

Aim - To write meta data of your E-commerce PWA in a web app manifest file to enable "add to home screen feature".

Theory -

- Regular Web App -

A regular web app is a website that can be accessed on mobile devices and adjusts to the device screen. It is built using web technologies and runs in a browser. It offers some native device features but compatibility depends on the user's browser, so some features may not work on certain browsers.

- Progressive Web App (PWA) -

Progressive web App is an enhanced version of a regular web app that provides an excellent user experience by blending desktop and mobile application experiences, catering to both platforms for end-users.

• What is metadata?

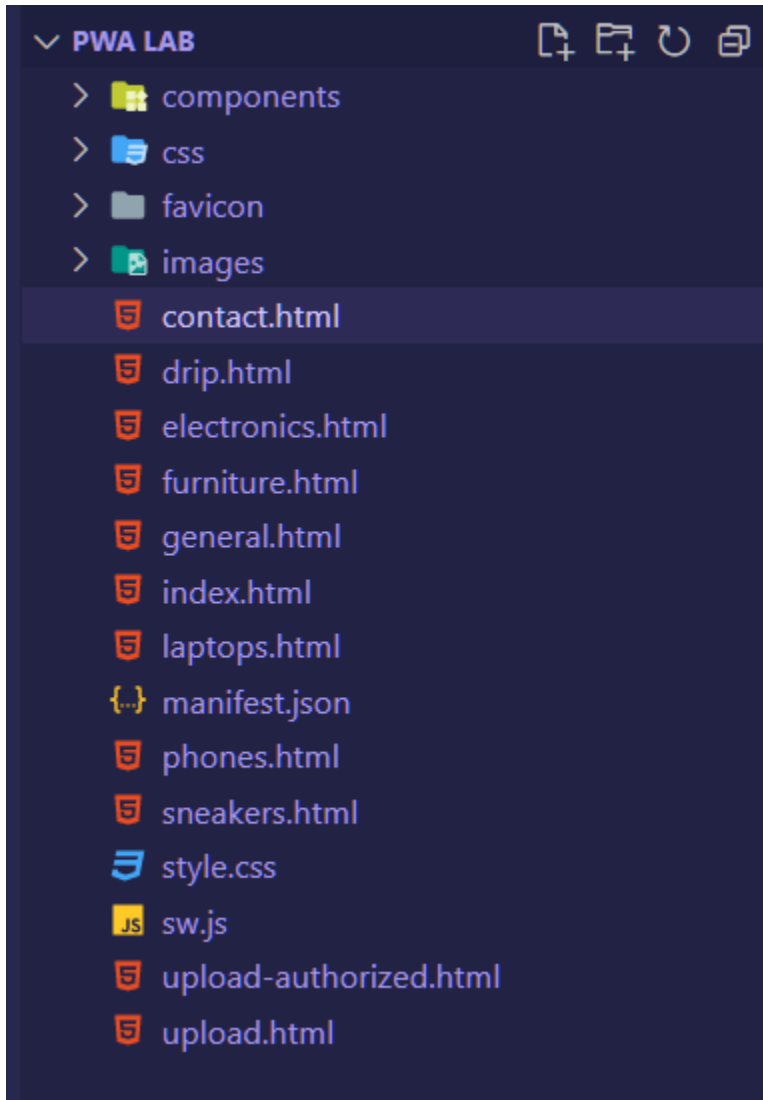
Metadata is information that describes other data or information. It provides context and helps in understanding and organizing the associated data.

• What is "add to home screen feature"?

"Add to homescreen" is a feature in progressive web apps that allows users to save a website to their device's home screen, making it easily accessible like a native mobile app. When the users tap on the icon, the web app opens in full-screen mode, providing a seamless user experience.

Implementation :

- Directory Structure



- Index.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<link rel="shortcut icon"
href="/images/air.png"
type="image/x-icon">
<!-- Primary Meta Tags -->
<title>Ecommerce</title>
<meta charset="utf-8" />
```



```

        <meta    name="viewport"
content="width=device-width,
initial-scale=1" />
        <meta    name="theme-color"
content="#F2EAE3">
        <meta name="title" content="Buy
and sell products Online">
        <meta    name="description"
content="Visit comrademarket.com to
start selling your products now.">
        <meta    property="og:title"
content="Buy and sell products
Online" />
        <meta    property="og:url"
content="https://www.comrademarket
.com/" />
        <meta    property="og:description"
content="Visit comrademarket.com to
start selling your products now.">
        <meta    property="og:image"
content="https://www.linkpicture.com
/q/final_618e23035795e00080017401
_7.png">
        <meta    property="og:type"
content="article" />
        <meta    property="og:image"
content="url_image">

