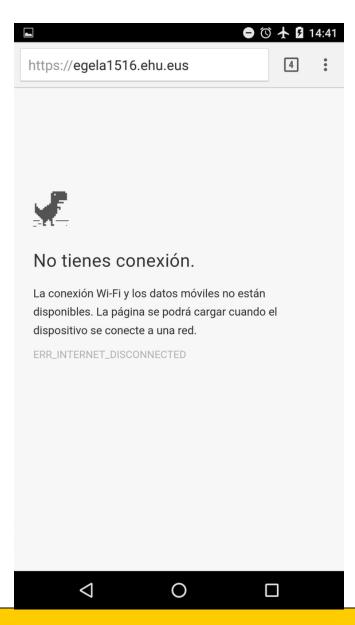
# **Aplicaciones Web sin Conexión Service Workers**

## Departamento LSI

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¿Podríamos llegar a tener acceso a otro contenido, por ejemplo, un test, **sin tener conexión**, permitirle al usuario hacer el test y sincronizarlo cuando volvamos a estar online?





Nice! You are currently online.

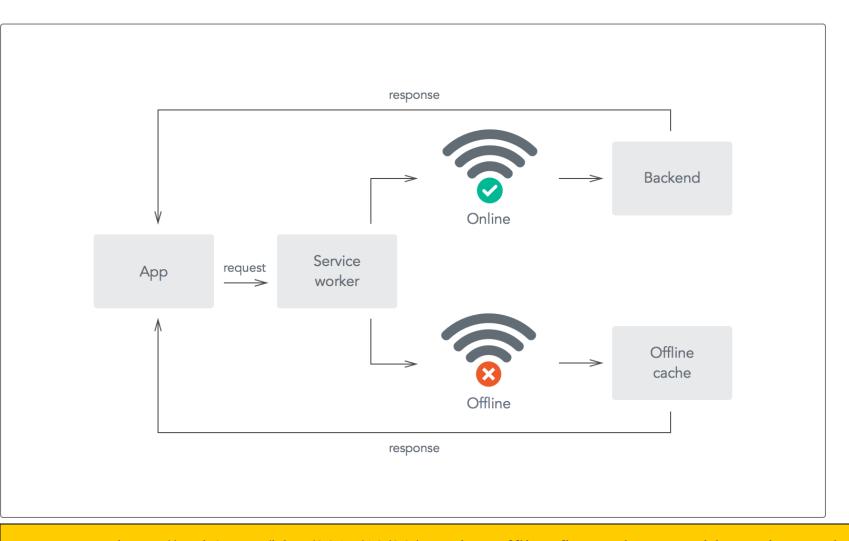




Boo! You don't have an internet connection.

Please check your network connection and try again.

## **Service Workers > AppCache**



1 Instalar Service Worker + añadir página offline a caché

2 Si el usuario intenta navegar sin conexión, devolver página cacheada

Si el usuario intenta navegar con conexión, continuar como siempre

### Instalar Service Worker + añadir página offline a caché

#### service-worker-register.js <script> // Register the service worker if ('serviceWorker' in navigator) { 3 navigator.serviceWorker.register('/service-worker.js').then(function(registration) { 4 // Registration was successful 5 console.log('ServiceWorker registration successful with scope: ', registration.scope); 6 }).catch(function(err) { 7 // registration failed :( 8 console.log('ServiceWorker registration failed: ', err); 9 }); 10 11 </script> 12

