**Aim:** To write meta data of your Ecommerce PWA in a Web app manifest file to enable "add to homescreen feature".

#### Theory

In Progressive Web Apps (PWA), the web app manifest is a JSON file that provides important metadata about the web application. This metadata tells the browser how the app should behave when installed on a user's device, such as its name, icons, color themes, and launch behavior.

The main goal of this experiment is to enable the "Add to Home Screen" feature, which allows users to install the PWA directly on their device like a native app.

# What We Implemented:

We created a manifest.json file and linked it in the <head> section of our index.html using:

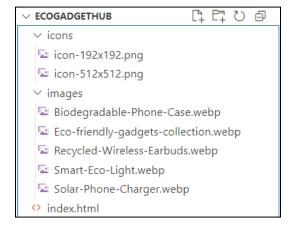
<link rel="manifest" href="manifest.json">

### In the manifest file:

- "name" and "short name" define how the app is named on the home screen and splash screen.
- "start\_url" specifies the entry point when the app is opened.
- "display": "standalone" ensures the app opens without browser UI, giving it an app-like feel.
- "theme\_color" and "background\_color" customize the app's appearance on launch.
- "orientation": "portrait" locks the screen orientation.
- "scope" limits what URLs the PWA has control over.
- "icons" define images used for the home screen and splash screen when the app is installed.

By including this manifest and serving the site over HTTPS, the browser detects that it's a PWA and automatically enables the Add to Home Screen option.

