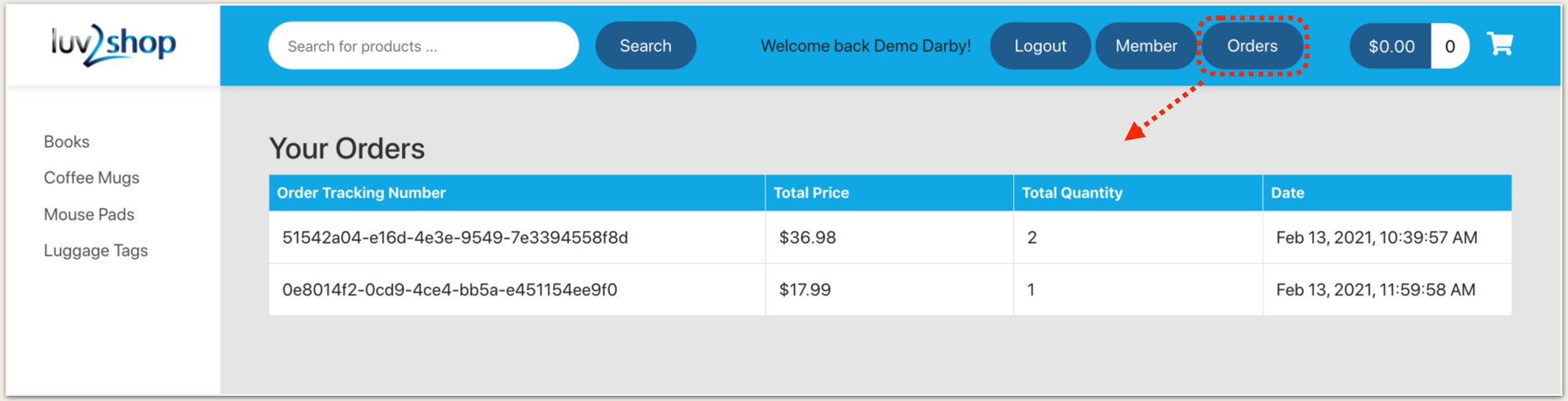
Order History Frontend
Pass Access Token

View Order History

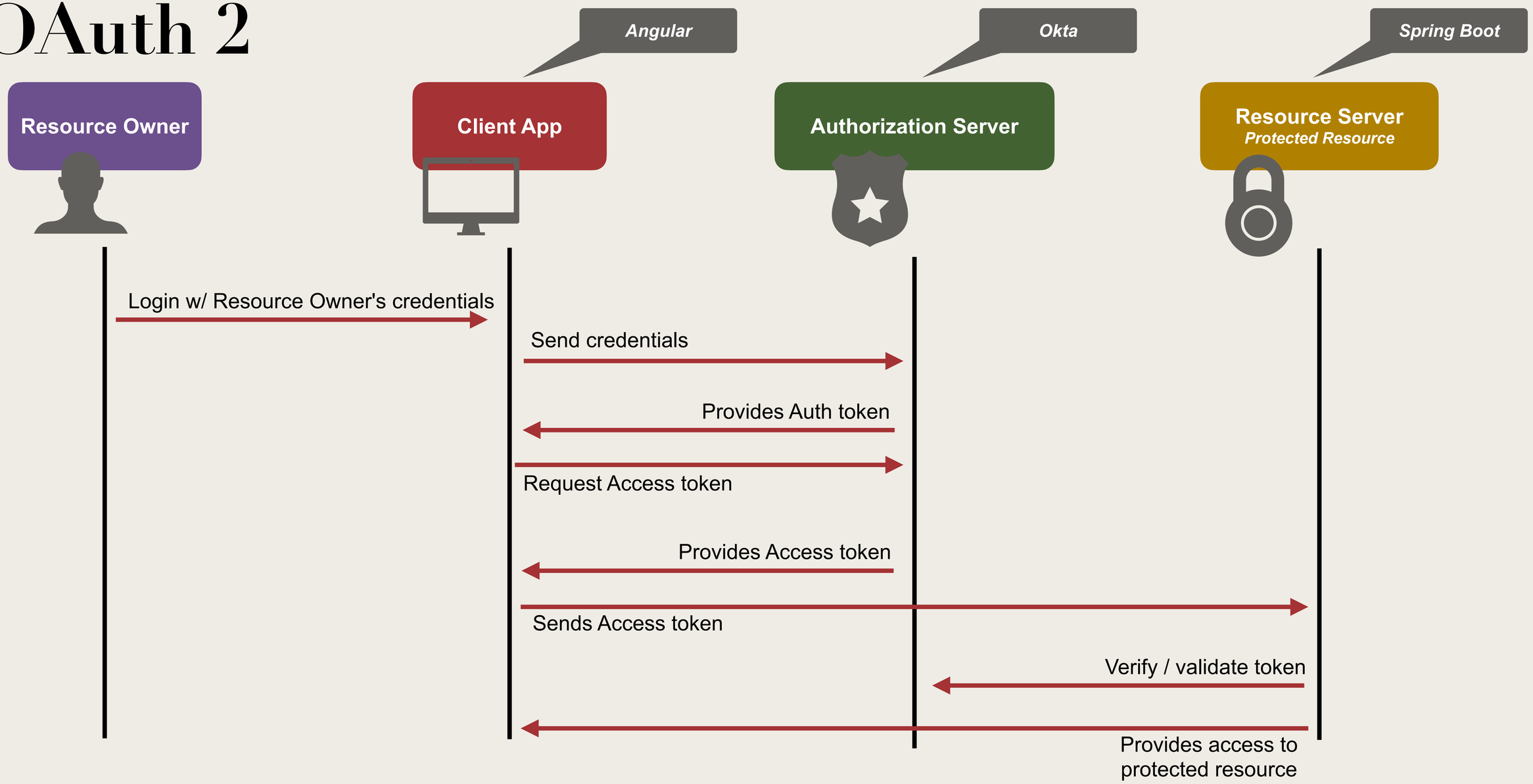
- The REST API for `/api/orders` is secured
- Need to update Angular App to pass the access token



