

Practical 7

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Roll No.: 35

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)** 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 an E-commerce web application named **Festival Combo Shop**. This file includes details like:

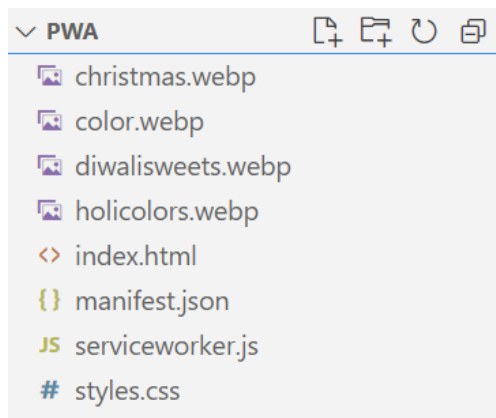
- **App name and short name** for display
- **Start URL, display mode** (standalone), **background color**, and **theme color**
- A **description** for the app
- A list of **icons** in required formats (PNG, 192x192 and 512x512, with purpose: "any")
- **Screenshots** of the app to showcase its interface

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>Festival Combo Shop</title>
  <link rel="manifest" href="manifest.json">
  <link href="https://cdn.jsdelivr.net/npm/tailwindcss@2.2.19/dist/tailwind.min.css" rel="stylesheet">
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
  <style>
    .festival-card {
      transition: transform 0.3s ease, box-shadow 0.3s ease;
    }
    .festival-card:hover {
      transform: translateY(-5px);
      box-shadow: 0 10px 25px rgba(0, 0, 0, 0.1);
    }
    .btn-animation {
      transition: all 0.3s ease;
    }
    .btn-animation:hover {
      transform: translateY(-2px);
      box-shadow: 0 5px 15px rgba(0, 0, 0, 0.1);
    }
    .hero-section {
      background-image: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)), url('/images/color.webp');
    }
  </style>
</head>

<script>
  if ('serviceWorker' in navigator) {
    window.addEventListener('load', () => {
      navigator.serviceWorker.register('/serviceworker.js')
        .then(reg => {
          console.log('Service Worker registered successfully:', reg.scope);
        })
    })
  }
</script>
```


```
.catch(err => {  
  console.error('Service Worker registration failed:', err);  
});  
});  
}  
</script>
```



Manifest.json

```
{  
  "name": "Festival Combo Shop",  
  "short_name": "Festival Combos",  
  "start_url": "./index.html",  
  "display": "standalone",  
  "background_color": "#f9fafb",  
  "theme_color": "#ec4899",  
  "description": "Celebrate with perfect festival combos for Diwali, Holi, Christmas, and more!",  
  "icons": [  
    {  
      "src": "/images/icon-192.png",  
      "sizes": "192x192",  
      "type": "image/png"  
    },  
    {  
      "src": "/images/icon-512.png",  
      "sizes": "512x512",  
      "type": "image/png"  
    }  
  ],  
  "screenshots": [  
    {  
      "src": "/images/color.webp",  
      "type": "image/webp",  
      "sizes": "1280x720"  
    },  
    {  
      "src": "/images/diwalisweets.webp",  
      "type": "image/webp",  
      "sizes": "800x600"  
    }  
  ],  
}
```

