

# Laboratorul 13

Tehnologii Web

# Obiectivele laboratorului



**Session Cookies**



**JWT**



**API Key**



**OAuth**



**SPA**



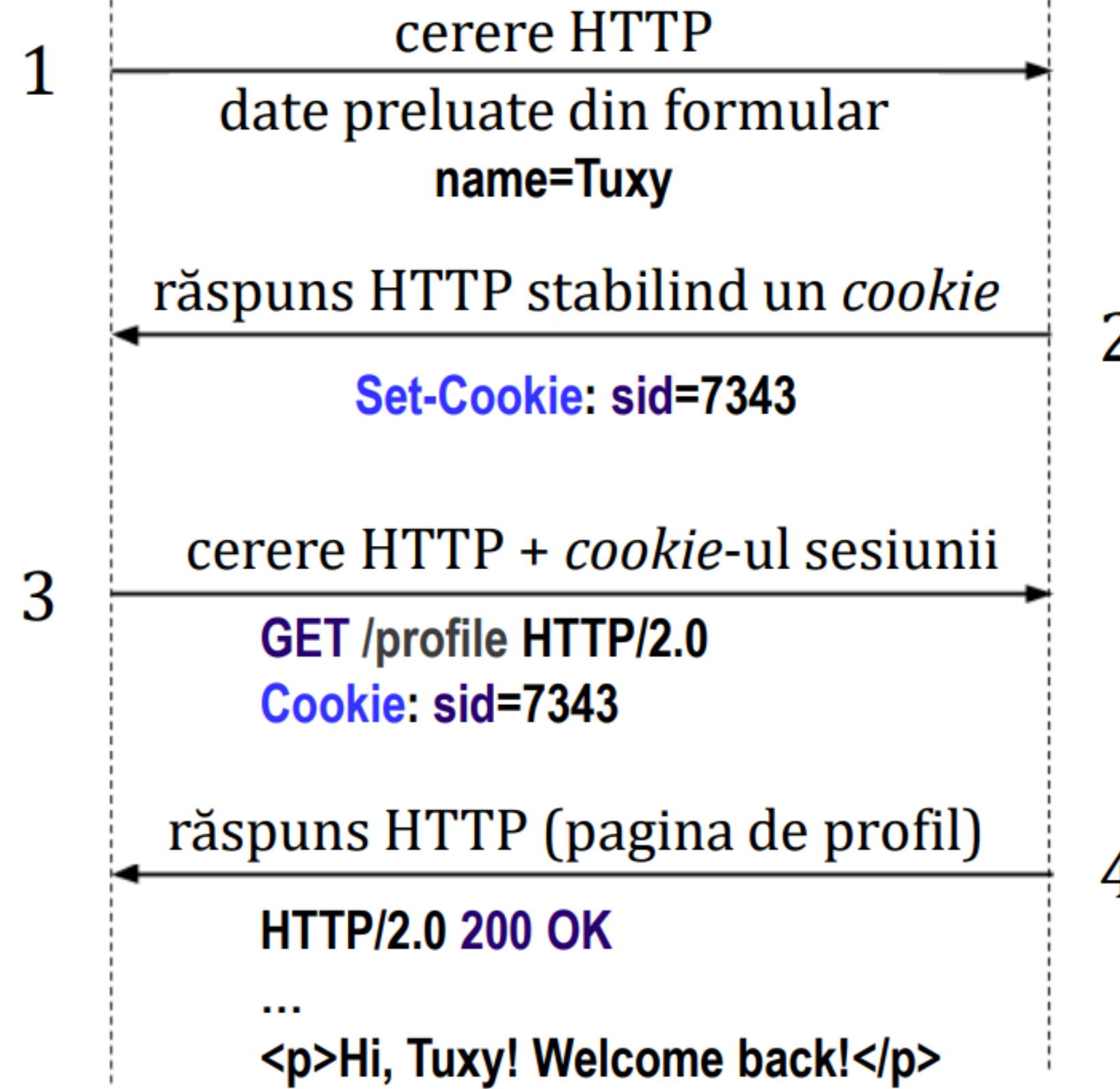
**Mash-up**

# Session Cookies

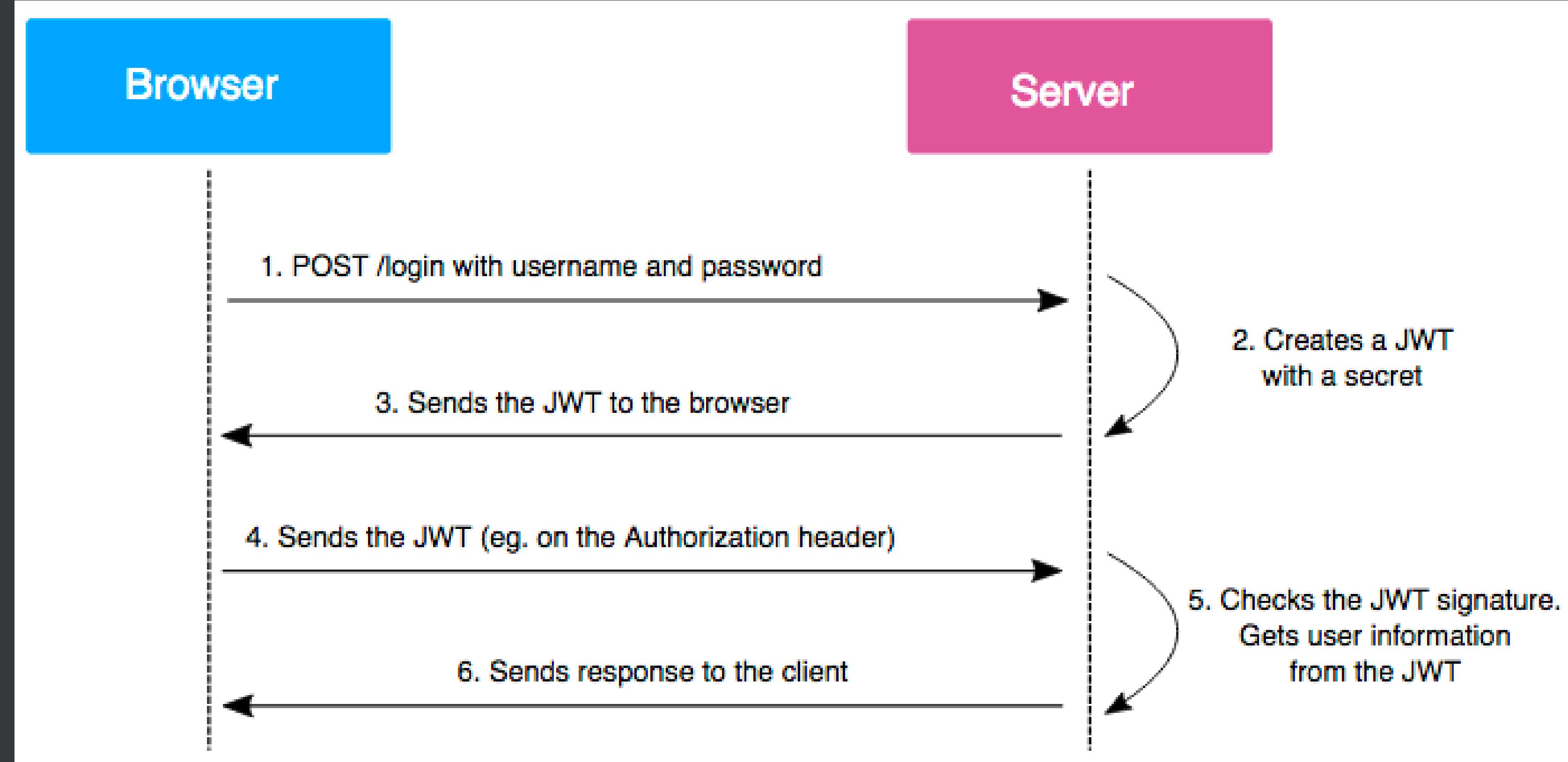


client Web (*browser*)

server Web (*daemon*)



