

## MPL Practical 07

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

### Theory

A Web App Manifest is a JSON file that contains metadata about a web application, allowing browsers to treat it like a native app. It helps enable the “Add to Home Screen” feature on mobile devices, giving users quicker access to the web app with an icon and splash screen similar to native apps.

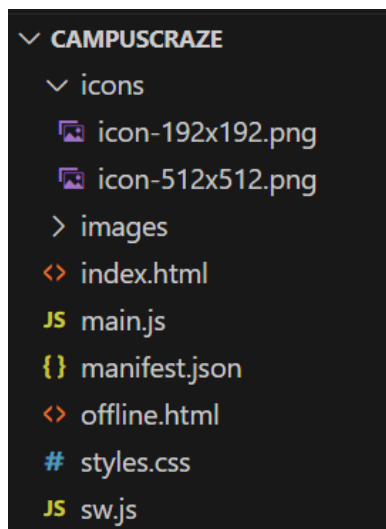
In this experiment, we created a manifest file for our e-commerce PWA CampusCraze, targeted at college students. We included essential metadata like:

- name and short\_name to define the app's identity,
- description to describe its purpose,
- start\_url to define the launch point,
- display: standalone to make it open without browser UI,
- theme\_color and background\_color for brand consistency,
- orientation as portrait-primary for mobile optimization,
- icons of different sizes for home screen and splash visuals.

We linked this manifest properly in the <head> of the index.html file, added theme color, and defined an Apple touch icon for broader device compatibility. This ensures that CampusCraze can be installed on user devices and accessed like a native shopping app.

By implementing the manifest, we’ve made CampusCraze PWA-ready with a smoother, app-like experience on mobile devices.

### 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">
  <meta name="description" content="CampusCraze - Budget-friendly stationery, hostel decor
and fashion for college students">
  <meta name="theme-color" content="#ff6f61">

  <title>CampusCraze – Cool Stuff for College Life</title>

  <link rel="stylesheet" href="styles.css">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;500;700&display=swap"
rel="stylesheet">

  <!-- PWA requirements -->
  <link rel="manifest" href="manifest.json">
  <link rel="apple-touch-icon" href="icons/icon-192x192.png">

  <!-- For better SEO and sharing -->
  <meta property="og:title" content="CampusCraze – Cool Stuff for College Life">
  <meta property="og:description" content="From hostel décor to budget fashion – shop
everything you need to live your best college life!">
  <meta property="og:image" content="images/og-image.jpg">
</head>
<body>

