Experiment - 7

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AIM:

To write metadata of your E-commerce PWA in a Web App Manifest file to enable "Add to Homescreen" feature.

Theory:

A Progressive Web App (PWA) combines the best of web and mobile apps. One key feature of PWAs is the ability to be installed on a user's device directly from the browser using the **"Add to Homescreen"**feature. This functionality is enabled by defining a **Web App Manifest** file.

1. What is a Web App Manifest?
A Web App Manifest is a simple JSON file that contains metadata about the app, such as its name, icons, start URL, background color, display mode, and theme. It tells the browser how the app should appear when installed and launched from the home screen. **2. Enabling Add to Homescreen**

For the "Add to Homescreen" feature to work:

- A valid manifest file must be linked in the HTML <head>.

- The app must be served over HTTPS.

- A registered service worker must handle caching and offline support.

3. Benefits for E-commerce PWAs

- Provides app-like experience.

- Increases user engagement and return visits.

- Works offline or in low-network conditions.

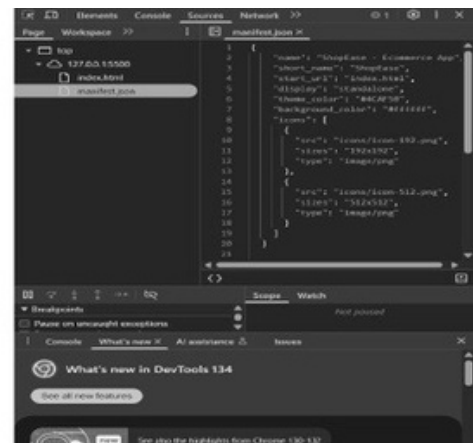- Enhances brand visibility with custom icons and splash screens.

{

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"name": "ShopEase - Your Ecommerce Store",

"short_name": "ShopEase",

"start_url": "/index.html",

"display": "standalone",

"background_color": "#ffffff",

"theme_color": "#4CAF50",

"icons": [

{

"src": "icons/icon-192x192.png",

"sizes": "192x192",

"type": "image/png"

},

{

"src": "icons/icon-512x512.png",

"sizes": "512x512",

"type": "image/png

Conclusion: Adding a Web App Manifest file with proper metadata is essential for enabling the "Add to Home Screen" feature in E-commerce PWAs. It improves usability, promotes user retention, and delivers a seamless mobile-like experience.