# JWT



# JWT

```
1 private function createJWT() {
2     $secret_Key = $this -> secret_Key;
3     $date      = new DateTimeImmutable();
4     $expire_at    = $date->modify('+6 minutes')->getTimestamp();
5     $domainName = $this -> domainName;
6     $username   = "username";
7
8     $request_data = [
9         'iat'  => $date->getTimestamp(),           // ! Issued at: time when the token was generated
10        'iss'  => $domainName,                      // ! Issuer
11        'nbf'  => $date->getTimestamp(),           // ! Not before
12        'exp'  => $expire_at,                      // ! Expire
13        'user_name' => $username,                  // User name
14    ];
15
16    $response['status_code_header'] = 'HTTP/1.1 200 OK';
17    $response['content_type_header'] = 'Content-Type: application/json';
18    $response['body'] = JWT::encode(
19        $request_data,
20        $secret_Key,
21        'HS512'
22    );
23
24    return $response
25 }
```



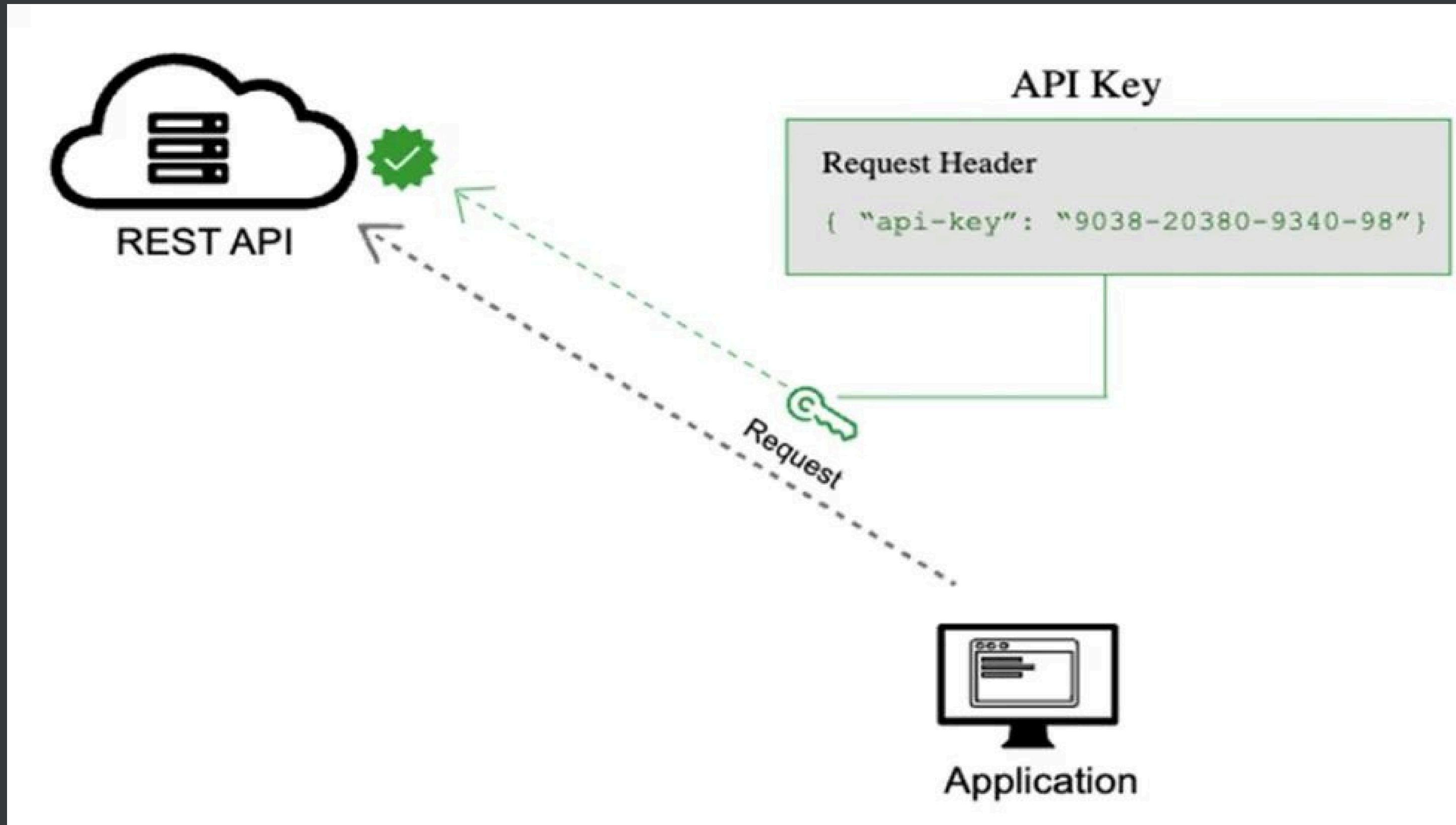
# JWT

```
1 public function validateJWT( $jwt ) {
2     $secret_Key = $this -> secret_Key;
3
4     try {
5         $token = JWT::decode($jwt, new Key($secret_Key, 'HS512'));
6     } catch (Exception $e) {
7         header('HTTP/1.1 401 Unauthorized');
8         exit;
9     }
10    $now = new DateTimeImmutable();
11    $domainName = $this -> domainName;
12
13    if ($token->iss !== $domainName ||
14        $token->nbf > $now->getTimestamp() ||
15        $token->exp < $now->getTimestamp())
16    {
17        header('HTTP/1.1 401 Unauthorized');
18        exit;
19    }
20 }
```