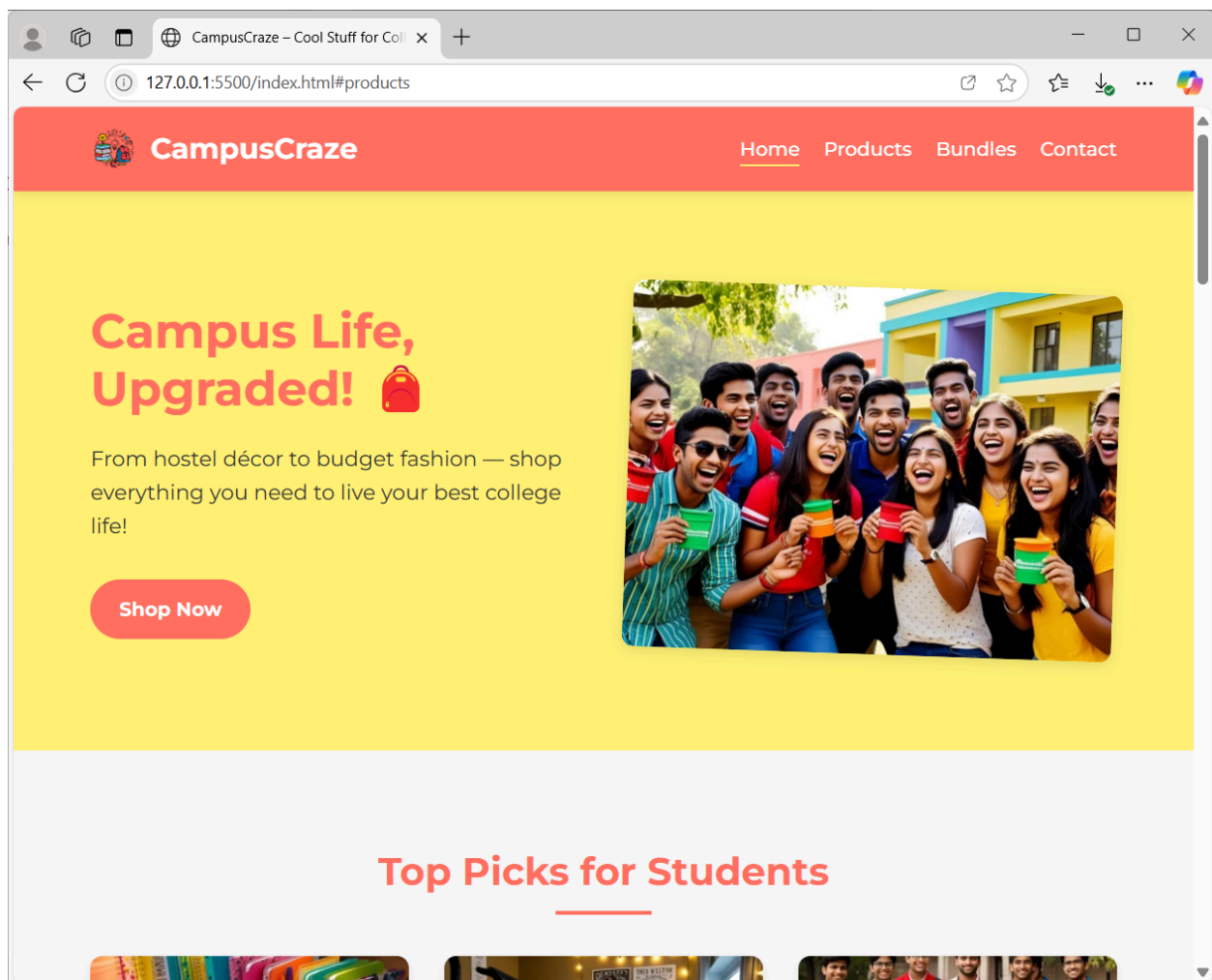
</body>
</html>
```

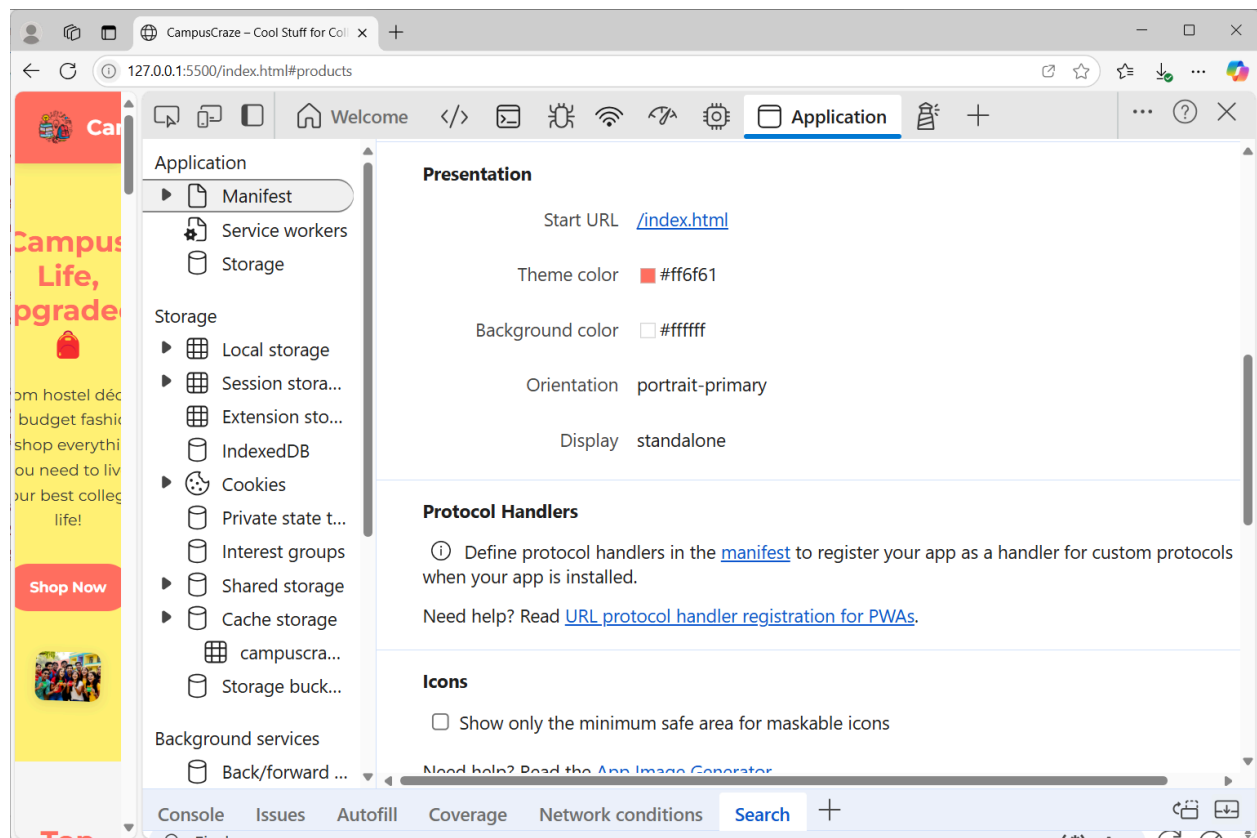
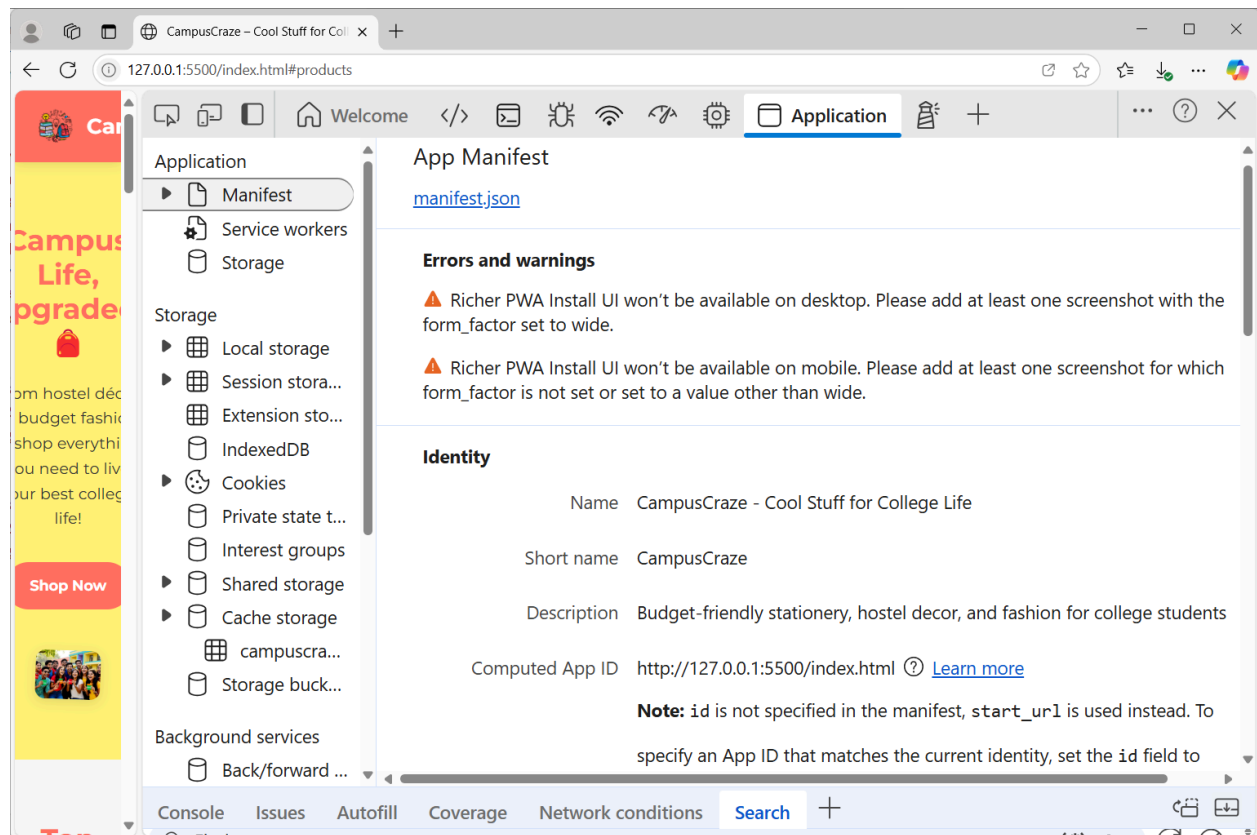
**manifest.json**

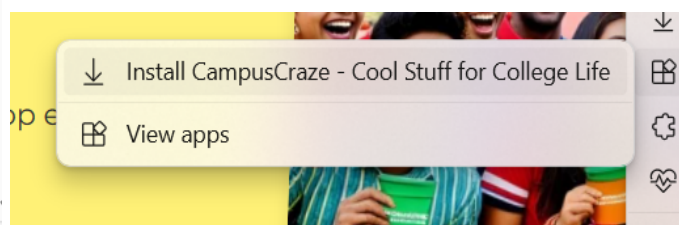
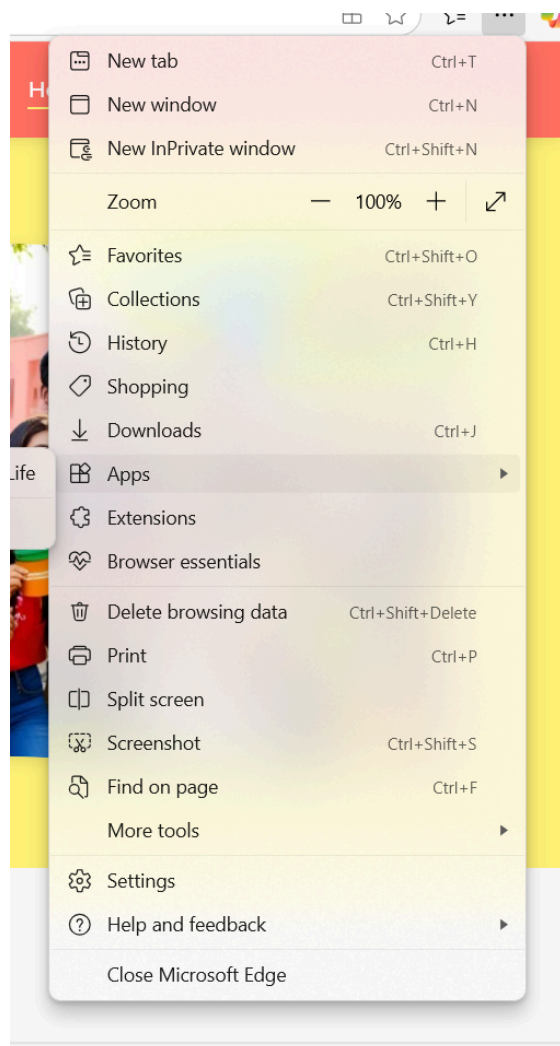
