

## Practical 7

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### Aim:

To write meta data of your PWA in a Web app manifest file to enable “add to homescreen feature”.

### Theory:

A **Progressive Web App (PWA)** enhances a regular web application by making it installable and capable of running offline like a native app. One of the key components that make a web app a PWA is the **Web App Manifest** file — a simple JSON file that provides essential metadata about the app.

In this experiment, we created a manifest.json file for Netflix clone web application. This file includes details like:

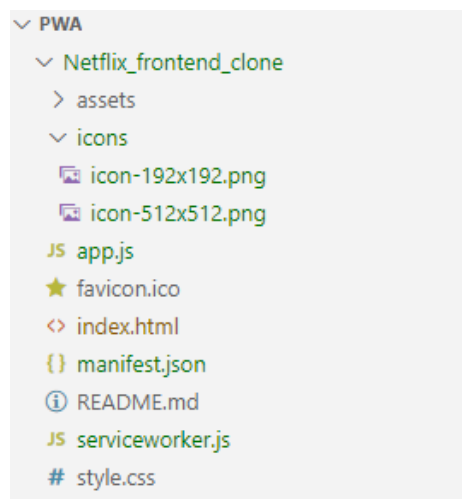
- **App name and short name** for display
- **Start URL, display mode** (standalone), **background color**, and **theme color**
- A **description** for the app
- A list of **icons** in required formats (PNG, 192x192 and 512x512, with purpose: "any")
- **Screenshots** of the app to showcase its interface

These details allow modern browsers to recognize the web app as a PWA and prompt users with an “**Add to Home Screen**” option.

We also fixed common validation issues such as:

- Ensuring icons are of minimum size 144x144
- Using proper image formats like PNG and WEBP
- Setting the required sizes and purpose attributes for icons

