

## Experiment N0 8

### Code:

```
// PWA functionality
let deferredPrompt;
const installBanner = document.getElementById('install-banner');
const installButton = document.getElementById('install-button');
const dismissButton = document.getElementById('dismiss-button');

// Check if service worker is supported
if ('serviceWorker' in navigator) {
  window.addEventListener('load', () => {
    navigator.serviceWorker.register('service-worker.js')
      .then(registration => {
        console.log('Service Worker registered with scope:', registration.scope);
      })
      .catch(error => {
        console.error('Service Worker registration failed:', error);
      });
  });
}

// Listen for the beforeinstallprompt event
window.addEventListener('beforeinstallprompt', (e) => {
  // Prevent Chrome 67 and earlier from automatically showing the prompt
  e.preventDefault();

  // Stash the event so it can be triggered later
  deferredPrompt = e;

  // Show the install banner
  installBanner.classList.remove('hidden');
});

// Install button click handler
installButton.addEventListener('click', () => {
  // Hide the install banner
  installBanner.classList.add('hidden');

  // Show the install prompt
  if (deferredPrompt) {
    deferredPrompt.prompt();

    // Wait for the user to respond to the prompt
    deferredPrompt.userChoice.then((choiceResult) => {
      if (choiceResult.outcome === 'accepted') {

```

```

        console.log('User accepted the install prompt');
    } else {
        console.log('User dismissed the install prompt');
    }

    // Clear the deferredPrompt variable
    deferredPrompt = null;
  });
}
});

// Dismiss button click handler
dismissButton.addEventListener('click', () => {
  installBanner.classList.add('hidden');
});

// E-commerce functionality
const cartCount = document.querySelector('.cart-count');
const addToCartButtons = document.querySelectorAll('.add-to-cart');

let cartItems = 0;

// Add to cart functionality
addToCartButtons.forEach(button => {
  button.addEventListener('click', () => {
    cartItems++;
    cartCount.textContent = cartItems;

    // Animate button
    button.textContent = 'Added!';
    button.style.backgroundColor = '#4caf50';

    setTimeout(() => {
      button.textContent = 'Add to Cart';
      button.style.backgroundColor = '#4285f4';
    }, 1000);
  });
});

// Service Worker installation and activation
self.addEventListener('install', (event) => {
  console.log('Service Worker installing.');
```

// Perform install steps

```

  event.waitUntil(
    caches.open('ecommerce-cache-v1')
      .then((cache) => {

```

```

        console.log('Opened cache');
        return cache.addAll([
            '/',
            '/index.html',
            '/styles.css',
            '/script.js',
            '/images/logo.png',
            '/images/shop_icon.png',
            // Add other assets to cache
        ]);
    })
};
});

self.addEventListener('activate', (event) => {
    console.log('Service Worker activating. ');
    const cacheWhitelist = ['ecommerce-cache-v1'];
    event.waitUntil(
        caches.keys().then((cacheNames) => {
            return Promise.all(
                cacheNames.map((cacheName) => {
                    if (cacheWhitelist.indexOf(cacheName) === -1) {
                        return caches.delete(cacheName);
                    }
                })
            );
        })
    );
});

self.addEventListener('fetch', (event) => {
    event.respondWith(
        caches.match(event.request)
            .then((response) => {
                // Cache hit - return response
                if (response) {
                    return response;
                }
                return fetch(event.request);
            })
    );
});

```

## Service workers

☐ Offline ☒ Update on reload ☐ Bypass for network

**http://127.0.0.1:5500/PWA/**

Source [service-worker.js](#)

Received 3/20/2025, 7:41:14 PM

Status ● #187 activated and is running Stop

Push  Push

Sync  Sync

Periodic sync  Periodic sync

Update Cycle

Version	Update Activity	Timeline
▶ #187	Install	<div></div>
▶ #187	Wait	<div></div>
▶ #187	Activate	<div></div>

## Featured Products



**Wireless Headphones**

**\$79.99**

Add to Cart

Fetching: <chrome-extension://gppongmhjknfbhagomjfkannfbllamg/js/js.js>

Service Worker was updated because "Update on reload" was checked in the DevTools Ap

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>

Fetching: <https://images.unsplash.com/photo-1553062407-98eeb64c6a62?ixlib=rb-4.0>

Fetching: <https://images.unsplash.com/photo-1579586337278-3befd40fd17a?ixlib=rb-4.0>

Fetching: <https://images.unsplash.com/photo-1608043152269-423dbba4e7e1?ixlib=rb-4.0>

Fetching: <http://127.0.0.1:5500/PWA/app.js>

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

Fetching: <http://127.0.0.1:5500/PWA/manifest.json>

Service Worker registered successfully: `ServiceWorkerRegistration {installing:`

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://gppongmhjknfbhagomjfkannfbllamg/js/js.js>

Fetching: <chrome-extension://gppongmhjknfbhagomjfkannfbllamg/js/dom.js>

✓ Service Worker Installed

✓ Caching assets

🔄 Fetching: <chrome-extension://gppongmhjkpfnbhagpmjfkannfbllamg/js/js.js>

✓ 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&fm=jpg&crop=entropy&w=1280&h=720&auto=format&q=80>

🔄 Fetching: <https://images.unsplash.com/photo-1553062407-98eeb64c6a62?ixlib=rb-4.0.3&fm=jpg&crop=entropy&w=1280&h=720&auto=format&q=80>


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

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🔄 Fetching: <https://images.unsplash.com/photo-1608043152269-423dbba4e7e1?ixlib=rb-4.0.3&fm=jpg&crop=entropy&w=1280&h=720&auto=format&q=80>

🔄 Fetching: <http://127.0.0.1:5500/PWA/app.js>

🔄 Fetching: <http://127.0.0.1:5500/PWA/manifest.json>

X Headers Payload Preview Response Initiator Timing Adblock	
▼ General	
Request URL:	https://images.unsplash.com/photo-1553062407-98eeb64c6a62?ixlib=
Request Method:	GET
Status Code:	● 200 OK (from service worker)
Referrer Policy:	strict-origin-when-cross-origin
▼ Response Headers	
Accept-Ranges:	bytes 
Access-Control-Allow-Origin:	*
Age:	2196289
Cache-Control:	public, max-age=31536000
Content-Length:	22112
Content-Type:	image/avif
Cross-Origin-Resource-Policy:	cross-origin
Date:	Thu, 20 Mar 2025 13:13:33 GMT
Last-Modified:	Sun, 23 Feb 2025 03:08:44 GMT
Server:	imgix
Timing-Allow-Origin:	*
Vary:	Accept, User-Agent
X-Cache:	HIT, HIT, HIT
X-Content-Type-Options:	nosniff
X-Imgix-Id:	18f9bb0d88bd11511c6c61c3e37b1008b5606d4e
X-Served-By:	cache-chi-kigq8000041-CHI, cache-tyo11976-TYO, cache-bom4739-B

Filter by path	
http://127.0.0.1:5500	
Origin	http://127.0.0.1:5500
Bucket name	default
Is persistent	No
Durability	relaxed
Quota	0 B
Expiration	None
#	Name
0	/PWA/
1	/PWA/app.js
2	/PWA/index.html
3	/PWA/styles.css