

Name:Nidhi Pednekar

Div:D15B

Roll No:43

Mpl Practical 7

Steps to Make Your Vite React App a PWA

1. Install Vite PWA Plugin

1. Open your terminal inside the project folder.

Run the command to install the PWA plugin:

npm install vite-plugin-pwa --save-dev

2. This plugin helps to add service workers and caching automatically.

2 Configure Vite for PWA

1. Open the `vite.config.js` file in your project.
2. Import and add the PWA plugin inside the `plugins` section.
3. Set up options like auto-updates, manifest, and caching.
4. Save the file and restart the Vite server.

3. Add manifest.json File

1. Go to the `public` folder in your project.
2. Create a new file named `manifest.json`.
3. Add details like the app name, icons, theme color, and display mode.
4. This file helps browsers recognize your app as installable.

4. Link the Manifest in index.html

1. Open `index.html` in the `public` folder.
2. Add the following line inside the `<head>` section:
<link rel="manifest" href="/manifest.json" />

This ensures the browser can detect and use the manifest file.

5. Register the Service Worker

1. Open `index.js` or `index.jsx`.

Import the service worker registration function:

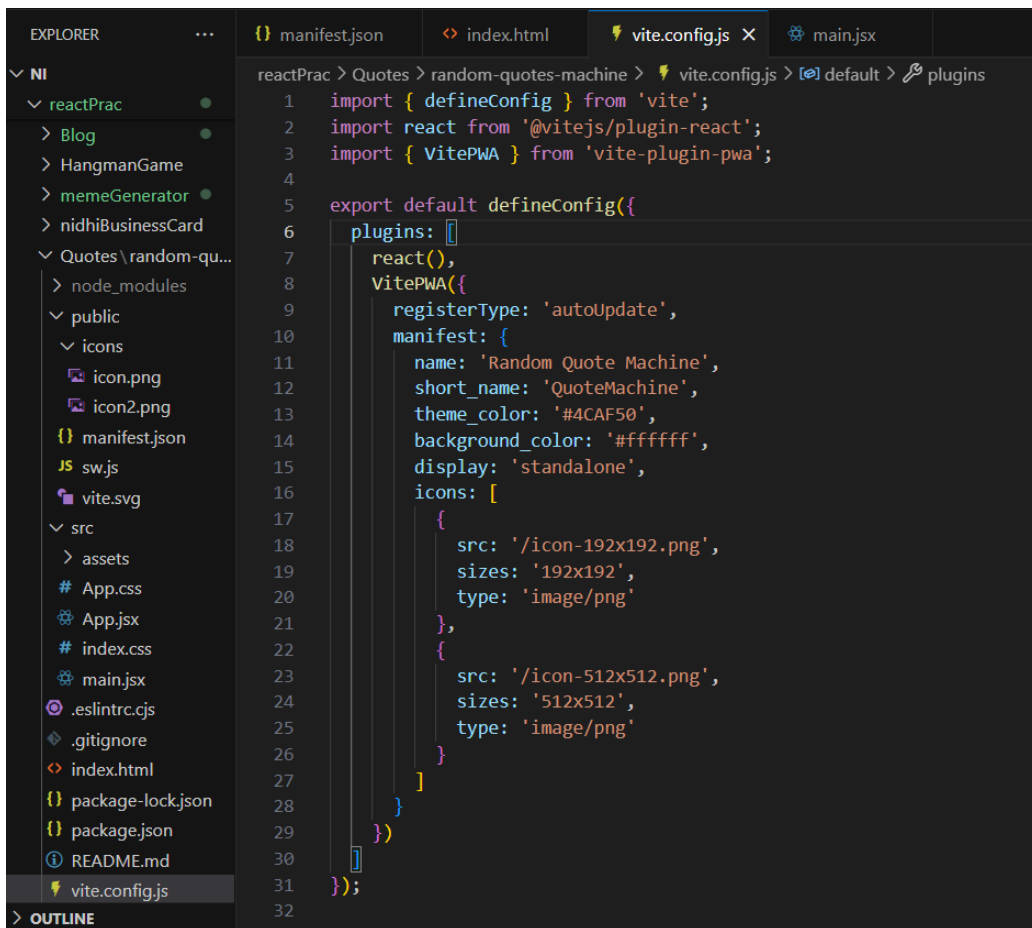
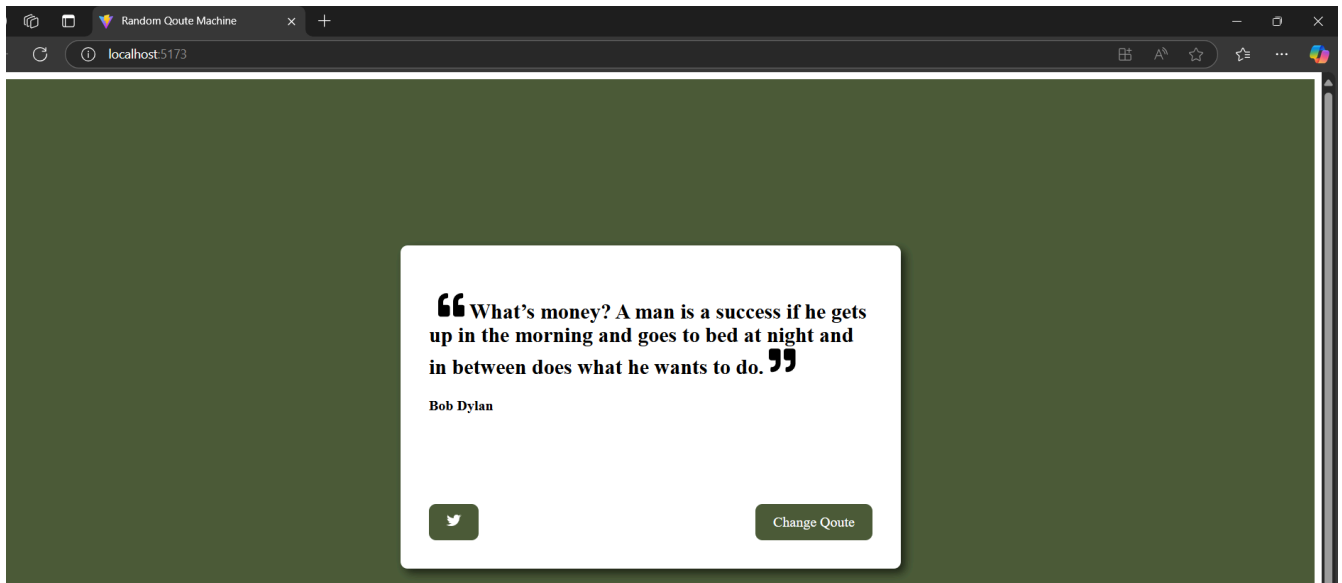
```
import { registerSW } from 'virtual:pwa-register';  
registerSW();
```