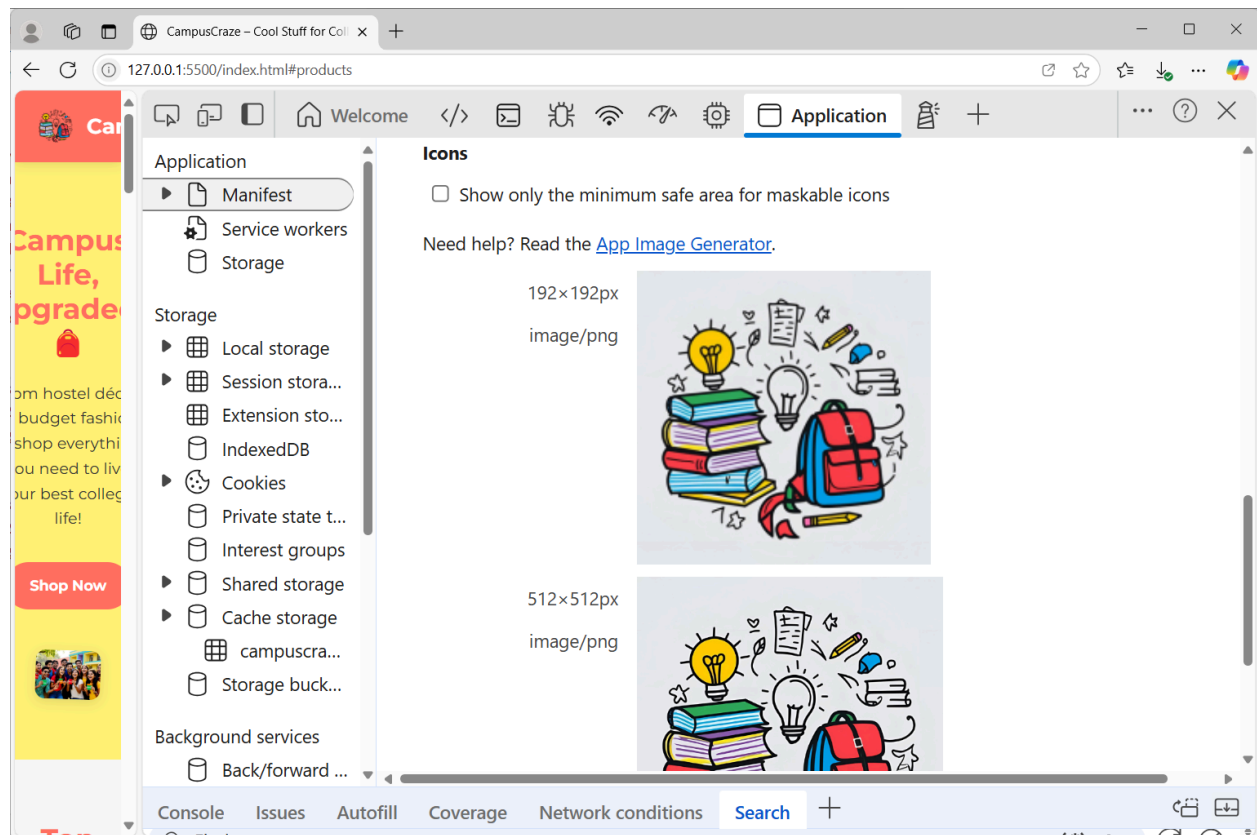
```
{
  "name": "CampusCraze - Cool Stuff for College Life",
  "short_name": "CampusCraze",
  "description": "Budget-friendly stationery, hostel decor, and fashion for college students",
  "start_url": "/index.html",
```