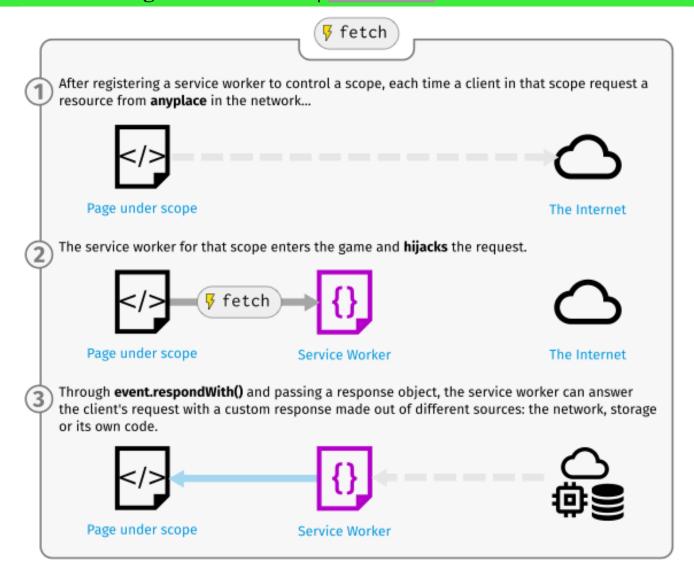
### Instalar Service Worker + añadir página offline a caché

```
'use strict';
 2
     var cacheVersion = 1;
 3
     var currentCache = {
 4
       offline: 'offline-cache' + cacheVersion
 5
     };
 6
     const offlineUrl = 'offline-page.html';
 7
 8
     this.addEventListener('install', event => {
 9
       event.waitUntil(
10
         caches.open(currentCache.offline).then(function(cache) {
11
           return cache.addAll([
12
                './img/offline.svg',
13
               offlineUrl
14
           1);
15
        })
16
17
      );
     });
18
```

service-worker-add-offline-page.js hosted with \tilde{\pi}\text{by GitHub}

view raw

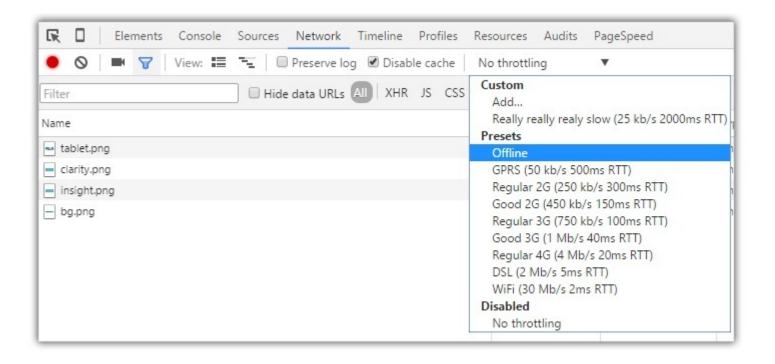
### **Detectar navegación ONLINE | OFFLINE. El evento FETCH.**



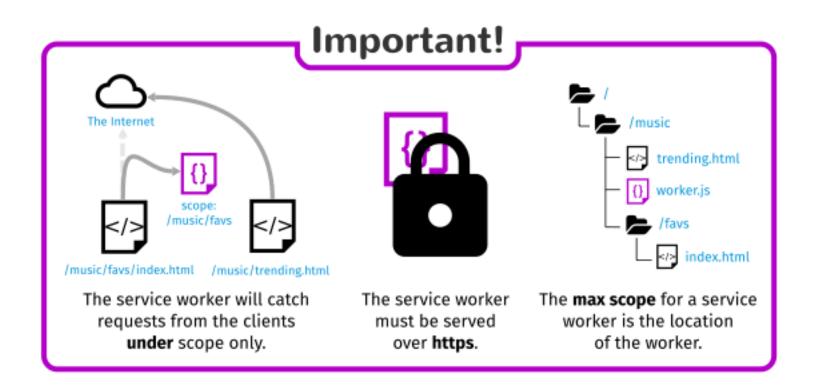
#### Si el usuario intenta navegar sin conexión, devolver página cacheada

```
this.addEventListener('fetch', event => {
       // request.mode = navigate isn't supported in all browsers
 2
       // so include a check for Accept: text/html header.
       if (event.request.mode === 'navigate' || (event.request.method === 'GET' && event.request
 4
             event.respondWith(
 5
               fetch(event.request.url).catch(error => {
 6
                   // Return the offline page
                   return caches.match(offlineUrl);
 8
               })
 9
         );
10
11
       else{
12
             // Respond with everything else if we can
13
             event.respondWith(caches.match(event.request)
14
                              .then(function (response) {
15
                              return response | fetch(event.request);
16
                          })
17
                 );
18
19
     });
20
                                                                                         view raw
service-worker-offline-page.js hosted with Pby GitHub
```

