

APLICACIONES WEB PROGRESIVAS

13/05/2020

Grupo 2

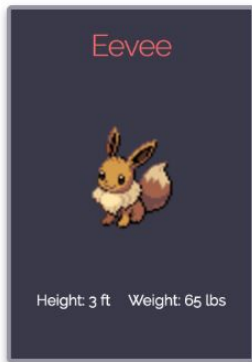
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POKÉMON DATABASE DEMO

¿POR QUÉ POKÉMON?

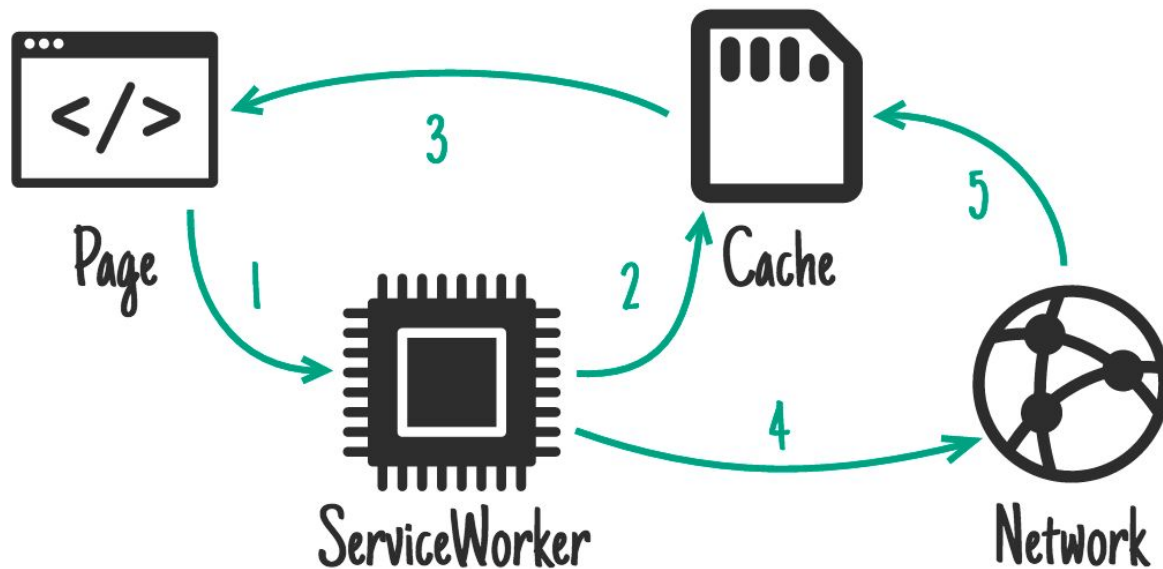
- PokeAPI



```
"stats": [  
  {  
    "base_stat": 45,  
    "effort": 0,  
    "stat": {  
      "name": "speed",  
      "url": "https://pokeapi.co/api/v2/stat/6/"  
    }  
  },  
  {  
    "base_stat": 65,  
    "effort": 0,  
    "stat": {  
      "name": "special-defense",  
      "url": "https://pokeapi.co/api/v2/stat/5/"  
    }  
  },  
  {  
    "base_stat": 65,  
    "effort": 1,  
    "stat": {  
      "name": "special-attack",  
      "url": "https://pokeapi.co/api/v2/stat/4/"  
    }  
  }  
],
```

FUNCIÓN OFFLINE

- Service Worker para caché



IMPLEMENTACIÓN CACHE

- Service Worker listener

```
this.addEventListener('install', async function() {  
  const cache = await caches.open(CACHE_NAME);  
  cache.addAll([  
    '/index.html',  
    '/css/app.css',  
    '/app.js',  
  ])  
});
```

