

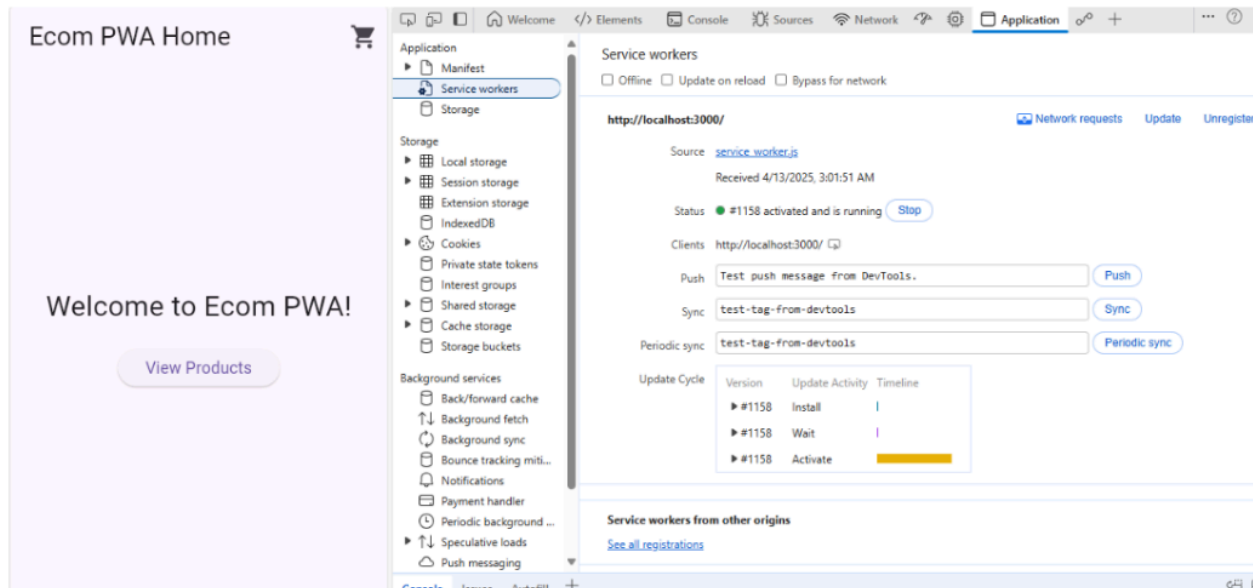
EXPERIMENT 8	
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Aim: To code and register a service worker, and complete the install and activation process for a new service worker for the E-commerce PWA.

Github link: <https://github.com/dimpledalwani/flutter-ecom-pwa1.git>

Theory: The **service worker** is a JavaScript file that runs in the background and plays a vital role in enabling offline capabilities, caching, and background processes in a **Progressive Web App (PWA)**. In an e-commerce PWA, coding and registering a service worker involves defining its lifecycle events—**install**, **activate**, and **fetch**—to handle asset caching and content delivery. The registration is done in the main JavaScript file using `navigator.serviceWorker.register()`. During the **install phase**, essential files are cached, and in the **activation phase**, old caches are cleared. This ensures that users can access the e-commerce site even without an internet connection, improving speed, reliability, and performance.

## Output:



Conclusion: In conclusion, successfully coding and registering a service worker, along with completing its install and activation phases, is a fundamental step in turning an e-commerce site into a PWA. It significantly enhances the app's functionality by enabling offline access, faster load times, and smoother user interactions. This strengthens user trust and retention, making the e-commerce platform more robust and user-friendly.