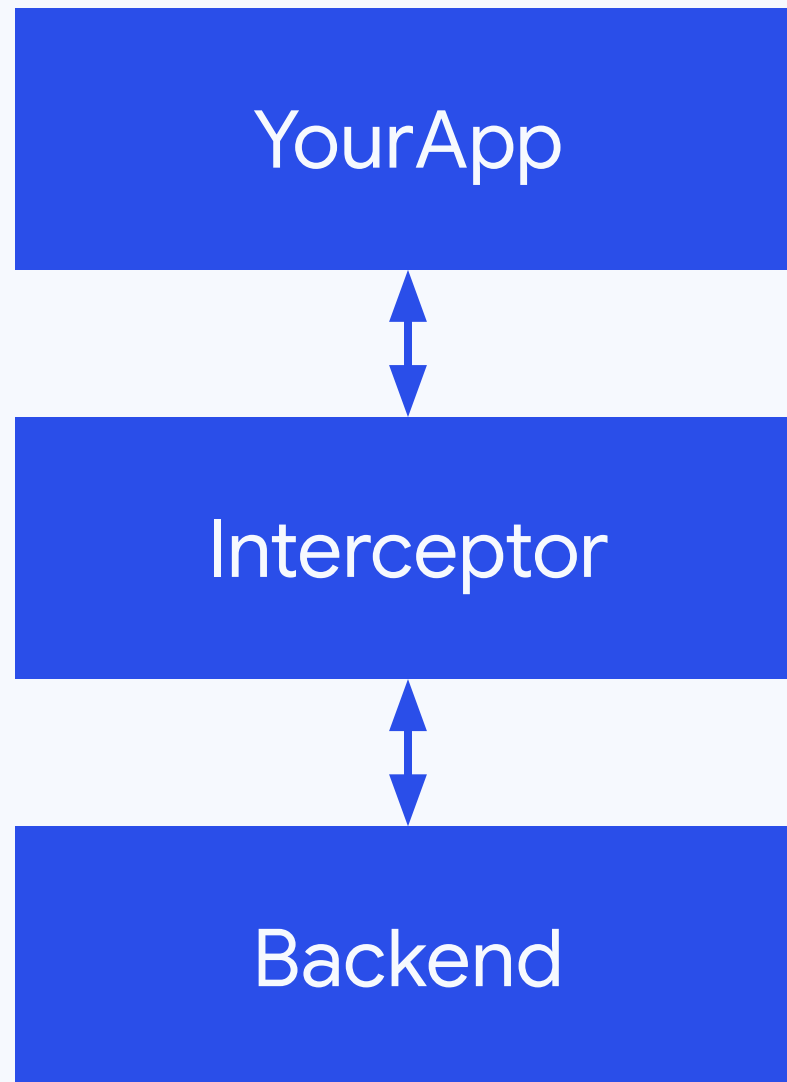
Authorization: <type> <credentials>  
Authorization: Bearer ...

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# Interceptors



# Interceptors



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# Enviar token con un interceptor





- In-memory storage
- LocalStorage & SessionStorage
- Cookie storage



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# Creando un contexto a interceptor



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# Descarga de archivos con Http



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# Subida de archivos con Http