### Simulando un dispositivo OFFLINE



### Achtung! Erne! Warning! Cuidado!

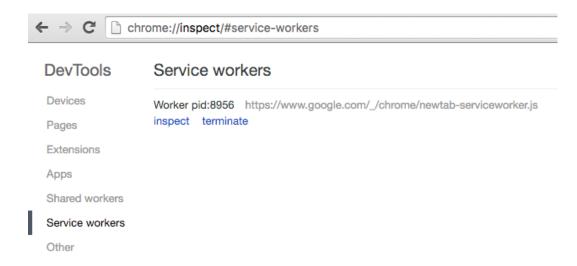




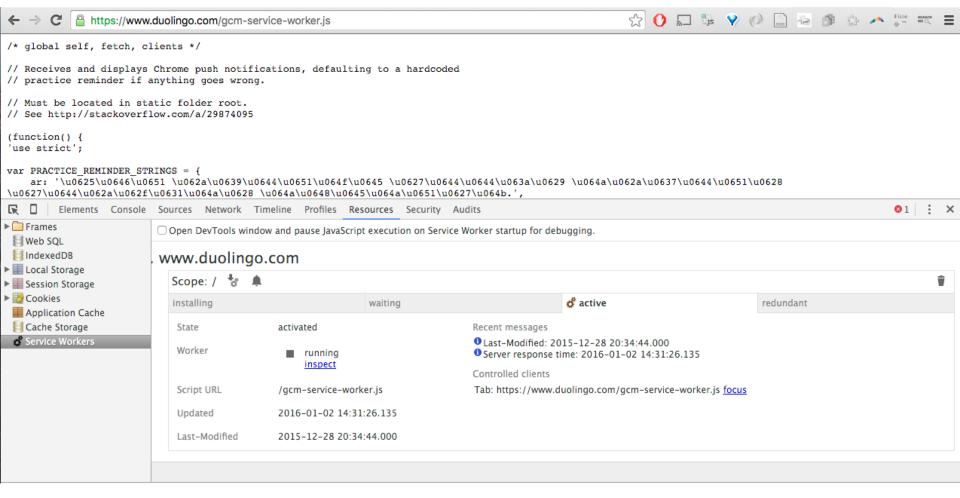
## DEBUGGING

← → G	chrome://serviceworker-internals
Scope: https://www.duolingo.com/ Registration ID: 6 Active worker: Installation Status: ACTIVATED Running Status: STOPPED Script: https://www.duolingo.com/gcm-service-worker.js Version ID: 731 Renderer process ID: -1 Renderer thread ID: -1 DevTools agent route ID: -2 Log:	
Unregister Start  Scope: https://www.google.com/_chrome/ Registration ID: 1 Active worker: Installation Status: ACTIVATED	
Script: https Version ID: 1 Renderer pro Renderer thr	tus: RUNNING :://www.google.com/_/chrome/newtab-serviceworker.js 1904 pocess ID: 1175 read ID: 22559 ent route ID: 3
Stop I	Push Inspect









### Referencias Utilizadas

http://deanhume.com/home/blogpost/create-a-really--really-simple-offline-page-using-service-workers/10135 https://www.chromium.org/blink/serviceworker/service-worker-faq http://blog.lamplightdev.com/2015/01/06/A-Simple-ServiceWorker-App/ https://developer.mozilla.org/en-US/docs/Web/API/Service\_Worker\_API/Using\_Service\_Workers https://auth0.com/blog/2015/10/30/creating-offline-first-web-apps-with-service-workers/ https://infrequently.org/14/html5devconf\_oct/#39

## Cosas que se han quedado en el tintero

https://developers.google.com/web/fundamentals/getting-started/push-notifications/?hl=en