Experiment 7

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

Theory: A Progressive Web App (PWA) is a type of web application that uses modern web capabilities to deliver an app-like experience to users. PWAs can work offline, load quickly, and be installed on a user's device just like native apps.

A Web App Manifest is a JSON file that contains metadata about a PWA, such as the app's name, icons, theme color, background color, and how it should behave when launched. This file is essential for enabling the "Add to Home Screen" feature on mobile browsers, allowing users to install the web app on their device.

Code:

```json
"name": "RedCherry",

"short_name": "RedCherry",

"description": "RedCherry Simple PWA",

"icons": [

    {

        "src": "img/fav-192.png",

        "sizes": "192x192",

        "type": "image/png",

        "purpose": "any maskable"

    },

    {

        "src": "img/fav-512.png",

        "sizes": "512x512",
```

```json
            "type": "image/png"

        }

    ],

    "screenshots": [

        {

            "src": "img/screenshot-1.jpg",

            "sizes": "1000x1600",

            "type": "image/jpeg"

        },

        {

            "src": "img/screenshot-2.jpg",

            "sizes": "1000x1600",

            "type": "image/jpeg"

        }

    ],

    "background_color": "#af0a1a",

    "theme_color": "#af0a1a",

    "display": "fullscreen",

    "orientation": "any",

    "start_url": ".",

    "url": "index.html",
```
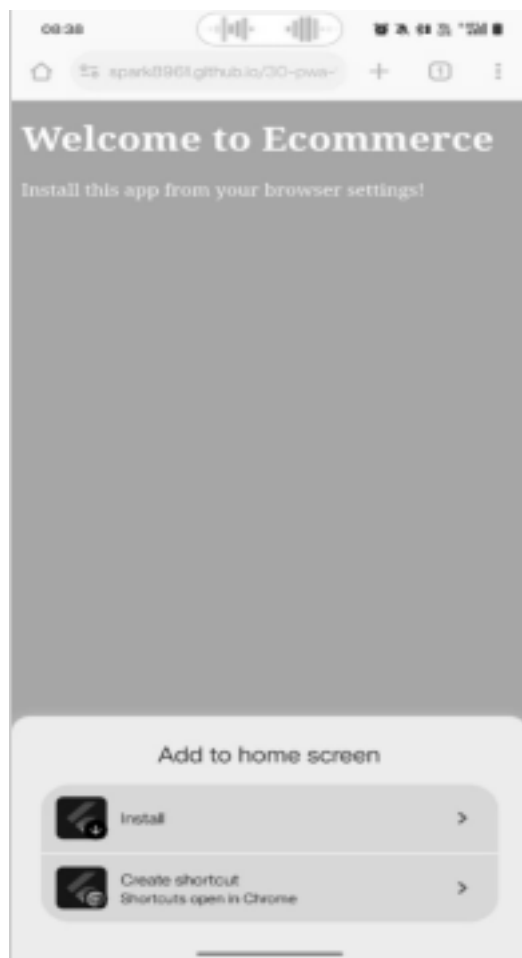
```
    "scope": ".",

    "lang": "fa-IR",

    "dir": "rtl"

}
```

Output:

Conclusion: By adding the manifest file with proper metadata, we successfully enabled the "Add to Home Screen" feature for the Ecommerce PWA. This step is essential for improving user engagement and giving the web app a native app-like feel.