#### **Folder Structure**



#### Code

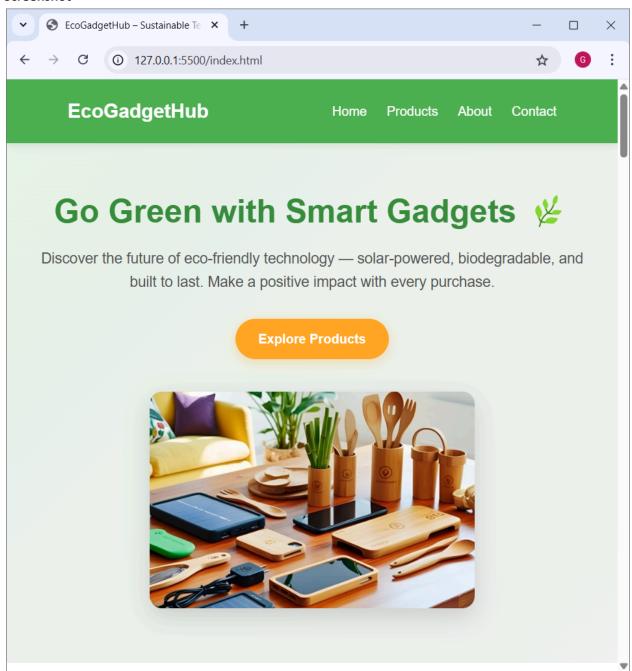
### index.html

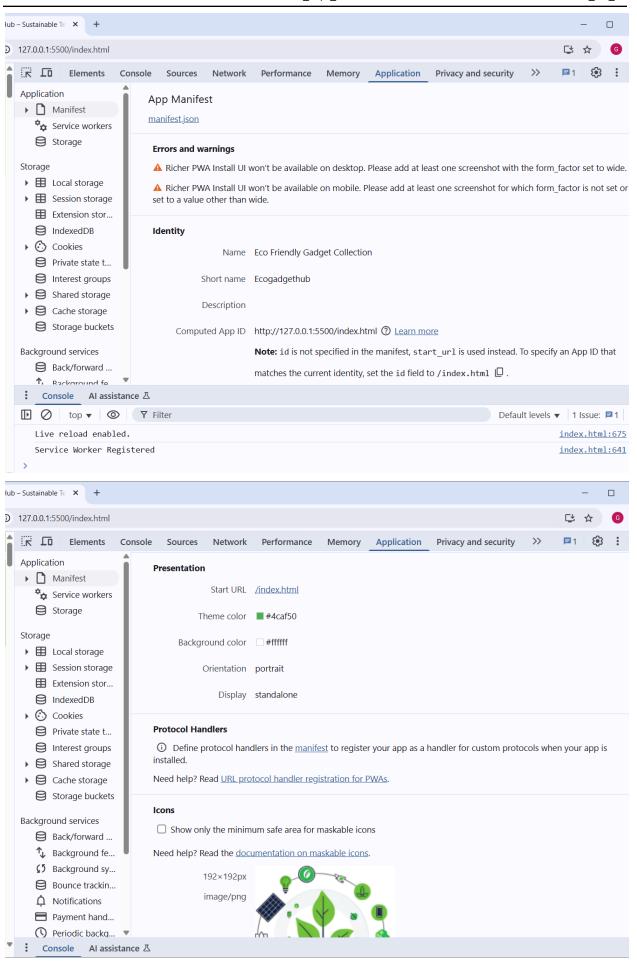
<!DOCTYPE html> <html lang="en">

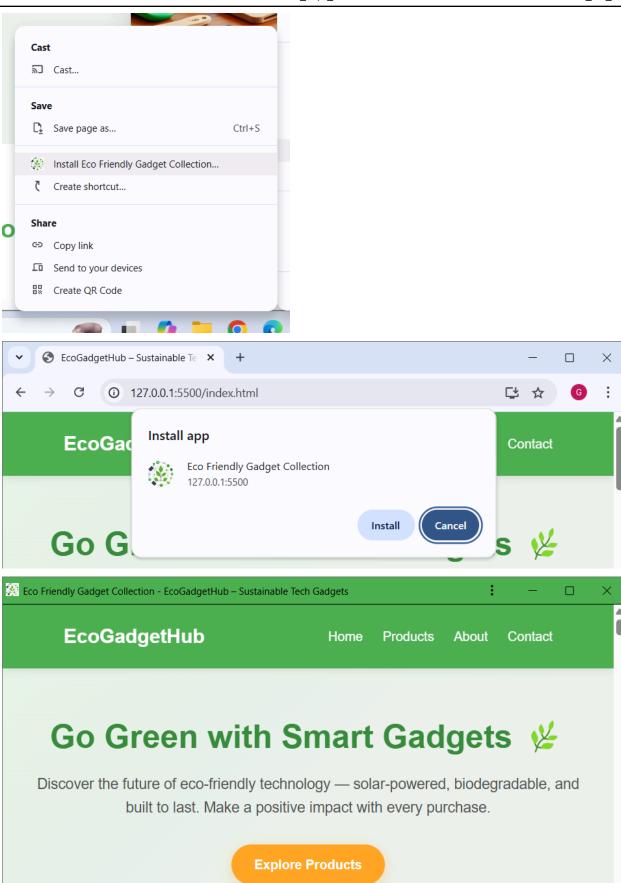
```
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>EcoGadgetHub - Sustainable Tech Gadgets</title>
  <link rel="manifest" href="manifest.json">
  </style>
 </head>
 <body>
  <script>
   if ("serviceWorker" in navigator) {
    navigator.serviceWorker
     .register("serviceworker.js")
     .then(() => console.log("Service Worker Registered"))
     .catch((error) =>
      console.log("Service Worker Registration Failed", error)
     );
   }
  </script>
</body>
</html>
manifest.json
  "name": "Eco Friendly Gadget Collection",
  "short_name": "Ecogadgethub",
  "start_url": "/index.html",
  "display": "standalone",
  "background_color": "#ffffff",
  "theme color": "#4caf50",
  "orientation": "portrait",
  "scope": "/",
  "icons": [
   {
    "src": "icons/icon-192x192.png",
    "sizes": "192x192",
    "type": "image/png"
   },
    "src": "icons/icon-512x512.png",
    "sizes": "512x512",
```

```
"type": "image/png"
}
]
```

## Screenshot









# **Conclusion**

In this experiment, we successfully implemented the Web App Manifest for EcoGadgetHub, enabling the "Add to Home Screen" feature with proper icons and theme settings. Initially, we faced an issue where the manifest was not loading due to an incorrect file path, which we resolved by placing it in the root directory and correctly linking it in the HTML.