```
{
  "src": "/images/holicolors.webp",
  "type": "image/webp",
  "sizes": "800x600"
},
{
  "src": "/images/christmas.webp",
  "type": "image/webp",
  "sizes": "800x600"
}
]
```

Output:

 **Festival Combo Shop**

[Home](#) [All Combos](#) [Festivals](#) [Special Offers](#) [Contact Us](#)


Celebrate with Perfect Festival Combos

One-stop destination for all your festival essentials - from decor to food and clothing!

[Browse Combos](#)

Popular Festival Combos


Discover our carefully curated combo packs for your favorite festivals. Everything you need for a perfect celebration!



🕯️ Diwali Delight Combo

Celebrate the festival of lights with our exclusive combo featuring premium diyas, rangoli colors, and traditional sweets.


₹1,499 [Add to Cart](#)



🌈 Holi Happiness Combo

Experience the joy of colors with our Holi pack featuring organic gulal, water guns, and delicious gujiya sweets.

₹999 [Add to Cart](#)



🎄 Christmas Joy Combo

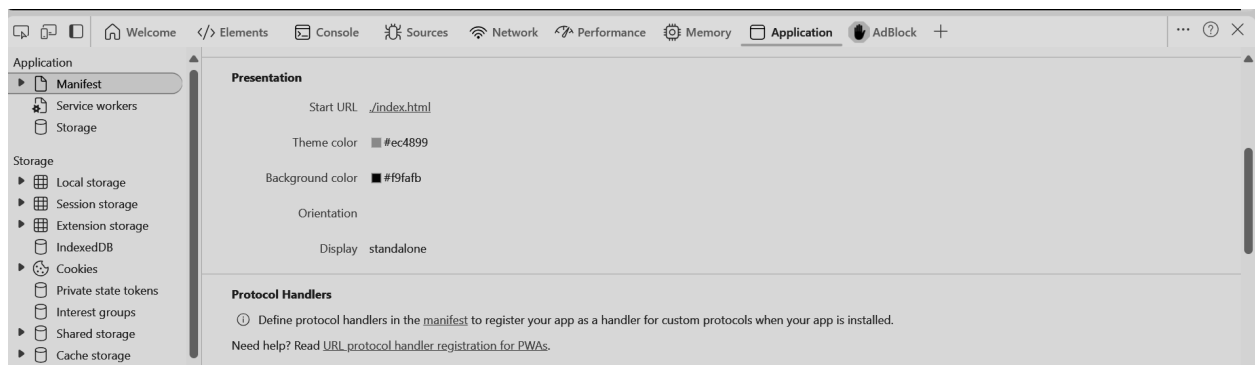
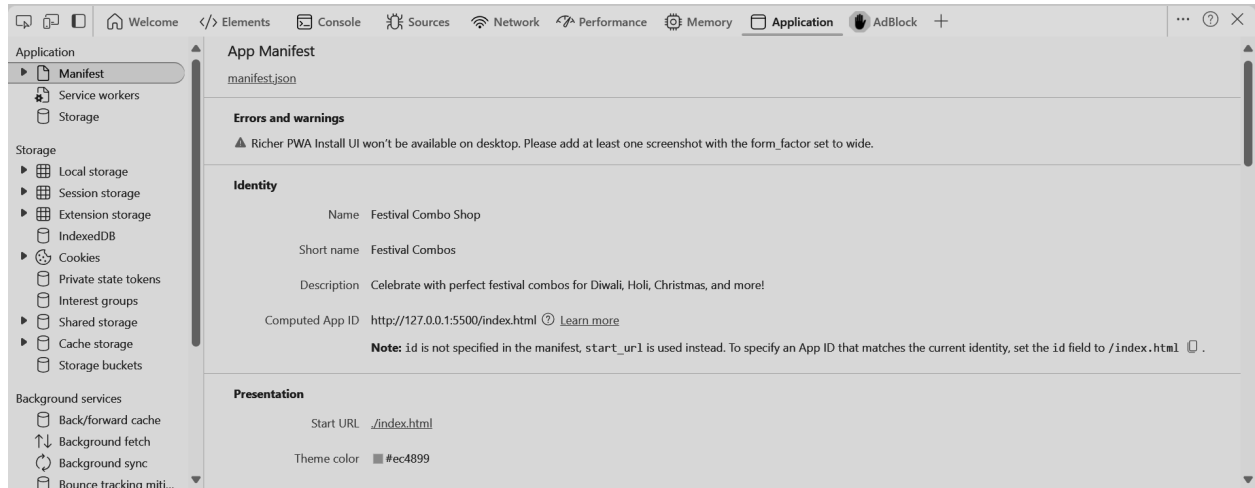
Spread Christmas cheer with our festive combo including tree decorations, stockings, and traditional plum cake.

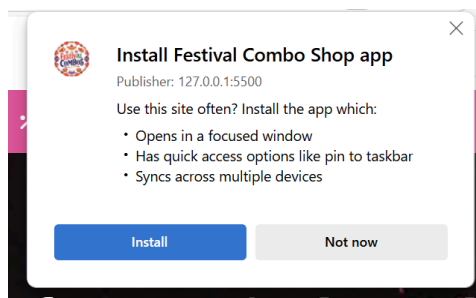
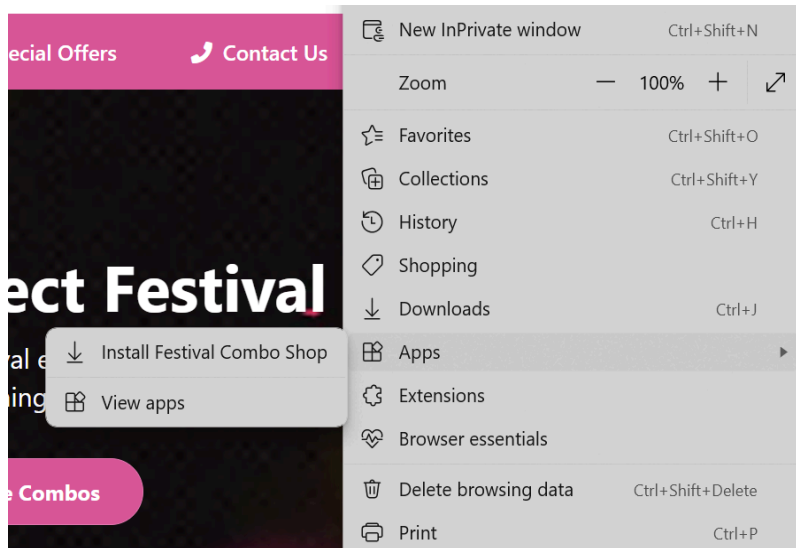
₹1,299 [Add to Cart](#)

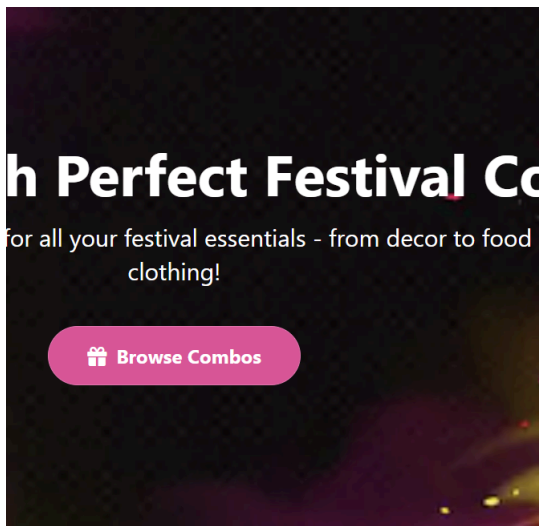
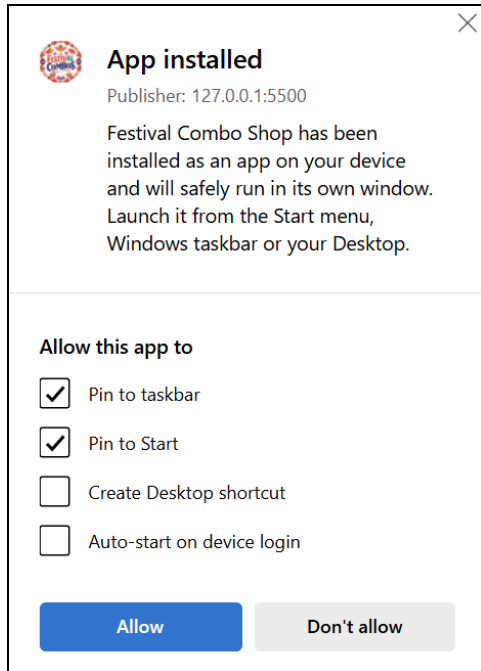
[View All Festival Combos](#)

Why Choose Our Festival Combos?

Experience the convenience and joy of our carefully curated festival combinations





**Conclusion:**

By configuring the manifest.json correctly, the E-commerce 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.