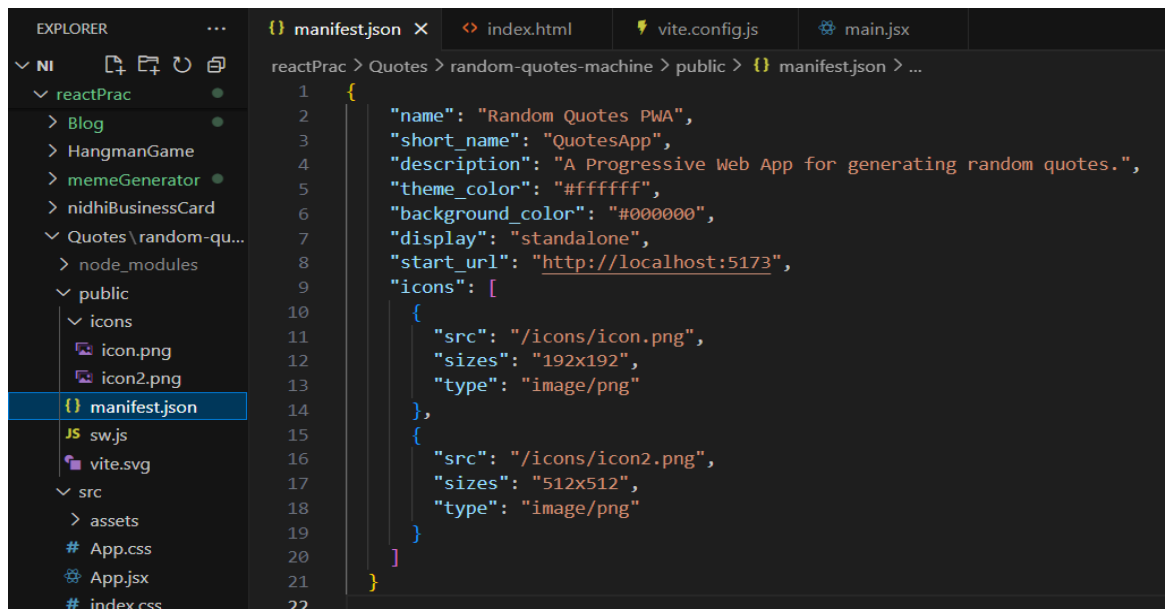
2. This ensures the service worker is registered when the app runs.