<!-- Open Graph / Facebook -->
        <meta    property="og:type"
content="website">
        <meta    property="og:url"
content="https://www.comrademarket
.com/">
        <meta    property="og:title"
content="Buy and sell products
Online">

```

```

        <meta    property="og:description"
content="Visit comrademarket.com to
start selling your products now.">
        <meta    property="og:image"
content="https://www.linkpicture.com
/q/better.png">

<!-- Twitter -->
        <meta    property="twitter:card"
content="summary_large_image">
        <meta    property="twitter:url"
content="https://www.comrademarket
.com/">
        <meta    property="twitter:title"
content="Buy and sell products
Online">
        <meta    property="twitter:description"
content="Visit comrademarket.com to
start selling your products now.">
        <meta    property="twitter:image"
content="https://www.linkpicture.com
/q/better.png">

        <link
href="https://cdn.jsdelivr.net/npm/boo
tstrap@5.0.0-beta1/dist/css/bootstrap.
min.css" rel="stylesheet" />
        <link
href="https://cdnjs.cloudflare.com/aja
x/libs/font-awesome/4.7.0/css/font-aw
esome.min.css" rel="stylesheet" />
        <link    rel="stylesheet"
href="style.css" />
        <link    rel="manifest"
href="/manifest.json">

</head>

```

```

<body oncontextmenu="return false"
class="snippet-body">
  <script>

window.addEventListener('load',()=>{
  registerSW();
});

  //popup to prompt install
  let deferredPrompt;

window.addEventListener('beforeinstallprompt', (e) => {
  deferredPrompt = e;
});

  //logic for install buttonInstall
  const installApp =
document.getElementById('installApp
');

  installApp.addEventListener('click',
async () => {
    if (deferredPrompt !== null) {
      deferredPrompt.prompt();
      const { outcome } = await
deferredPrompt.userChoice;
      if (outcome === 'accepted') {
        deferredPrompt = null;
      }
    }
  });
  //logic for install buttonInstall

</script>

```

```

<div class="container">
  <nav class="navbar
navbar-expand-lg navbar-light">
    <div class="container-fluid">
      <a class="navbar-brand name"
href="index.html">Ecommerce</a>
      <button class="navbar-toggler"
type="button"
data-bs-toggle="collapse"
data-bs-target="#navbarSupportedCo
ntent"

aria-controls="navbarSupportedConte
nt"
aria-expanded="false"
aria-label="Toggle navigation">
        <span
class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse
navbar-collapse"
id="navbarSupportedContent">
        <ul class="navbar-nav me-auto
mb-2 mb-lg-0">
          <li class="nav-item">
            <a class="nav-link"
href="index.html">Categories</a>
          </li>
          <li class="nav-item"><a
class="nav-link"
href="contact.html">Contact</a></li>
        </ul>
        <a href="/upload.html">
          <button class="btn btn-dark">
            Upload product
            
          </button>
        </a>

```

```

        </div>
    </div>
</nav>
<!--navbar-->

        <div class="d-flex
justify-content-center
align-items-center mt-5">
            <button class="btn
btn-dark">OUR
CATEGORIES</button>
        </div>

        <div class="d-flex
justify-content-center mt-3">
            <span class="text
text-center">Finding Best Products
Now<br />
in Your Fingertips</span>
        </div>
        <div class="row mt-2 g-4">
            <div class="col-md-3">
                <a href="phones.html">
                    <div class="card p-1">
                        <div class="d-flex
justify-content-between
align-items-center p-2">
                            <div class="flex-column lh-1
imagename">
                                <span>Mobile</span>
                            <span>Phones</span>
                        </div>
                    </div>
                    <div>
                        
                            </div>
                        </div>
                    </div>
                </a>
            </div>

            <div class="col-md-3">

                <a href="electronics.html">
                    <div class="card p-2">
                        <div class="d-flex
justify-content-between
align-items-center p-2">
                            <div class="flex-column lh-1
imagename">
                                <span>Tech</span>
                            <span>Accessories</span>
                        </div>
                    </div>
                    <div>
                        <div>
                            </div>
                        </div>
                    </a>
                </div>
                <div class="col-md-3">
                    <a href="./furniture.html">
                        <div class="card p-2">
                            <div class="d-flex
justify-content-between
align-items-center p-2">
                                <div class="flex-column lh-1
imagename">
                                    <span>Cheap</span>
                                <span>Furniture</span>
                            </div>
                        </div>
                    </div>
                    <div>
                        
