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### Experiment 08

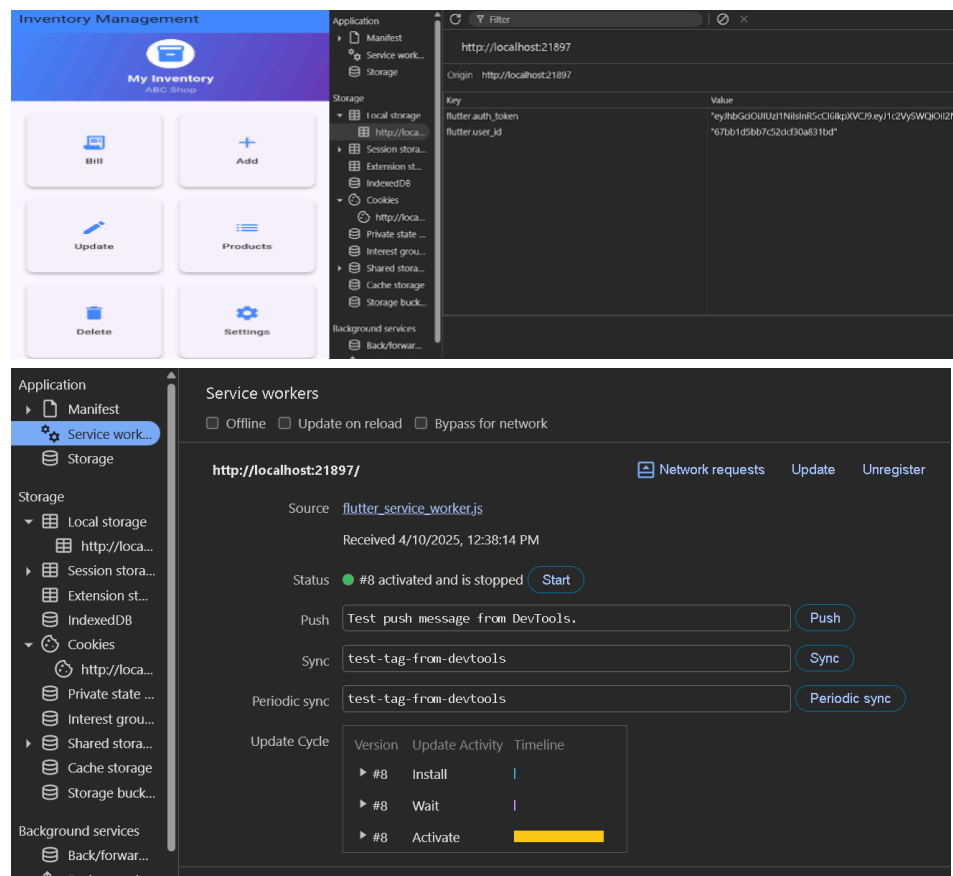
**Aim: To code and register a service worker, and complete the install and activation process for a new service worker for the E-commerce PWA**

#### Theory:

Service Worker is a background script that powers key PWA features like offline support, background sync, and push notifications. It goes through three phases:

- Install: Caches essential assets.
- Activate: Cleans up old caches.
- Fetch: Intercepts requests to serve cached content, enabling offline use.

#### Output:



#### Conclusion:

In this experiment, we implemented a Service Worker in our PWA to enhance performance and offline functionality. We successfully coded, registered, and completed the install and activate phases. This setup ensures that our app can cache key resources, load faster, and work in low or no network conditions, ultimately offering a more reliable and app-like experience to users.