MPL Lab 7 Mayur Jaiswal D15B 24

Aim: To create and configure a Web App Manifest file that enables Progressive Web App (PWA) features such as "Add to Home Screen" and native-like appearance.

Theory: The Web App Manifest is a simple JSON file that provides essential information about a web application (such as name, icons, theme color, and start URL). It allows a browser to install the web application to a device's home screen and launch it in a standalone window without the browser UI, offering a native app-like experience.

The manifest must be linked in the HTML <head> for the browser to recognize and apply it.

Steps to Perform:

Create manifest.json: Place this file in the root or public/ directory of your project.

Link Manifest in HTML: In your index.html:

```
html html = "manifest" href="manifest.json"> <meta name="theme-color" content="#6200ea">
```

Add Icons:

1.

Include icons in the specified sizes inside the /icons folder. These are used for the app shortcut on mobile.

Test in Browser:

- o Run your app.
- \circ Open Developer Tools \rightarrow Application tab \rightarrow Manifest.
- Check for successful registration and "Install" prompt.

Key Features:

- App-Like Feel: Runs in full-screen mode.
- Custom Branding: Shows app name and icon on the home screen.
- Offline Availability: Combined with service workers, enhances offline UX.
- Multi-Device Support: Works on mobile, tablet, desktop.

```
frontend > build > {} manifest.json > ...
         "short name": "MyApp",
         "name": "My MERN PWA App",
         "id": "/",
         "start url": ".",
         "display": "standalone",
         "background color": "#ffffff",
         "theme color": "#6200ee",
         "icons": [
 11
           "src": "icons/icon-192x192.png",
 12
           "sizes": "192x192",
 13
           "type": "image/png",
 14
           "purpose": "any"
 15
 16
         },
 17
           "src": "icons/icon-512x512.png",
 18
           "sizes": "512x512",
 19
           "type": "image/png",
 20
           "purpose": "any"
 21
 22
```

PS D:\Downloads\millets-main\millets-main\frontend> serve -s build

```
Serving!
- Local: http://localhost:3000
```