IMPLEMENTACIÓN CACHE

- SW fetch listener

```
self.addEventListener('fetch', event => {
  const getCustomResponsePromise = async () => {
    console.log(`URL ${event.request.url}`, `location origin ${location}`);
    try {
      // Try to get the cached response
      const cachedResponse = await caches.match(event.request);
      if (cachedResponse) {
        // Return the cached response if present
        console.log(`Cached response ${cachedResponse}`);
        return cachedResponse;
      }
      // Get the network response if no cached response is present
      const netResponse = await fetch(event.request);
      console.log(`adding net response to cache`);
      // Add the network response to the cache
      let cache = await caches.open(CACHE_NAME);
      // We must provide a clone of the response here
      cache.put(event.request, netResponse.clone());
      // return the network response
      return netResponse;
    } catch (err) {
      console.error(`Error ${err}`);
      throw err;
    }
  }
  // Override the default fetch behavior
  event.respondWith(getCustomResponsePromise());
});
```

IMPLEMENTACIÓN CACHE

- Botón de búsqueda → fetch API

```
async function onSearchClickAsync() {
  let pokemonId = document.querySelector("#search_input").value;
  try {
    const response = await fetch(`${API_POKEMON}/${pokemonId}`);
    if (!response.ok) {
      return;
    }
    let pokemon = await response.json();
    pokemon.name = pokemon.forms[0].name[0].toUpperCase() + pokemon.forms[0].name.slice(1);
    buildPokemonMarkup(pokemon);
    updateHistory(pokemon);
  } catch (err) {
    console.error(`error ${err}`);
  }
}
```

IMPLEMENTACIÓN CACHE

- Se almacena en local storage

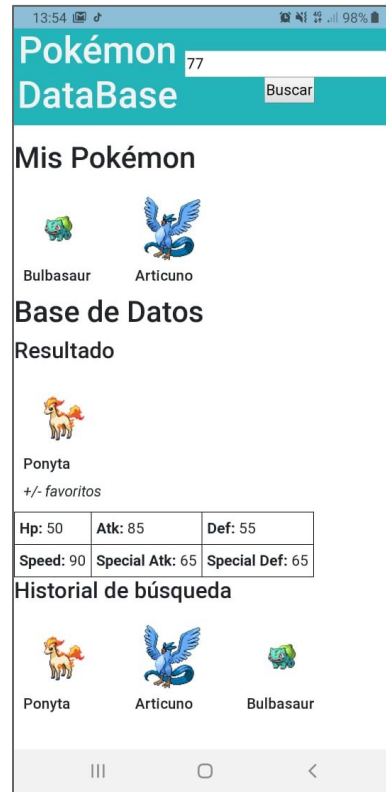
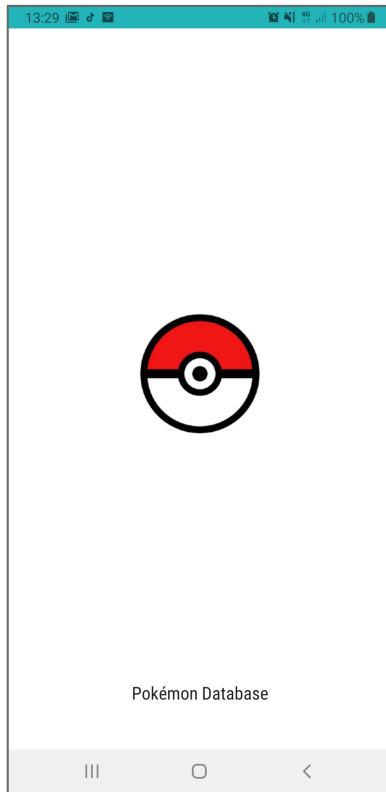
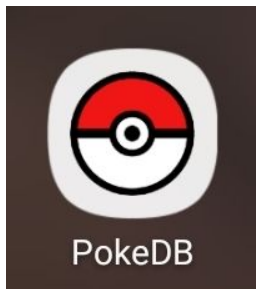
```
localStorage.setItem(HISTORY_STORAGE_KEY, JSON.stringify(searchHistory));
```


