PWA EXP No : R9 Aim: To implement service worken events like forch sync and push for Fundrusing PWA Theory: Fetch Event: you can track and Manage page network traffic with this event you can check existing cooke Man first and network first requests and return a reponse Mat you or want. · coche first: In Mis function if the received request has cached before the cached reponsed is networked to the page But if not, a new nerponse neguested from networks nonexhan · Network first: In this function firstly we can try getting an updated response from the network if This process completed successfully the new response will be cooked and returned. But if they process fails, we cheak whether the request has been deaned (cached begone not. If cache exists it is returned to the page but if not this is up to Message to the page Sync Event: Background Sync is a web API that is used to delay a procen with until the internet

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connection is stable we can adopt this deposit to the real world; there is on evail or application that work on he brown and w want to send on enail with the tool inter connection is broken while we are writing context and we didn't neceive it when comp The writing we click the send button Push Event: This is the Event that handles push notification that received from the server you can apply any method with received data of can handle purh notification with the event of this example conclusion: we implemented advanced surice wonte events shich now office better oppline handle outsmote background syne and real-time push notification. Thus enhances use Making it true push with Modern capabilities Gungun Panjabi D15B / 64

PWA EXP 9

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

U Morage	http://localhost5173/			Metwork requ
	Source dev-sw.)s			
Local storage	Received 4/	711/2025, 9:55:49 PM		
IEB Extension storage	Status • #78 activ	vated and is running (Stop)		
☐ IndexedDB Cookies	Clients http://locali	host5173/ 😡		
P private state tokens	Push Test push	h message from DevTools.	Push	
O Interest groups O Shared storage	Sync test-tag	-from-dovtools	(Sync)	
• Cache storage	Periodic sync	-from-devtools	Periodic 6	ync)
777	Update Cycle Version	Update Activity Timeline		
8ackground services Back/forv/ard cache	▶ #78	Install I		
11 Background fetch () Background sync	▶ #78	Walt I		
Bounce tracking mitigati	▶ •78	Activate E		
Notifications Payment handler				
Periodic background sync	Service workers from other ort	Diuz		
 ↑↓ Speculative loads △ Push messaging 	See an 15 Shahara			
Reporting API				
Frames				
• □				7 7 4

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.