### Folder Structure:



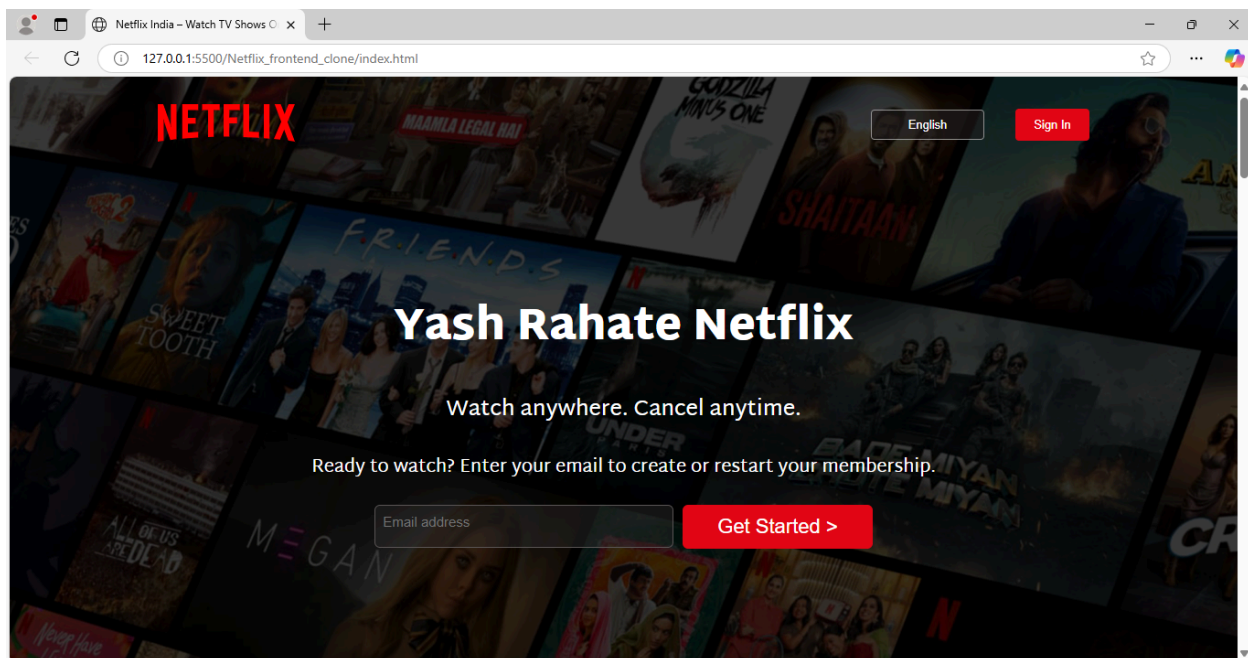
**Index.html**

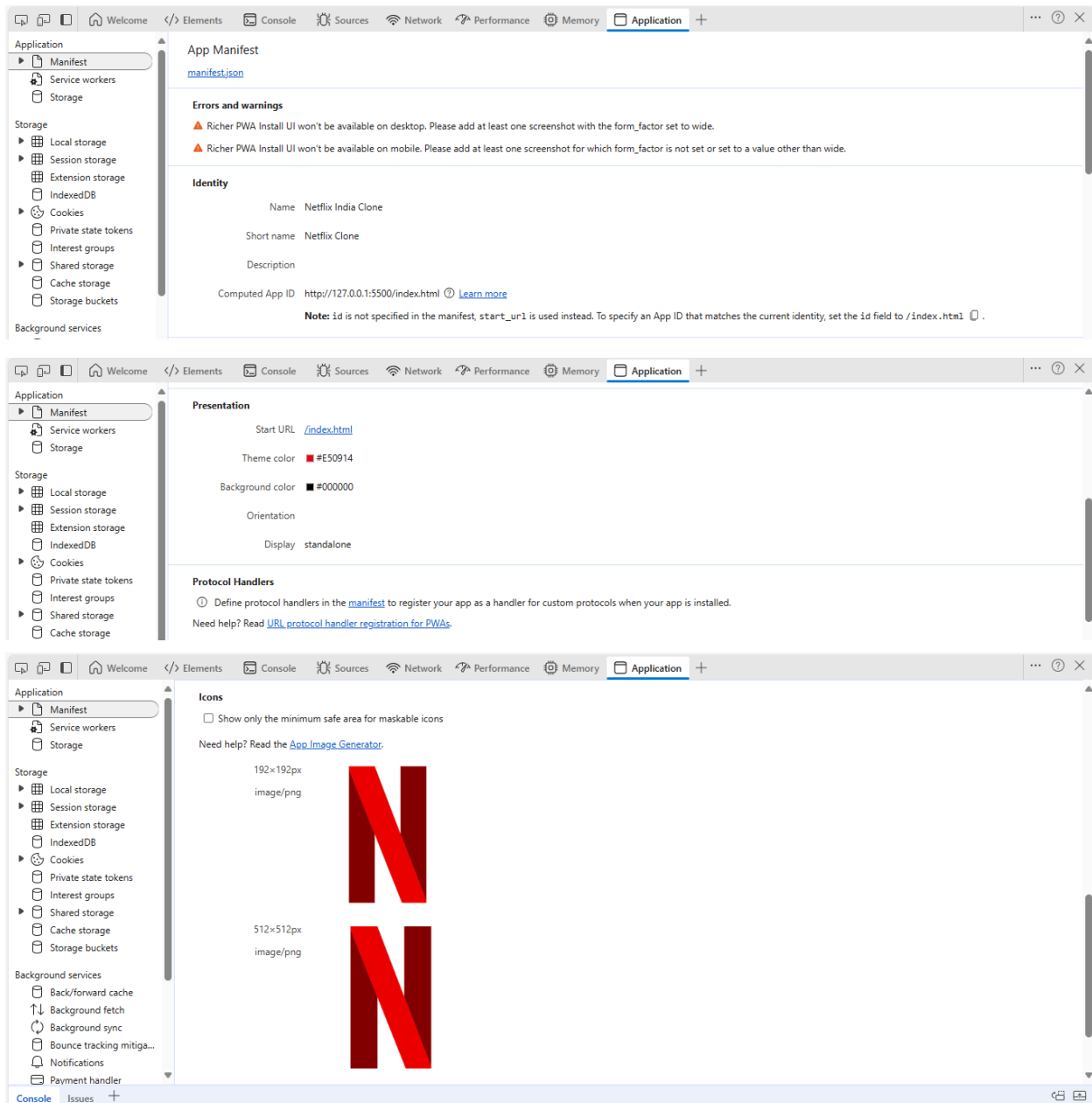
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Netflix India – Watch TV Shows Online, Watch Movies Online</title>
    <link rel="stylesheet" href="style.css" />
    <link rel="manifest" href="manifest.json">
  </head>
  <body>
    <div class="main">
      <nav>
        <span>
          </span>
        <div>
          <button class="btn">English</button>
          <button class="btn-red-sm">Sign In</button>
        </div>
      </nav>
      <div class="box"></div>
      <div class="hero">
        <span>Yash Rahate Netflix</span>
