

**Name: Nidhi Pednekar**  
**D15B / 43**  
**MPL PRACTICAL 8**

**Service Worker Registration: Handles installation and activation processes.**

### **1. Register the Service Worker**

1. Open `main.jsx` (or wherever React renders the app).
2. Import the `registerSW` function from `virtual:pwa-register`.
3. Call `registerSW()` to activate the service worker.
4. This ensures that the app works offline and updates correctly.

### **2. Verify PWA Installation**

1. Start the Vite development server.
2. Open Chrome DevTools (`F12`) → Go to **Application** → **Manifest**.
3. Check if the **Install** button appears in the address bar.
4. Install the app and check if it works like a standalone application.

### **3. Test Service Worker Activation**

1. Open Chrome DevTools → **Application** → **Service Workers**.
2. Check if the service worker is registered.
3. Enable **Offline mode** and refresh the page to test caching.
4. If the app loads, the service worker is working successfully.

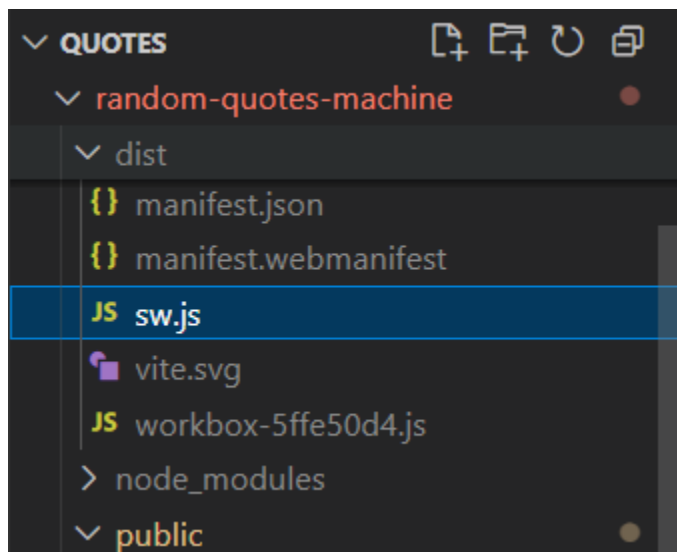
**npm run build**

**npm run preview**

Open the preview URL in your browser (usually `http://localhost:4173`)

```
> dev-dist
> node_modules
> public
▼ src
  ⚙ AddTask.jsx
  # App.css
  ⚙ App.jsx
  ⚙ ExpandableTask.jsx
  ⚙ main.jsx
  ⓘ Readme.txt
  ⚙ Search.jsx
  ⚙ Task.jsx
  ⚙ TaskList.jsx
  ⚙ .eslintrc.cjs
  ⚙ .gitignore
  < index.html
  {} package-lock.json
  {} package.json
  ⓘ README.md
  ⚡ vite.config.js

1  import React from "react";
2  import ReactDOM from "react-dom/client";
3  import App from "../App.jsx";
4
5  // Register the service worker with a prompt for updates
6  import { registerSW } from "virtual:pwa-register";
7
8  const updateSW = registerSW({
9    onNeedRefresh() {
10      if (confirm("New version available. Reload now?")) {
11        location.reload();
12      }
13    },
14    onOfflineReady() {
15      console.log("App is ready to work offline!");
16    },
17  });
18
19  ReactDOM.createRoot(document.getElementById("root")).render(
20    <React.StrictMode>
21      <App />
22    </React.StrictMode>
23  );
24
```



localhost:4173

have been impressed with the urgency of knowing. Knowing is not enough; we must apply. ; willing is not enough; we must do. ”

lo da Vinci

Change Qoute

Application

Manifest

Service workers

Storage

Storage

Local storage

Session storage

Extension storage

IndexedDB

Cookies

Private state tokens

Interest groups

Shared storage

Cache storage

Storage buckets

Background services

Back/forward cache

Background fetch

Background sync

Bounce tracking mitigati...

Notifications

Payment handler

Periodic background sync

Speculative loads

Push messaging

Service workers

☐ Offline ☐ Update on reload ☐ Bypass for network

http://localhost:4173/

Network requests

Update

Unregister

Source

sw.js

Received 8/4/2025, 9:49:59 pm

Status

#1108 activated and is running

Stop

Clients

http://localhost:4173/

Push

Test push message from DevTools.

Push

Sync

test-tag-from-devtools

Sync

Periodic sync

test-tag-from-devtools

Periodic sync

Update Cycle

Version	Update Activity	Timeline
#1108	Install	
#1108	Wait	
#1108	Activate	

Service workers from other origins

See all registrations