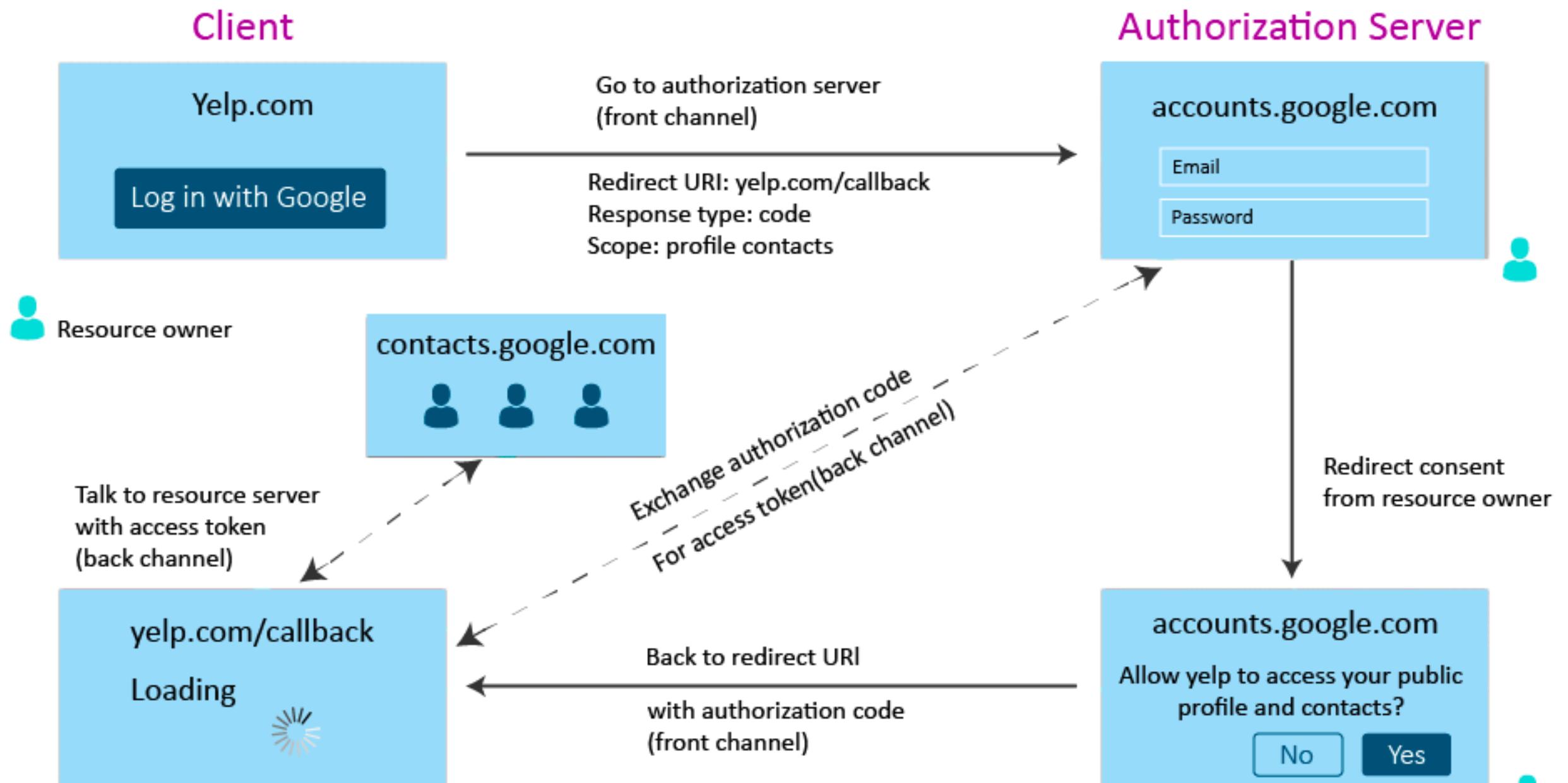
# Cum funcționează

# API Key