IMPLEMENTACIÓN CACHE

- Local storage persiste

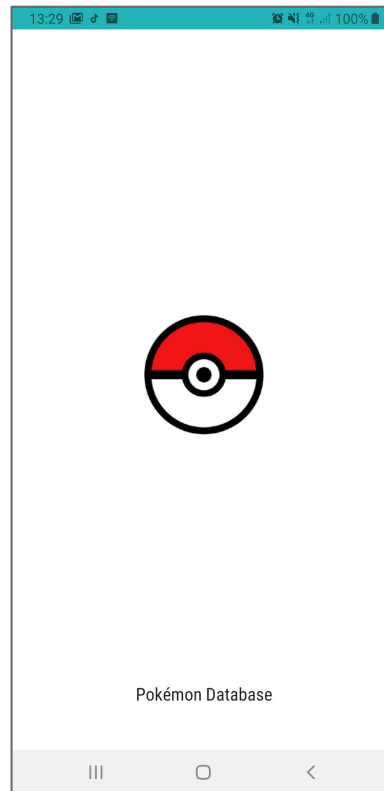
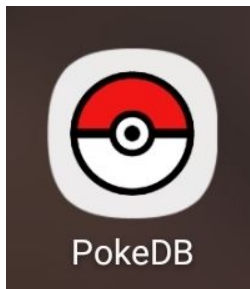
```
async function onLoadAsync() {  
  // Load the history from cache  
  let history = getItem(HISTORY_STORAGE_KEY);  
  if (history !== null) {  
    // Set the searchHistory array and update the display  
    searchHistory = history;  
    searchHistory.forEach(updateHistory);  
  }  
  
  // Load the favorites from cache  
  let favorites = getItem(FAVORITES_STORAGE_KEY);  
  if (favorites !== null) {  
    // Set the favoritesList array and update the display  
    favoritesList = favorites;  
    updateFavorites();  
  }  
}
```

HOME PAGE



MANIFEST.JSON

```
{
  "name": "Pokémon Database",
  "short_name": "PokeDB",
  "lang": "en-US",
  "start_url": "/",
  "display": "standalone",
  "theme_color": "#22b4b9",
  "icons": [
    {
      "src": "/icons/pokeball_192.png",
      "type": "image/png",
      "sizes": "192x192"
    },
    {
      "src": "/icons/pokeball_512.png",
      "type": "image/png",
      "sizes": "512x512"
    }
  ]
}
```



DEPLOY CON FIREBASE

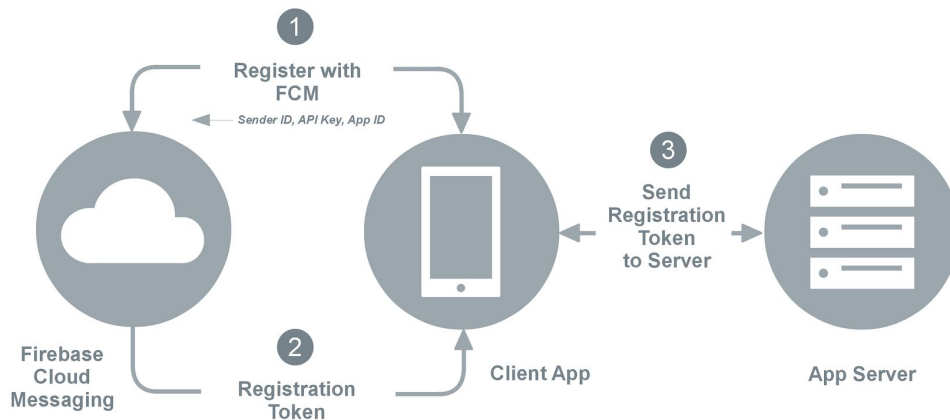
- Firebase Hosting
- Sencillo
- Alta compatibilidad con los servicios que ofrecen



firebase

NOTIFICACIONES CON FIREBASE

- Push API
- Firebase Cloud Messaging
- `firebase-messaging-sw.js`
 - Se despliegan los mensajes Push en el background
 - Se consigue el Registration Token del cliente



ANEXOS

- Desempeño Lighthouse

