Desarrollo front-end avanzado PEC 5

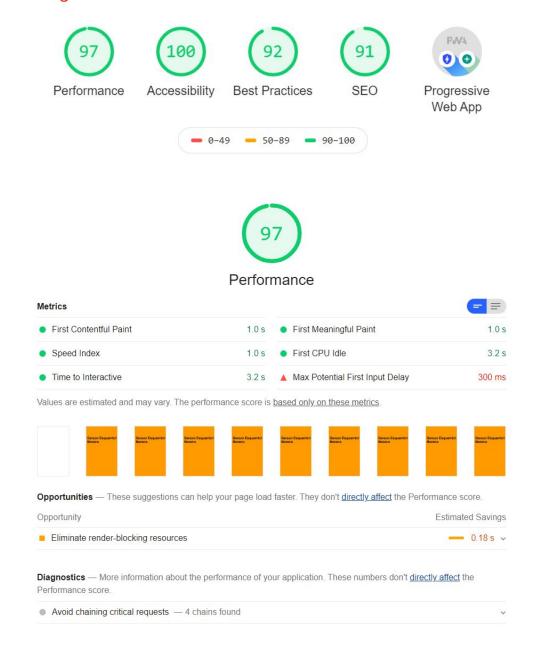
Gerson Esquembri Moreno

12 de enero de 2020

Link de la PWA

https://gersonpwa1.firebaseapp.com/

Capturas LightHouse



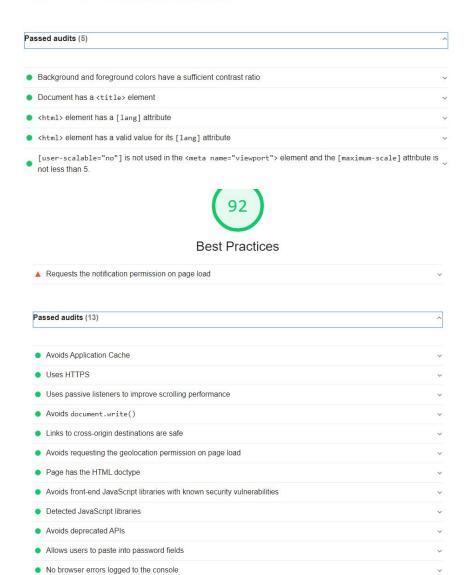


Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Additional items to manually check (11) — These items address areas which an automated testing tool cannot cover.

Learn more in our guide on conducting an accessibility review.



Displays images with correct aspect ratio

Progressive Web App

These checks validate the aspects of a Progressive Web App. <u>Learn more</u>.

Fast and reliable Page load is fast enough on mobile networks Current page responds with a 200 when offline start_url responds with a 200 when offline Installable Uses HTTPS Registers a service worker that controls page and start_url Web app manifest meets the installability requirements PWA Optimized Redirects HTTP traffic to HTTPS Configured for a custom splash screen Sets a theme color for the address bar. Content is sized correctly for the viewport Has a <meta name="viewport"> tag with width or initial-scale Contains some content when JavaScript is not available ▲ Does not provide a valid apple-touch-icon

Elaboración del Service Worker

```
EXPLORER
                                o index.html
                                                JS sw.js

✓ OPEN EDITORS

                                src > JS sw.js > ...
                                       var cacheName = 'hello-world-page';
 GROUP 1
                                       var filesToCache = [
    o index.html src
 X JS sw.js src
 GROUP 2
                                         '/hello-world.css'
    # hello-world.css src
/ EJERCICIO1
                                       self.addEventListener('install', function(e) {
                                         console.log('[ServiceWorker] Install');
 > .firebase
                                         e.waitUntil(

✓ src

                                           caches.open(cacheName).then(function(cache) {
 # hello-world.css
                                             console.log('[ServiceWorker] Caching app shell');
 index.html
                                             return cache.addAll(filesToCache);
 JS sw.js
 .firebaserc
 gitignore
                                       self.addEventListener('activate', event => {
 🐌 firebase.json
                                        event.waitUntil(self.clients.claim());
                                       self.addEventListener('fetch', event => {
                                         event.respondWith(
                                           caches.match(event.request, {ignoreSearch:true}).then(response => {
                                             return response || fetch(event.request);
```

```
Service Worker Registered

[ServiceWorker] Install

[ServiceWorker] Caching app shell

Navigated to <a href="https://gersonpwal.firebaseapp.com/">https://gersonpwal.firebaseapp.com/</a>

Service Worker Registered

Navigated to <a href="https://gersonpwal.firebaseapp.com/">https://gersonpwal.firebaseapp.com/</a>

Service Worker Registered

Navigated to <a href="https://gersonpwal.firebaseapp.com/">https://gersonpwal.firebaseapp.com/</a>

Service Worker Registered

(index):39
```

