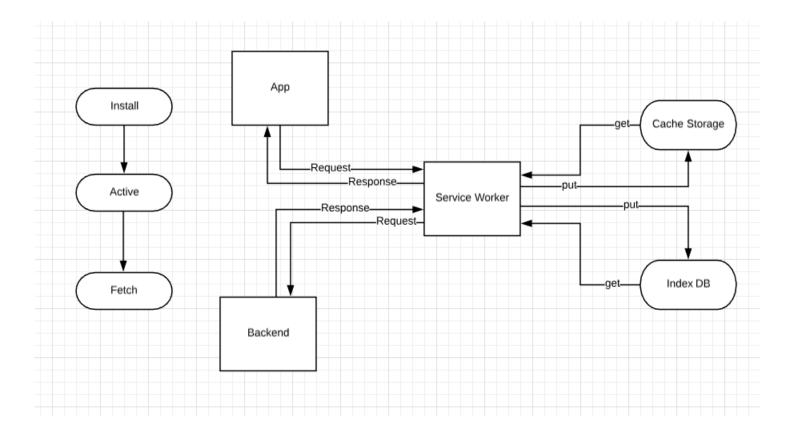
OFFLINE WEB APPS - WITH A SERVICE WORKER https://przemyslawjanpietrzak.github.io/przemyslawjanpietrzak.github.io/offline-web-apps/dist



SERVICE WORKER PRECACHE

```
// sw-precache.config.js
module.exports = {
    staticFileGlobs: [
        'static/css/**.css',
        'static/*.html',
        'static/images/**.*',
        'static/js/**.js'
    ],
    stripPrefix: 'static/',
    runtimeCaching: [{
        urlPattern: /this\.is\.a\.regex/,
        handler: 'networkFirst'
    }]
};
```

SERVICE WORKER PRECACHE

```
// sw.js
let precacheConfig = [
    ["background.jpg","eb661a7bfd811daa1ffefe7d527333ab"],
    ['index.js', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['sw.js', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['index.html', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['fonts.css', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['material.css', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['material.min.js', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['material.indigo-pink.min.css', 'eb661a7bfd811daa1ffefe7d527333ab'],
    ['flUhRq6tzZclQEJ-Vdg-IuiaDsNcIhQ8tQ.woff2', 'eb661a7bfd811daa1ffefe7d527333ab'],
];
```

CACHE STATIC FILES

```
self.addEventListener('install', (event) => {
    event.waitUntil(
    caches
    .open(staticFilesCacheName)
    .then(cache => setOfCachedUrls(cache))
    .then(cachedUrls => Promise.all(
        Array.from(urlsToCacheKeys.values()).map((cacheKey) => {
        if (!cachedUrls.has(cacheKey)) (
            const request = new Request(cacheKey, (credentials: 'same-origin'));
        return fetch(request).then((response) => {
            if (!response.ok) {
                  throw new Error('Request for ${cacheKey} returned a response with status ${response.status}');
        }
        return cleanResponse(response)
        .then(responseToCache => cache.put(cacheKey, responseToCache));
        });
    }
    ))
    .then(() => self.skipWaiting())
}
```

ON FETCH



CACHE API



INVALIDATE CACHE IDB

```
const REQUEST_CACHE_LIFETIME = 60 * 60 * 1000;
const fetchAndSaveAPIRequest = request => fetch(event.request)
 .then(r => r.json())
   .then(response => idbClient
       .set(event.request.url, { response, timestamp: now() + REQUEST_CACHE_LIFETIME })
       .then(_ => createResponse(response))
if (event.request.url.includes('/api/')) {
   event.respondWith(idbClient
     .then(keys => {
      if (keys.includes(event.request.url)) {
          .get(event.request.url)
          .then(({ response, timestamp }) => {
            if (timestamp > now() || !navigator.onLine) {
              return createResponse (response);
             return fetchAndSaveAPIRequest(event.request);
       return fetchAndSaveAPIRequest(event.request);
```

REFRESH DATA

```
self.addEventListener('activate', (event) => {
  let setOfExpectedUrls = new Set(urlsToCacheKeys.values());

event.waitUntil(
  caches
    .open(cacheName)
    .then((cache) => cache.keys())
    .then((cache) => Promise.all(
        existingRequests => Promise.all(
        existingRequests.map((existingRequest) => (
        if (!setOfExpectedUrls.has(existingRequest.url)) {
            return cache.delete(existingRequest);
        }
        })
    ))
    .then(() => self.clients.claim())
);
});
```

LIE-FI

```
self.addEventListener('fetch', (event) => {
  event.respondWith(Promise(resolve => {
    setTimeout(() => {
      getFromCache.then(resolve)
    }, TIMEOUT)

  fetch(url).then(resolve)
})

)
));
```

CHECK NETWORK STATUS

```
if (navigator.onLine) {
  console.log('online');
} else {
  console.log('offline');
}

window.addEventListener('offline', _ => { console.log('offline'); });
window.addEventListener('online', _ => { console.log('online'); });
```

WEBPACK HELPERS



LINKS

- https://developer.mozilla.org/en-US/docs/Web/API/Service_Worker_API
 https://github.com/GoogleChromeLabs/sw-precache

THANK YOU;*