**Name- Vidhi Gulhane**

**D15B,15**

**PWA exp 9**

**Aim**: To implement Service worker events like fetch, sync and push for E-commerce PWA.

pwa-main > JS service-worker.js > ...

```
12  self.addEventListener('install', event => {
16    self.skipWaiting();
17  });
18
19  // Activate
20  self.addEventListener('activate', event => {
21    event.waitUntil(
22      caches.keys().then(keys =>
23        Promise.all(keys.map(key => {
24          if (key !== CACHE_NAME) {
25            return caches.delete(key);
26          }
27        }))
28      )
29    );
30    self.clients.claim();
31  });
32
33  // Fetch
34  self.addEventListener('fetch', event => {
35    event.respondWith(
36      caches.match(event.request).then(cachedResponse => {
37        // Serve from cache if available
38        if (cachedResponse) return cachedResponse;
39
40        // Try fetching from network
41        return fetch(event.request).catch(() => {
42          // Fallback only for navigation (HTML page loads)
43          if (event.request.mode === 'navigate') {
44            return caches.match('/offline.html');
45          }
46        });
47      })
48    );
49  });
```

Make the following changes to the service-worker.js

// Install Event: Cache assets

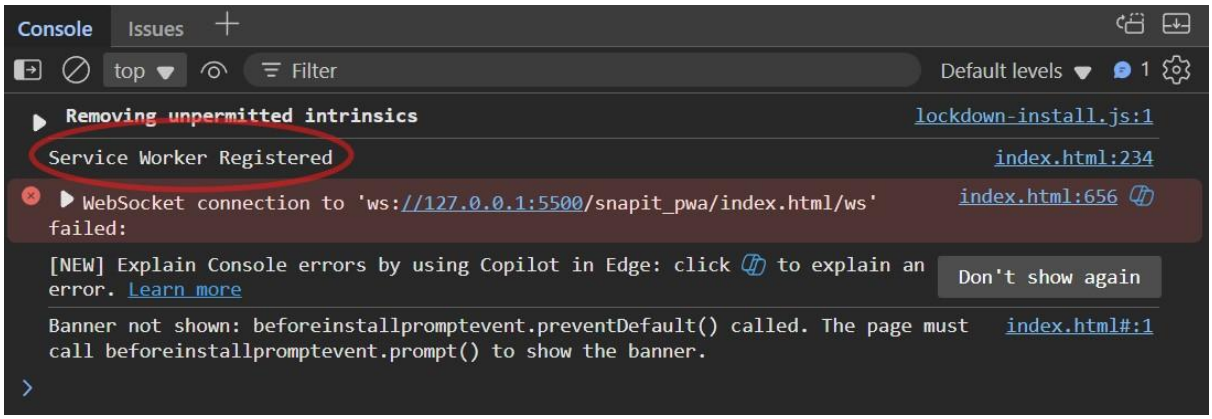
// Activate Event: Cleanup old caches

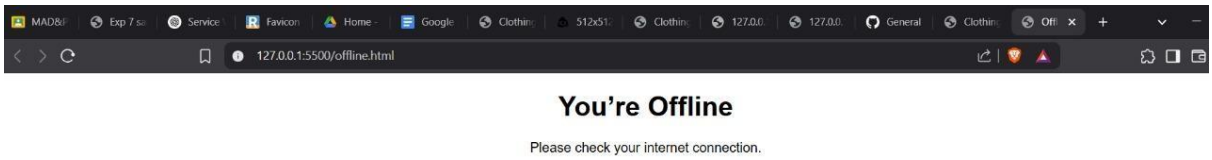
// Fetch Event: Supports both Cache-First & Network-First

// Sync Event: Retry sending data when online

// Function to send pending screenshots to the server

// Push Event: Display push notifications




Conclusion: We implemented the functionality of offline web cache capture so that in the absence of a stable internet connection, the app would display a generic waiting page.