Manifest.json

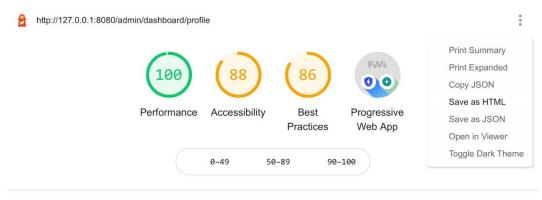
```
EXPLORER
                                                                    {} manifest.json •
                                                   JS SW.js

✓ OPEN EDITORS 1 UNSAVED

                                  {} manifest.json > ...
  GROUP 1
                                           "name": "Hello World PWA",
    o index.html src
                                           "short name": "Hi",
    JS SW.JS STC
                                           "icons": [{
  • {} manifest.json
                                              "src": "icons/icon-128x128.png",
  GROUP 2
                                                "sizes": "128x128",
    # hello-world.css src
                                                "type": "image/png"

✓ EJERCICIO1

                                                "src": "icons/icon-144x144.png",
  > .firebase
  > img
                                                "type": "image/png"
  ∨ src
  # hello-world.css
                                                "src": "icons/icon-152x152.png",
  index.html
                                                "type": "image/png
  JS sw.js
 .firebaserc
                                                "src": "icons/icon-192x192.png",
  .gitignore
                                                "sizes": "192x192",
 irebase.json
                                                "type": "image/png"
 {} manifest.json
                                                "src": "icons/icon-512x512.png",
                                                "sizes": "512x512",
                                                "type": "image/png"
                                           ],
"start_url": "/index.html",
:4": "103953800
                                           "gcm_sender_id": "103953800507",
                                           "display": "standalone",
                                           "background_color": "#FF9800",
                                           "theme color": "#FF9800"
```





Performance





These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Names and labels — These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

▲ Buttons do not have an accessible name Additional items to manually check (11) — These items address areas which an automated testing tool cannot cover. Learn \vee more in our guide on conducting an accessibility review. Passed audits (13) Not applicable (21)



Best Practices

▲ Does not use HTTP/2 for all of its resources — 2 requests not served via HTTP/2 ▲ Browser errors were logged to the console Passed audits (13)



Progressive Web App

These checks validate the aspects of a Progressive Web App. Learn more.

Fast and reliable

Page load is fast enough on mobile networks

	Current page responds with a 200 when offline	~
	start_ur1 responds with a 200 when offline	~
	Installable	
	Uses HTTPS	~
	Registers a service worker that controls page and start_url	~
	Web app manifest meets the installability requirements	~
	PWA Optimized	
A	Does not redirect HTTP traffic to HTTPS	~
	Configured for a custom splash screen	~
	Sets a theme color for the address bar.	~
	Content is sized correctly for the viewport	~
	Has a <meta name="viewport"/> tag with width or initial-scale	~
	Contains some content when JavaScript is not available	~
A	Does not provide a valid apple-touch-icon	~
	ditional items to manually check (3) — These checks are required by the baseline PWA Checklist but are not omatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.	~