6. Restart the App & Verify PWA

Run the command to start the app:

```
npm run dev
```



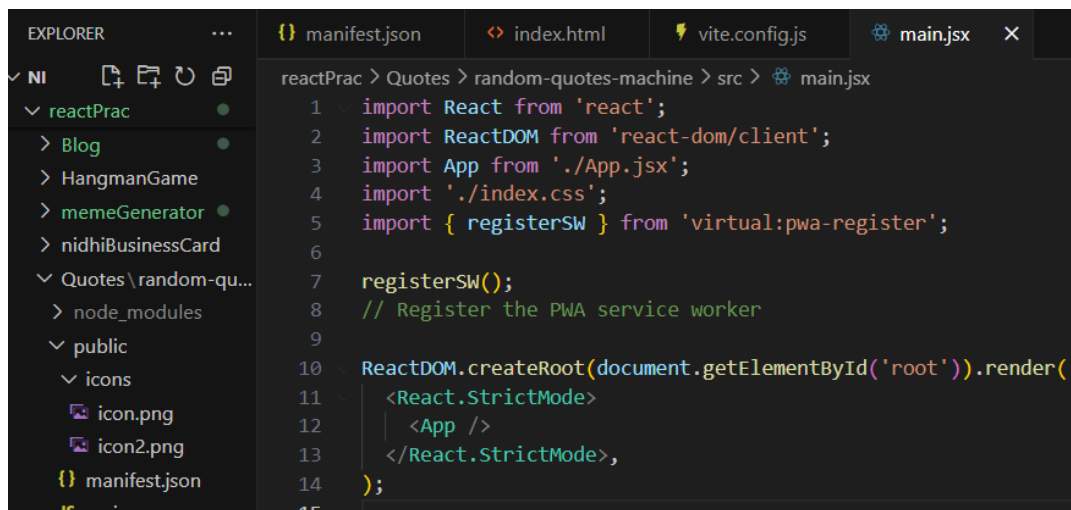


EXPLORER

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 - HangmanGame
 - memeGenerator
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 - Quotes\random-qu...
 - node_modules
 - public
 - icons
 - icon.png
 - icon2.png
 - manifest.json
 - sw.js
 - vite.svg
 - src
 - assets
 - App.css
 - App.jsx
 - index.css

manifest.json

```
1 {
2   "name": "Random Quotes PWA",
3   "short_name": "QuotesApp",
4   "description": "A Progressive Web App for generating random quotes.",
5   "theme_color": "#ffffff",
6   "background_color": "#000000",
7   "display": "standalone",
8   "start_url": "http://localhost:5173",
9   "icons": [
10    {
11      "src": "/icons/icon.png",
12      "sizes": "192x192",
13      "type": "image/png"
14    },
15    {
16      "src": "/icons/icon2.png",
17      "sizes": "512x512",
18      "type": "image/png"
19    }
20  ]
21 }
22
```



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main.jsx

```
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import App from './App.jsx';
4 import './index.css';
5 import { registerSW } from 'virtual:pwa-register';
6
7 registerSW();
8 // Register the PWA service worker
9
10 ReactDOM.createRoot(document.getElementById('root')).render(
11   <React.StrictMode>
12     <App />
13   </React.StrictMode>,
14 );
15
```