        <span>Watch anywhere. Cancel anytime.</span>
        <span>
          >Ready to watch? Enter your email to create or restart your
          membership.</span>
        >
        <div class="herobtn">
          <input type="text" placeholder="Email address" />
          <button class="btn-red">Get Started &gt;</button>
        </div>
      </div>
    </div>
  </body>
</html>
```

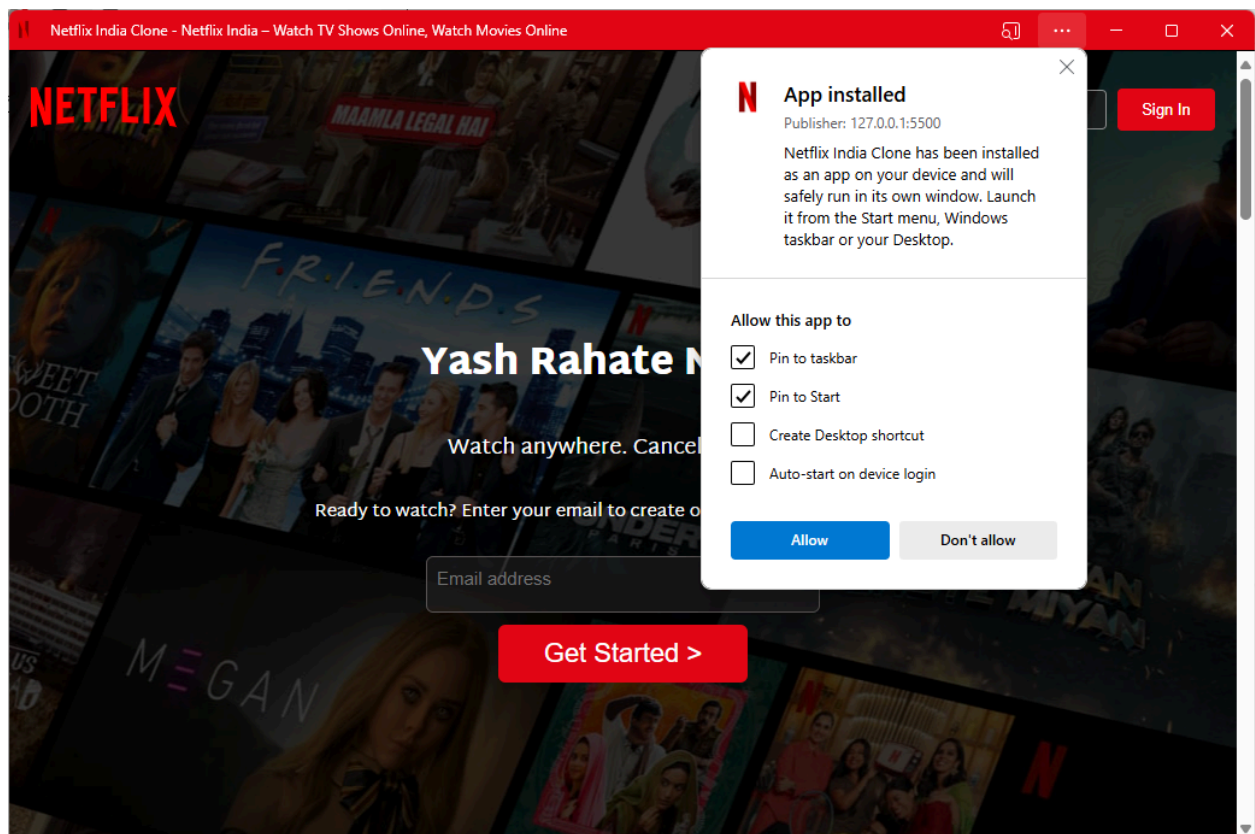
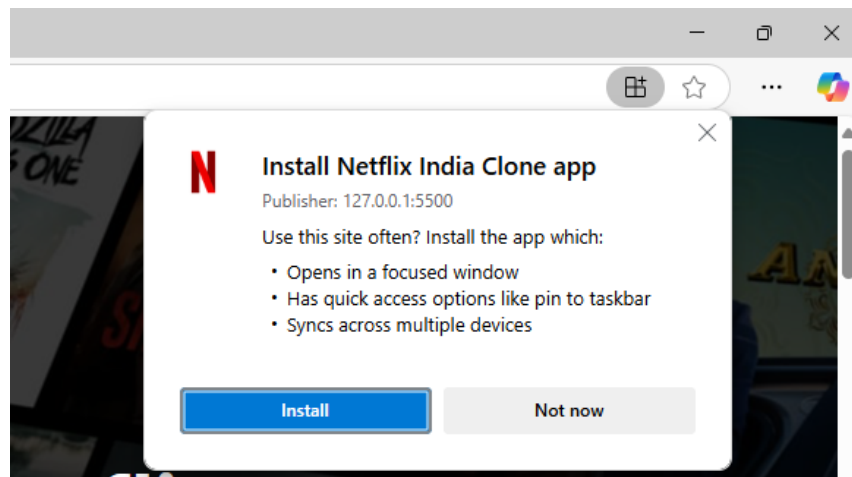
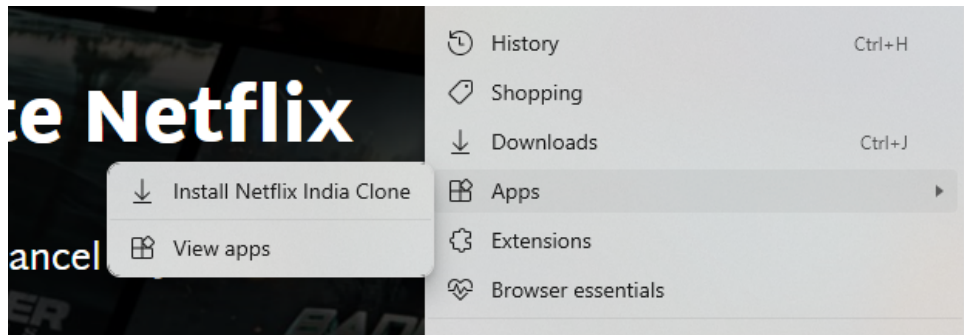
**Manifest.json**

```
{
  "name": "Netflix India Clone",
```

```
"short_name": "Netflix Clone",
"start_url": "/index.html",
"display": "standalone",
"background_color": "#000000",
"theme_color": "#E50914",
"icons": [
  {
    "src": "icons/icon-192x192.png",
    "sizes": "192x192",
    "type": "image/png"
  },
  {
    "src": "icons/icon-512x512.png",
    "sizes": "512x512",
    "type": "image/png"
  }
]
```

**Output:**





**Conclusion:**

By configuring the manifest.json correctly, the Netflix clone web app becomes installable and behaves more like a native mobile application. This improves user engagement and accessibility, especially for mobile users. I faced errors while configuring the icons but it was easily solved by changing the width and height of the images.