Runtime Settings

URL	http://127.0.0.1:8080/admin/dashboard/profile
Fetch time	Jan 12, 2020, 5:47 PM GMT+1
Device	Emulated Desktop
Network throttling	Provided by environment
CPU throttling	Provided by environment
User agent (host)	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.117 Safari/537.36
User agent (network)	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3694.0 Safari/537.36 Chrome-Lighthouse
CPU/Memory Power	364

• Package.json: se añaden varias dependencias, y las configuraciones:

```
"compile:server": "webpack --config webpack.server.config.js --progress
--colors",

"serve:ssr": "node dist/server",

"build:ssr": "npm run build:client-and-server-bundles && npm run
compile:server",

"build:client-and-server-bundles": "ng build --prod && ng run
UOCJob:server:production --bundleDependencies all"
```

- **Server.ts:** servidor NodeJS Express.
- Webpack.server.config.js: configuración de webpack para empaquetar el servidor de Angular Universal.
- **Main.ts:** se modifica para que el navegador no haga *bootstrapping* de la aplicación hasta que las páginas renderizadas por Universal no estén cargadas del todo.

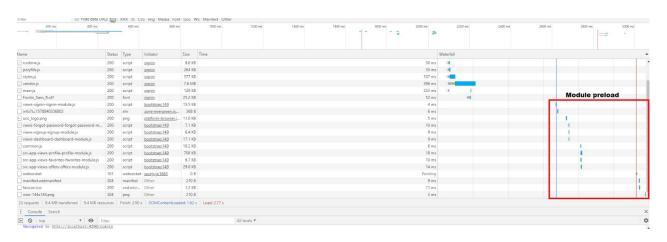
```
document.addEventListener('DOMContentLoaded', () => {
    platformBrowserDynamic().bootstrapModule(AppModule)
    .catch(err => console.error(err));
    });
```

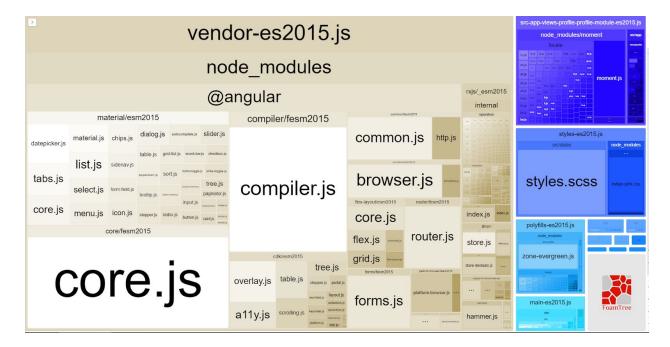
- Main.server.ts: en este fichero se exporta AppServerModule, que es el punto de entrada para Angular Universal.
- **Tsconfig.server.json:** le indica al compilador dónde puede encontrar el módulo de entrada de la aplicación de Universal.

- App.module.ts: se ha modificado para que ejecute el método estático
 .withServerTransition, del módulo importado BrowserModule. Esta llamada le indica al navegador que el cliente será modificado con la versión del servidor en algún momento.
- App.server.module.ts: este es el módulo raíz de la versión del servidor. Importa
 AppModule y el ServerModule de @angular/platform-server. Arranca el mismo
 AppComponent que AppModule. Es el punto de entrada para la aplicación de Angular Universal.

Link a la página en GitHub: https://gersonesmo.github.io/PEC5PWA/signin

Ejercicio 6





Como podemos observar, el módulo que más espacio ocupa es **core.js** (1.51MB). El paquete de módulos de @angular ocupa en total 6.11MB, que dada la envergadura de la aplicación, es un tamaño bastante razonable. Dentro de los módulos de @angular, también se observa que **angular material** es de los módulos que más ocupa (1.27MB). Fuera de los módulos de @angular, lo que más ocupa son los estilos *scss*, que tal vez, después de analizar los estilos, se podrían simplificar bastante, aunque el tamaño del fichero transpilado es de 400KB, que no es demasiado grande. Esto también se debe a que la mayoría de los estilos utilizados en la aplicación se toman de *angular material*.