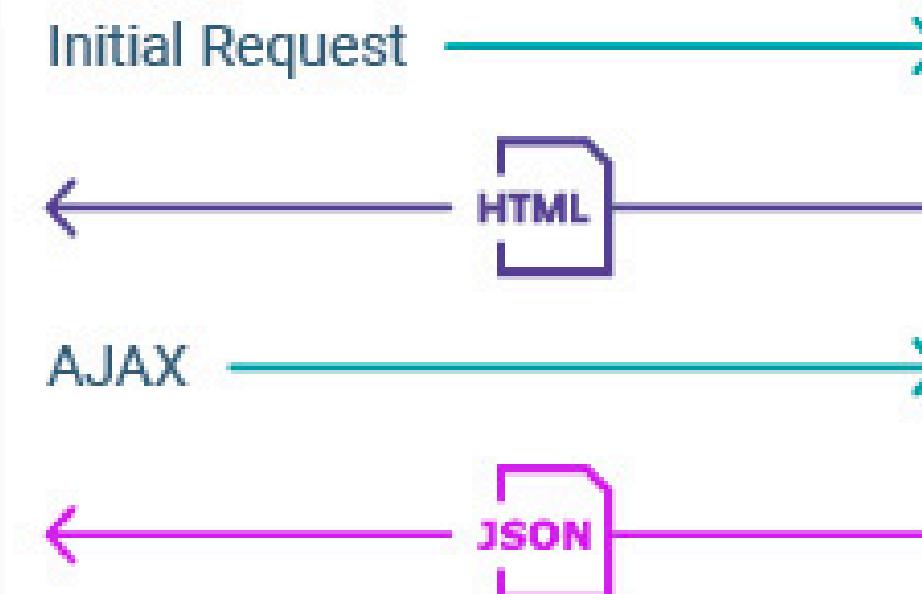
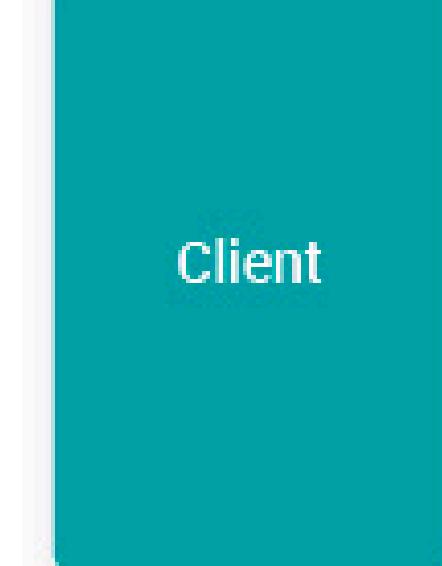
# Oauth 2.0

