

# Experiment No 9

## Code:

```
const CACHE_NAME = "pwa-cache-v1";
const ASSETS_TO_CACHE = [
    "/PWA/",
    "/PWA/index.html",
    "/PWA/styles.css",
    "/PWA/app.js",
    // Add other assets to cache
];

// Install event - Cache important assets
self.addEventListener("install", (event) => {
    console.log("✓ Service Worker Installed");
    event.waitUntil(
        caches.open(CACHE_NAME).then((cache) => {
            console.log("✓ Caching assets");
            return cache.addAll(ASSETS_TO_CACHE);
        })
    );
});

// Activate event - Cleanup old caches
self.addEventListener("activate", (event) => {
    console.log("✓ Service Worker Activated");
    event.waitUntil(
        caches.keys().then((cacheNames) =>
            Promise.all(
                cacheNames.map((cache) => {
                    if (cache !== CACHE_NAME) {
                        console.log("🗑 Deleting old cache:", cache);
                        return caches.delete(cache);
                    }
                })
            )
        )
    );
});

// Fetch event - Serve cached files when offline
self.addEventListener("fetch", (event) => {
    console.log("Fetching:", event.request.url);
    event.respondWith(
        caches
```

```
.match(event.request)
    .then((response) => response || fetch(event.request))
    .catch(() => caches.match("/PWA/index.html")) // Fallback to
index.html if offline
);
});

// Sync event - Background sync for failed requests
self.addEventListener("sync", (event) => {
  if (event.tag === "sync-cart") {
    event.waitUntil(syncCart());
  }
});

async function syncCart() {
  // Logic to sync cart data with the server
  console.log("⌚ Syncing cart data with the server");
  // Example: Fetch unsynced cart data from IndexedDB and send to
server
}

// Push event - Handle push notifications
self.addEventListener("push", (event) => {
  const data = event.data.json();
  console.log("🔔 Push notification received:", data);

  const options = {
    body: data.body,
    icon: "/PWA/icons/icon-192x192.png",
    badge: "/PWA/icons/icon-192x192.png",
  };

  event.waitUntil(
    self.registration.showNotification(data.title, options)
  );
});
```

<input checked="" type="checkbox"/>	Service Worker Installed
<input checked="" type="checkbox"/>	Caching assets
<input checked="" type="checkbox"/>	Service Worker Activated
<input checked="" type="checkbox"/>	Fetching: <a href="http://127.0.0.1:5500/PWA/index.html">http://127.0.0.1:5500/PWA/index.html</a>
<input checked="" type="checkbox"/>	Fetching: <a href="http://127.0.0.1:5500/PWA/styles.css">http://127.0.0.1:5500/PWA/styles.css</a>

**Featured Products**



Wireless Headphones  
\$79.99

Add to Cart

Fetchings:

- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/js.js>
- ⚠️ Service Worker was updated because "Update on reload" was checked in the DevTools Application panel.
- ✓ Service Worker Installed
- ✓ Caching assets
- ✓ Service Worker Activated
- Fetching: <http://127.0.0.1:5500/PWA/index.html>
- Fetching: <http://127.0.0.1:5500/PWA/styles.css>
- Fetching: <https://images.unsplash.com/photo-1505740420928-5e560c06d30e?ixlib=rb-4.0.3&auto=format&fit=crop&w=500&q=80>
- Fetching: <https://images.unsplash.com/photo-1553062407-98eeb64c6a62?ixlib=rb-4.0.3&auto=format&fit=crop&w=500&q=80>
- Fetching: <https://images.unsplash.com/photo-1579586337278-3befd40fd17a?ixlib=rb-4.0.3&auto=format&fit=crop&w=500&q=80>
- Fetching: <https://images.unsplash.com/photo-1608043152269-423dbba4e7e1?ixlib=rb-4.0.3&auto=format&fit=crop&w=500&q=80>
- Fetching: <http://127.0.0.1:5500/PWA/app.js>

Navigated to <http://127.0.0.1:5500/PWA/index.html>

Fetchings:

- Fetching: [http://127.0.0.1:5500/PWA/images/shop\\_icon144.png](http://127.0.0.1:5500/PWA/images/shop_icon144.png)
- Fetching: <http://127.0.0.1:5500/PWA/images/hero-bg.jpg>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/js.js>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/dom.js>

**Featured Products**



Fetchings:

- Group similar messages in console
- Show CORS errors in console

⚠️ NOTIFICATION PERMISSION DENIED. PLEASE ENABLE NOTIFICATIONS IN YOUR BROWSER SETTINGS.

Fetchings:

- Fetching: [http://127.0.0.1:5500/PWA/images/shop\\_icon144.png](http://127.0.0.1:5500/PWA/images/shop_icon144.png)
- Fetching: <http://127.0.0.1:5500/PWA/images/hero-bg.jpg>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/js.js>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/dom.js>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/js.js>
- Fetching: <chrome-extension://gppongmhjkpfnbhagomjfkannfbllamg/js/dom.js>

⚠️ Push notification received: {method: 'pushMessage', message: 'Hello!'}

<http://127.0.0.1:5500/PWA/>

Source [service-worker.js](#)  12

Received 3/20/2025, 8:09:35 PM

Status  #211 activated and is running [Stop](#)

Push `{ "method": "pushMessage", "message": "Hello!" }` [Push](#)

Sync `test-tag-from-devtools` [Sync](#)

Periodic sync `test-tag-from-devtools` [Periodic sync](#)

 Push notification received: ➔ `{method: 'pushMessage', message: 'Hello!'}`