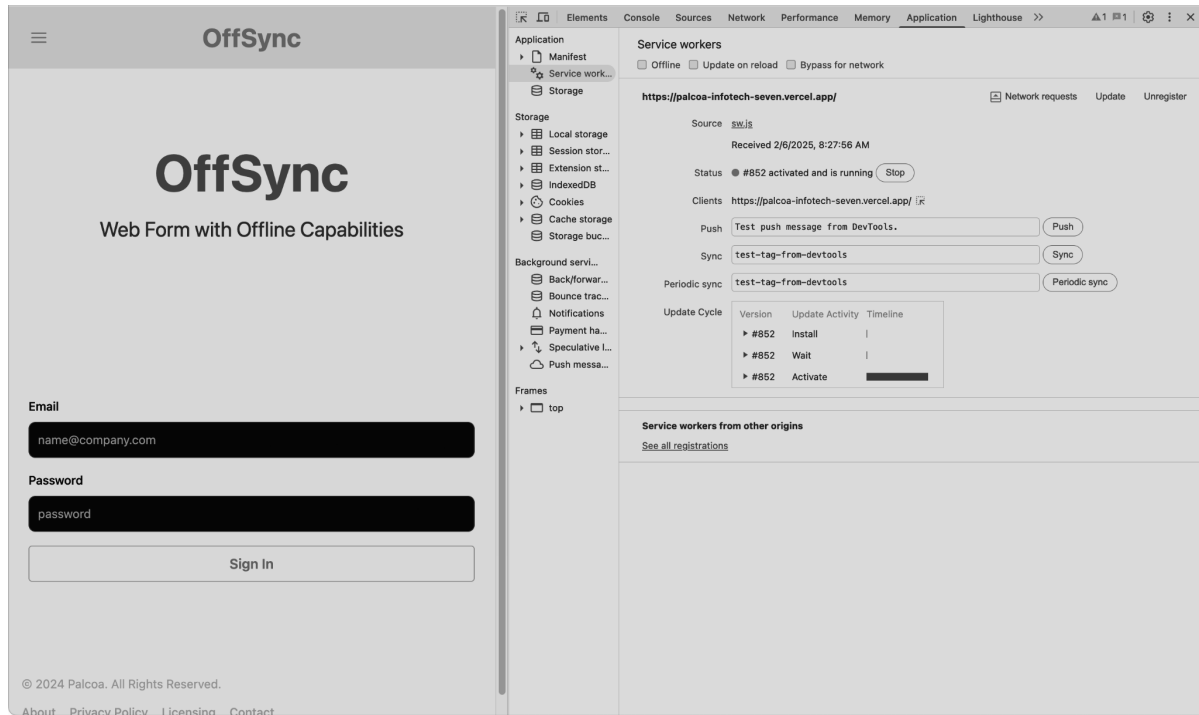| Experiment 8	
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Grade	

Aim: To code and register a service worker, and complete the install and activation process for a new service worker for the transactional doc PWA.

Theory:
A service worker is a background script that enables offline support, caching, and faster load times in a PWA. In an e-commerce PWA, it helps cache assets like HTML, CSS, and images, improving performance and reliability. The service worker is coded, registered in the main file, and then installed and activated by the browser. This process allows the app to work smoothly even when offline.

In our offsync pwa we need the service workers to run in background so that whenever the user goes offline they doesn't see loading screen and the service workers loads the data from the cache and continuously looks for the internet connectivity and whenever the response arrives it replaces the current output with whatever we conditionally set it to load.

Output:

Conclusion:

In this experiment, a service worker was successfully coded, registered, installed, and activated for the PWA. This enhanced the app's performance by enabling offline access, faster loading, and improved reliability, ensuring a seamless user experience even with limited or no internet connectivity.