## OAuth 2.0 authorization code flow

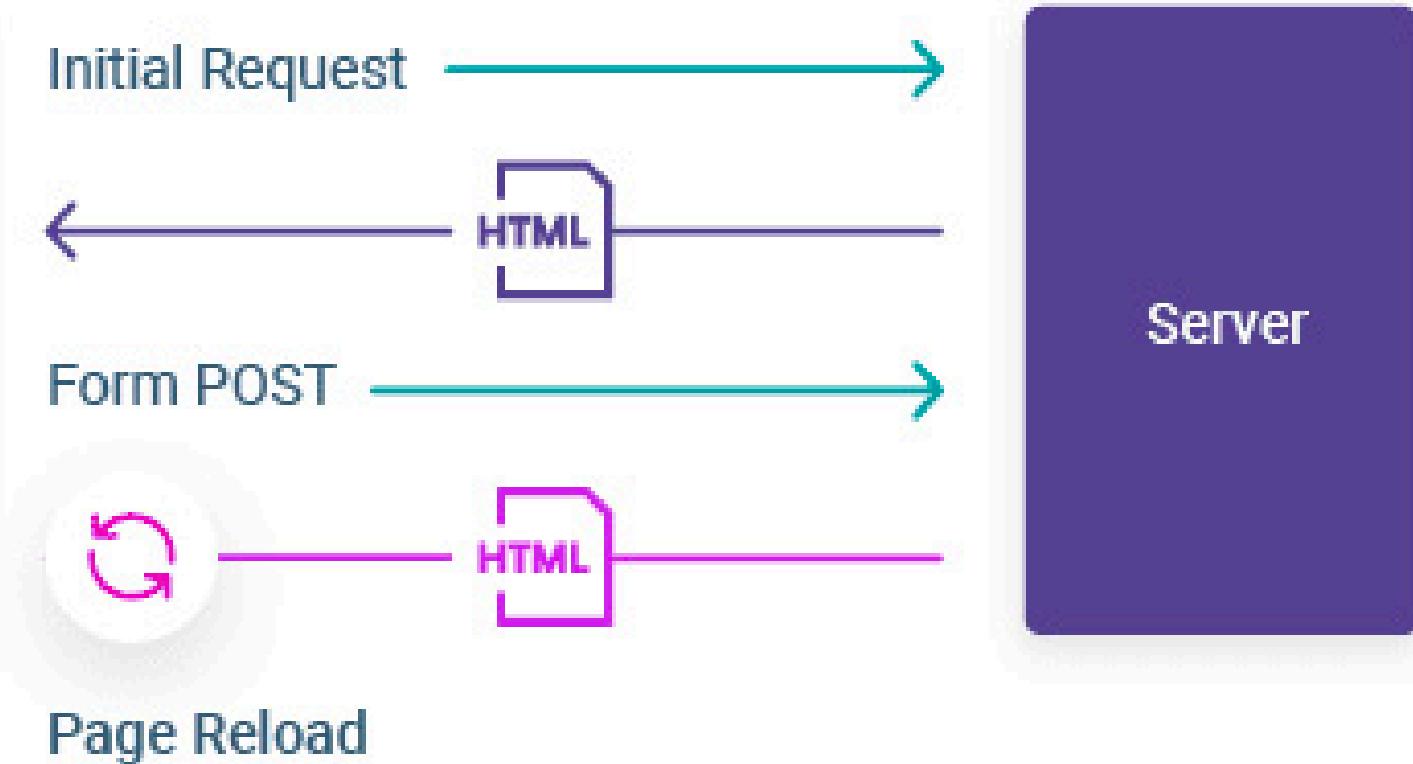
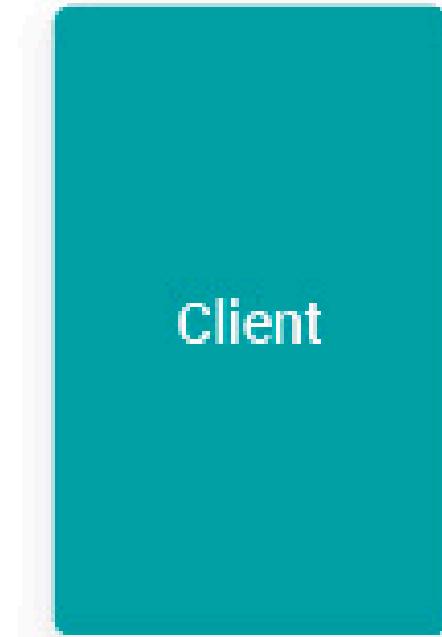


