

Manifests for PWA.

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1 Introduction

In this document we will talk about the manifests and how can use it in a pwa.

1.1 Purpose

The purpose of this document is to provide a detailed description of the manifests and how can use it to develop a pwa application.

1.2 References

References

- [1] MDN (2023, June 28) MDN Web Docs. <https://developer.mozilla.org/en-US/docs/Web/Manifest>

2 Manifests

Manifests is a JSON (JavaScript Object Notation) file that provides metadata about a Progressive Web App (PWA). This metadata includes information such as the app's name, icons, colors, display modes, and other properties that influence how the app appears and behaves when installed on a user's device.

2.1 Deploying a manifest

To deploy a manifest, you need to create a file named `manifest.json` in the root directory of your web app. The `manifest.json` file must be served with the correct MIME type, `application/manifest+json`, and linked to from your web app using a `link` element in the head of your HTML document.

2.2 Splash screens

In some browsers and operating systems, a splash screen is displayed when an installed PWA is launched. This splash screen is automatically generated and its appearance is defined by members in the web app manifest, specifically:

2.3 Manifests example

```
1 {
2   "name": "HackerWeb",
3   "short_name": "HackerWeb",
4   "start_url": ".",
5   "display": "standalone",
6   "background_color": "#fff",
7   "description": "A readable Hacker News app.",
8   "icons": [
9     {
10      "src": "images/touch/homescreen48.png",
11      "sizes": "48x48",
12      "type": "image/png"
13    },
14    {
15      "src": "images/touch/homescreen72.png",
16      "sizes": "72x72",
17      "type": "image/png"
18    },
19    {
20      "src": "images/touch/homescreen96.png",
21      "sizes": "96x96",
22      "type": "image/png"
23    },
24    {
25      "src": "images/touch/homescreen144.png",
26      "sizes": "144x144",
27      "type": "image/png"
28    },
29    {
30      "src": "images/touch/homescreen168.png",
31      "sizes": "168x168",
32      "type": "image/png"
33    },
34    {
35      "src": "images/touch/homescreen192.png",
36      "sizes": "192x192",
37      "type": "image/png"
38    }
39  ],
40  "related_applications": [
41    {
42      "platform": "play",
43      "url": "https://play.google.com/store/apps/details?id=cheeaun.hackerweb"
44    }
45  ]
46 }
```

Figure 1: Manifest example