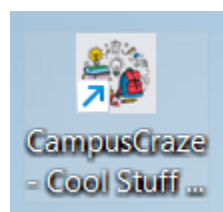
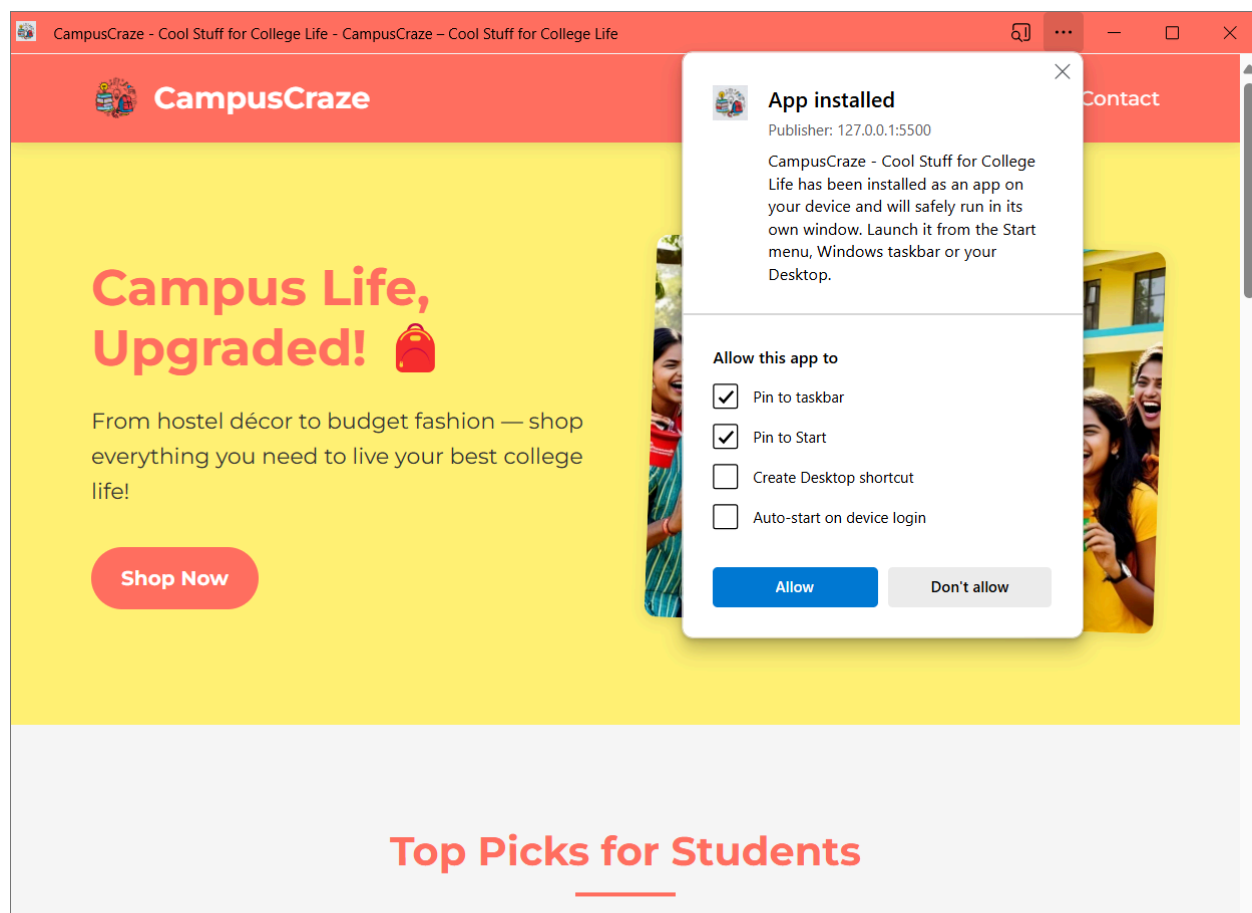
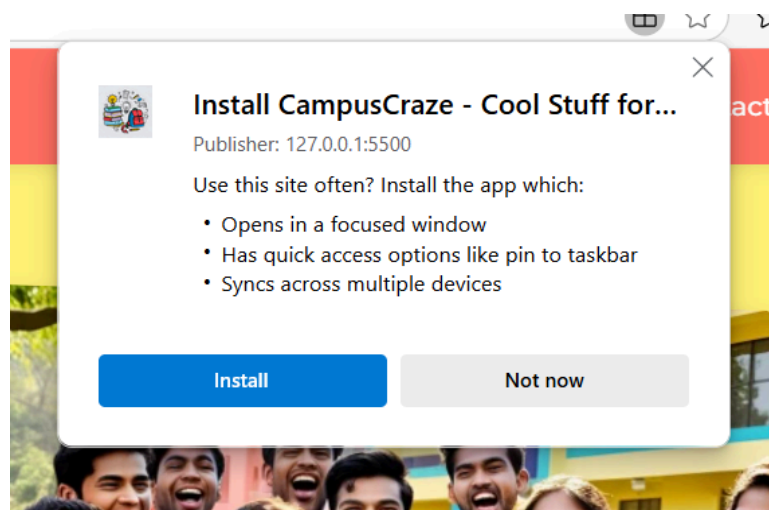
```
"display": "standalone",
"background_color": "#ffffff",
"theme_color": "#ff6f61",
"orientation": "portrait-primary",
"icons": [
  {
    "src": "icons/icon-192x192.png",
    "sizes": "192x192",
    "type": "image/png"
  },
  {
    "src": "icons/icon-512x512.png",
    "sizes": "512x512",
    "type": "image/png"
  }
]
```

## Screenshot









## Conclusion

In this experiment, we successfully implemented the Web App Manifest for CampusCraze, enabling the "Add to Home Screen" feature with proper metadata and icons. Initially, the manifest didn't load due to a wrong file path, which we fixed by placing it in the root directory and correctly linking it in the HTML <head>.