# SPA

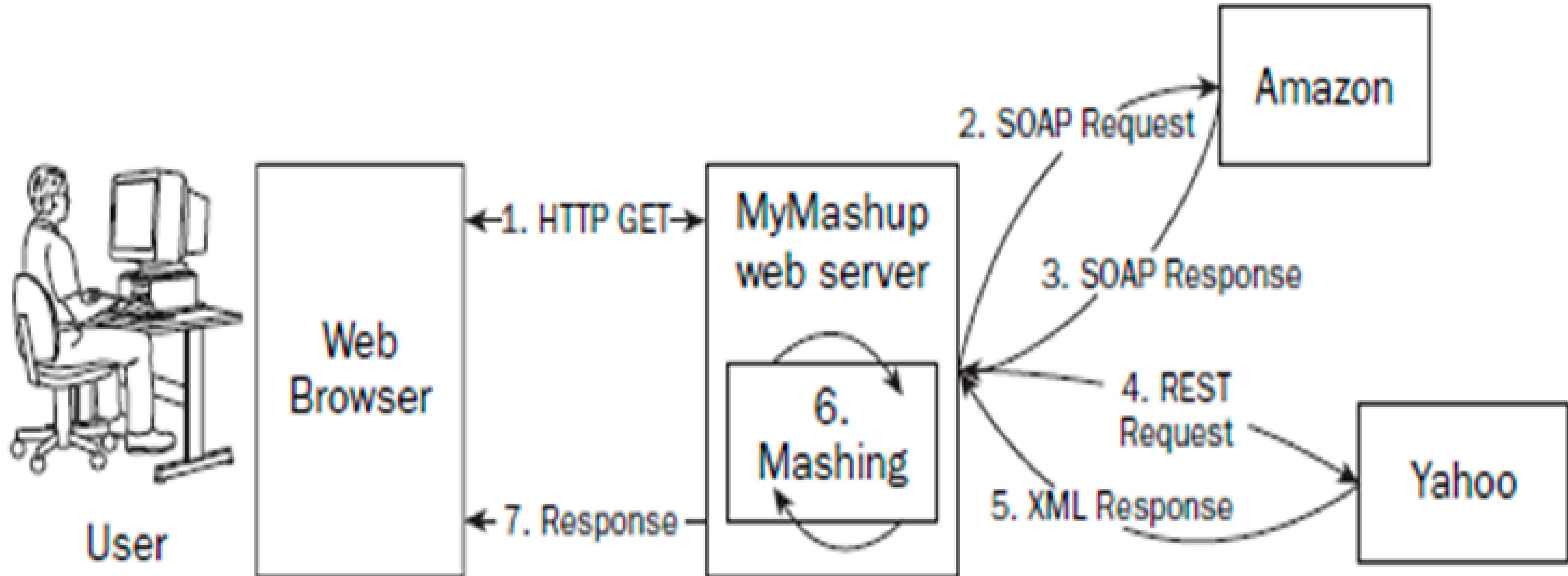
SPA Lifecycle



Multi-Page Lifecycle



# Mash-up



# Exerciții

**“ANYONE WHO HAS NEVER  
MADE A MISTAKE HAS NEVER  
TRIED ANYTHING NEW.**

”

— Albert Einstein