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PWA Practical 7

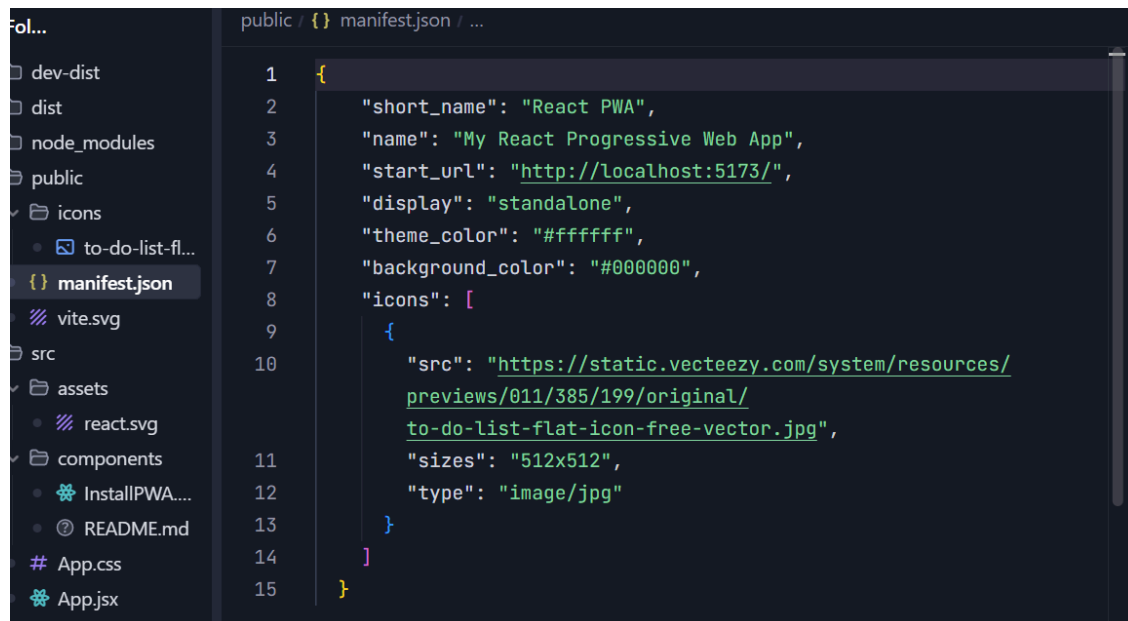## Steps to Make Your Vite React App a PWA

1 Install Vite PWA Plugin

1. Open your terminal inside the project folder.
2. Run the command to install the PWA plugin.
3. 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, caching, and offline support.
4. Save the file and restart the Vite server.
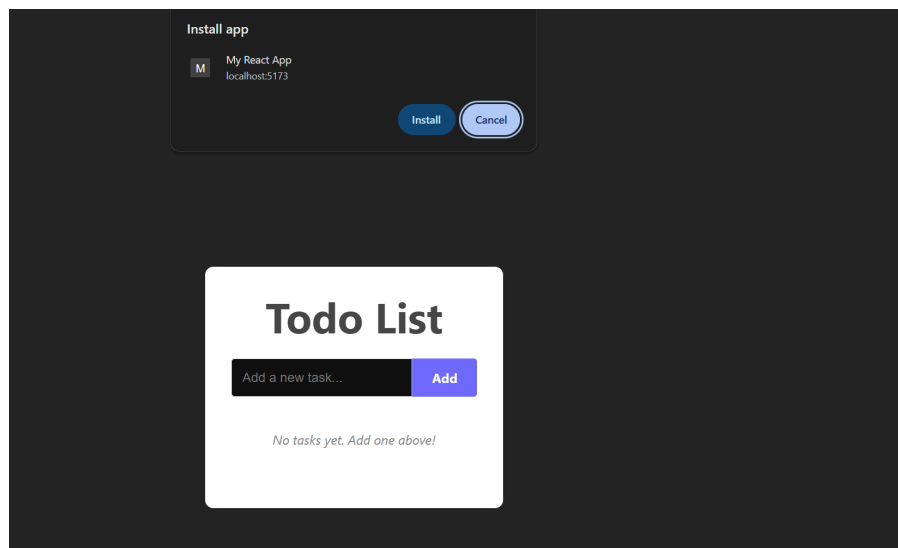
3 Add `manifest.json` File

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**.**

```json
{
    "short_name": "React PWA",
    "name": "My React Progressive Web App",
    "start_url": "http://localhost:5173/",
    "display": "standalone",
    "theme_color": "#ffffff",
    "background_color": "#000000",
    "icons": [
      {
        "src": "https://static.vecteezy.com/system/resources/
        previews/011/385/199/original/
        to-do-list-flat-icon-free-vector.jpg",
        "sizes": "512x512",
        "type": "image/jpg"
      }
    ]
}
```

```
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';
import { VitePWA } from 'vite-plugin-pwa';

export default defineConfig({
  plugins: [
    react(),
    VitePWA({
      registerType: 'autoUpdate',
      manifest: {
        name: 'My React App',
        short_name: 'ReactPWA',
        description: 'My PWA with React and Vite',
        theme_color: '#ffffff',
        background_color: '#000000',
        display: 'standalone',
        start_url: '/',
        icons: [
          {
            src: '/icons/to-do-list-flat-icon-free-vector.png',
            sizes: '512x512',
            type: 'image/png',
            purpose: 'any maskable'
          }
        ]
      },
      devOptions: {
        enabled: true
      }
    })
  ]
});
```

Install app

M   My React App
localhost:5173

Install   Cancel

Todo List

Add a new task...   **Add**

No tasks yet. Add one above!

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

Service workers

☐ Offline ☐ Update on reload ☐ Bypass for network

http://localhost:5173/

Source	dev-sw.js
	Received 4/6/2025, 8:56:38 PM
Status	🟢 #85 activated and is running [Stop]
Clients	http://localhost:5173/ 🖳
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
▶ #85	Install	|
▶ #85	Wait	|
▶ #85	Activate	▆▆▆▆

Service workers from other origins

See all registrations

Application

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Background services

- Back/forward cache
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- Periodic background sync
- Speculative loads
- Push messaging
- Reporting API

Frames

- top

App Manifest

manifest.json

Errors and warnings

⚠ Richer PWA Install UI won't be available on desktop. Please add at least one screenshot with the form_factor set to wide.

⚠ Richer PWA Install UI won't be available on mobile. Please add at least one screenshot for which form_factor is not set or set to a value other than wide.

⚠ Actual size (1405×1920)px of Icon http://localhost:5173/icons/to-do-list-flat-icon-free-vector.png does not match specified size (512×512px)

⚠ Declaring an icon with 'purpose' of 'any maskable' is discouraged. It is likely to look incorrect on some platforms due to too much or too little padding.

Identity

Name	My React App
Short name	ReactPWA
Description	My PWA with React and Vite
Computed App ID	http://localhost:5173/ ⑦ Learn more

Note: id is not specified in the manifest, start_url is used instead. To specify an App ID that matches the current identity, set the id field to / 🗏 .

Presentation

Start URL	/
Theme color	■ #ffffff
Background color	☐ #000000
Orientation	
Display	standalone

Todo List

Add a new task... **Add**

No tasks yet. Add one above!