Client sending access token

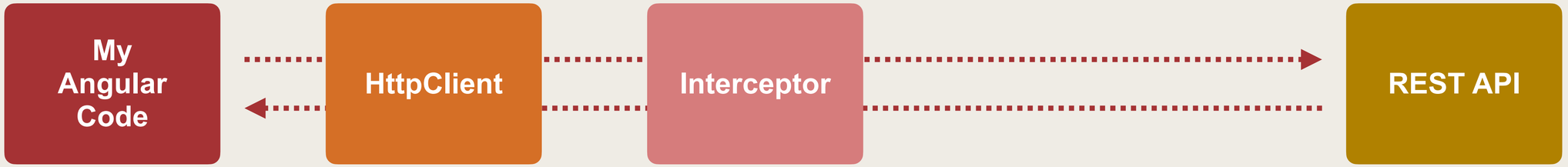
- Client sends the access token as an HTTP request header

OAuth 2



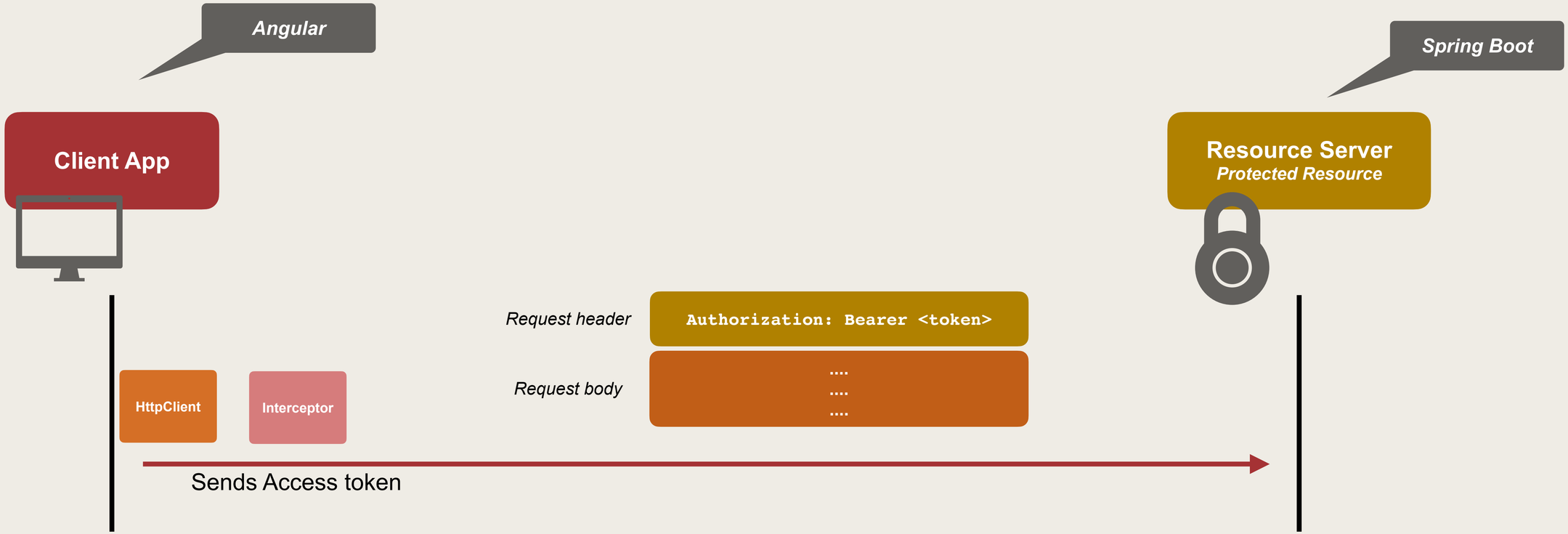
Angular Interceptors

- Angular provides support for interceptors
- An interceptor can intercept HTTP requests / responses
- Useful to perform processing on the HTTP requests / responses



Angular Interceptors

- We will use an interceptor to pass to access token in HTTP request



Development Process

1. Create an interceptor

2. Update app.module.ts to reference interceptor

Step 1: Create an interceptor

- Develop the interceptor as a service

```
$ ng generate service services/AuthInterceptor
```

Step 1: Create an interceptor

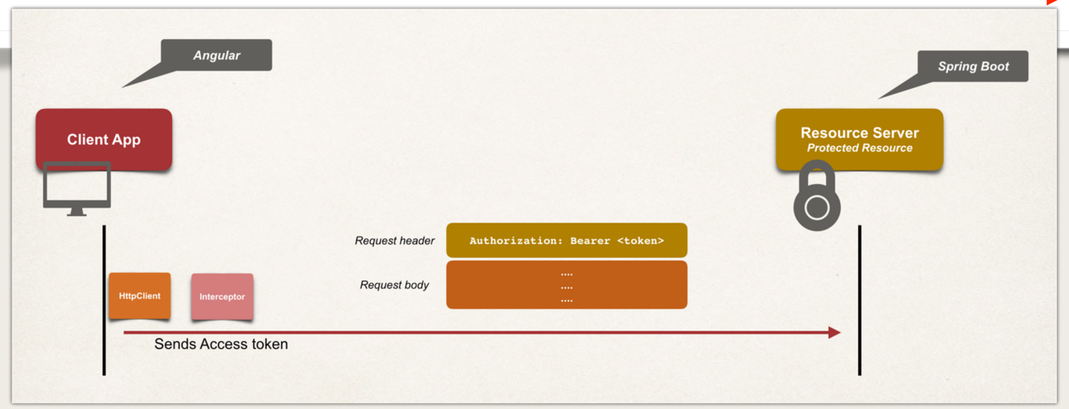
File: auth-interceptor.service.ts

```
import { HttpEvent, HttpHandler, HttpInterceptor, HttpRequest } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { OktaAuthService } from '@okta/okta-angular';
import { from, Observable } from 'rxjs';

@Injectable({
  providedIn: 'root'
})
export class AuthInterceptorService implements HttpInterceptor {

  constructor(private oktaAuth: OktaAuthService) { }

  intercept(request: HttpRequest<any>, next: HttpHandler): Observable<HttpEvent<any>> {
    return from(this.handleAccess(request, next));
  }
```



Asynchronous function

Returns a Promise

```
  private async handleAccess(request: HttpRequest<any>, next: HttpHandler): Promise<HttpEvent<any>> {

    // Only add an access token for secured endpoints
    const securedEndpoints = ['http://localhost:8080/api/orders'];

    if (securedEndpoints.some(url => request.urlWithParams.includes(url))) {

      // get access token
      const accessToken = await this.oktaAuth.getAccessToken();

      // clone the request and add new header with access token
      requ
        se
                                                    ' + acce
        }
      });

    }

    return next.handle(request).toPromise();
  }
}
```

Waits for the async call to finish

Async call

Step 2: Update app.module.ts to reference interceptor

File: app.module.ts

```
...

@NgModule({

  declarations: [ ... ]

  imports: [ ... ]

  providers: [ProductService, { provide: OKTA_CONFIG, useValue: oktaConfig },
              {provide: HTTP_INTERCEPTORS, useClass: AuthInterceptorService, multi: true}],

})
...
```

Informs Angular that HTTP_INTERCEPTORS is a token for injecting an array of values

Token for HTTP interceptors

Register our AuthInterceptorService as an HTTP interceptor

Additional Resources

- Angular Interceptors
- Promises
- async / await

www.luv2code.com/angular-additional-resources