    </div>
</div>
</div>
</a>
</div>
<div class="col-md-3">
    <a href="/sneakers.html">
        <div class="card p-2">
            <div class="d-flex
justify-content-between
align-items-center p-2">
                <div class="flex-column lh-1
imagename">
                    <span>Dope </span>
<span>sneakers</span>
                </div>
            </div>
            
        </div>
    </div>
</div>
</a>
</div>
<div class="col-md-3">
    <a href="/laptops.html">
        <div class="card p-2">
            <div class="d-flex
justify-content-between
align-items-center p-2">
                <div class="flex-column lh-1
imagename">

```

```

        <span>Affordable</span>
<span>Laptops</span>
    </div>
    <div>
        
    </div>
</div>
</div>
</a>
</div>
<div class="col-md-3">
    <a href="drip.html">
        <div class="card p-2">
            <div class="d-flex
justify-content-between
align-items-center p-2">
                <div class="flex-column lh-1
imagename">
                    <span>Find</span> <span>
the Drip</span>
                </div>
            </div>
            <div>
                
            </div>
        </div>
    </div>
</a>
</div>
<div class="col-md-3">
    <a href="/electronics.html">
        <div class="card p-2">

```

```

        <div class="d-flex
justify-content-between
align-items-center p-2">
        <div class="flex-column lh-1
image">
            <span>Smart</span>
        <span>Electronics</span>
        </div>
        <div>
        </div>
        </div>
        </div>
        </a>
    </div>
    <div class="col-md-3">
        <a href="/general.html">
            <div class="card p-2">
                <div class="d-flex
justify-content-between
align-items-center p-2">
                    <div class="flex-column lh-1
image"><span>General</span>
                </div>
                <div>
                    
                </div>

```

```

        </div>
    </div>
</a>
</div>
</div>
</div>
<br>
<br>
<script>

    async function registerSW(){
        if('serviceWorker' in navigator){
            try{

                                await
navigator.serviceWorker.register('/sw.
js');
            } catch(e){
                console.log(`SW registration
failed`);
            }
        }
    }
</script>
<script type="text/javascript"

src="https://cdn.jsdelivr.net/npm/boot
strap@5.0.0-beta1/dist/js/bootstrap.bu
ndle.min.js"></script>
                                <script
type="text/javascript"></script>
</body>

</html>

```


- manifest.json

```

{
  "name": "Ecommerce PWA",
  "short_name": "Ecommerce",
  "start_url": ".",
  "display": "standalone",
  "background_color": "#fafafa",
  "theme_color": "#FFD567",
  "description": "Preview maskable
icons in the browser.",
  "icons": [
    {
      "src":
"favicon/favicon_512.png",
      "sizes": "512x512",
      "type": "image/png",
      "purpose": "any"
    },
    {
      "src": "favicon/favicon.svg",
      "sizes": "any",
      "type": "image/svg+xml",
      "purpose": "any"
    },
    {
      "src":
"favicon/maskable_512.png",
      "sizes": "512x512",
      "type": "image/png",
      "purpose": "maskable"
    },
    {
      "src": "favicon/maskable.svg",
      "sizes": "any",
      "type": "image/svg+xml",
      "purpose": "maskable"
    },
    {
      "src": "favicon/monochrome_256.png",
      "sizes": "256x256",
      "type": "image/png",
      "purpose": "monochrome"
    }
  ],
  "shortcuts": [
    {
      "name": "Editor",
      "description": "Build your own
maskable icon",
      "url": "/editor",
      "icons": [
        {
          "src":
"favicon/editor_192.png",
          "sizes": "192x192",
          "type": "image/png",
          "purpose": "any monochrome"
        },
        {
          "src": "favicon/editor.svg",
          "sizes": "any",
          "type": "image/svg+xml",
          "purpose": "any monochrome"
        }
      ]
    }
  ]
}

```

- serviceworker.js / sw.js

```
const cacheName = 'comrade-v1';
const staticAssets = [
  './',
  './index.html',
  './about.html',
  './drip.html',
  './electronics.html',
  './furniture.html',
  './general.html',
  './index.html',
  './laptops.html',
  './phones.html',
  './sneakers.html',
  './manifest.json',
  './style.css',
];

self.addEventListener('install', async e
=>{
    const cache = await
    caches.open(cacheName);
    await cache.addAll(staticAssets);
    return self.skipWaiting();
});

self.addEventListener('activate', e => {
    self.clients.claim();
});

self.addEventListener('fetch', async e
=> {
    const req = e.request;
    const url = new URL(req.url);
```

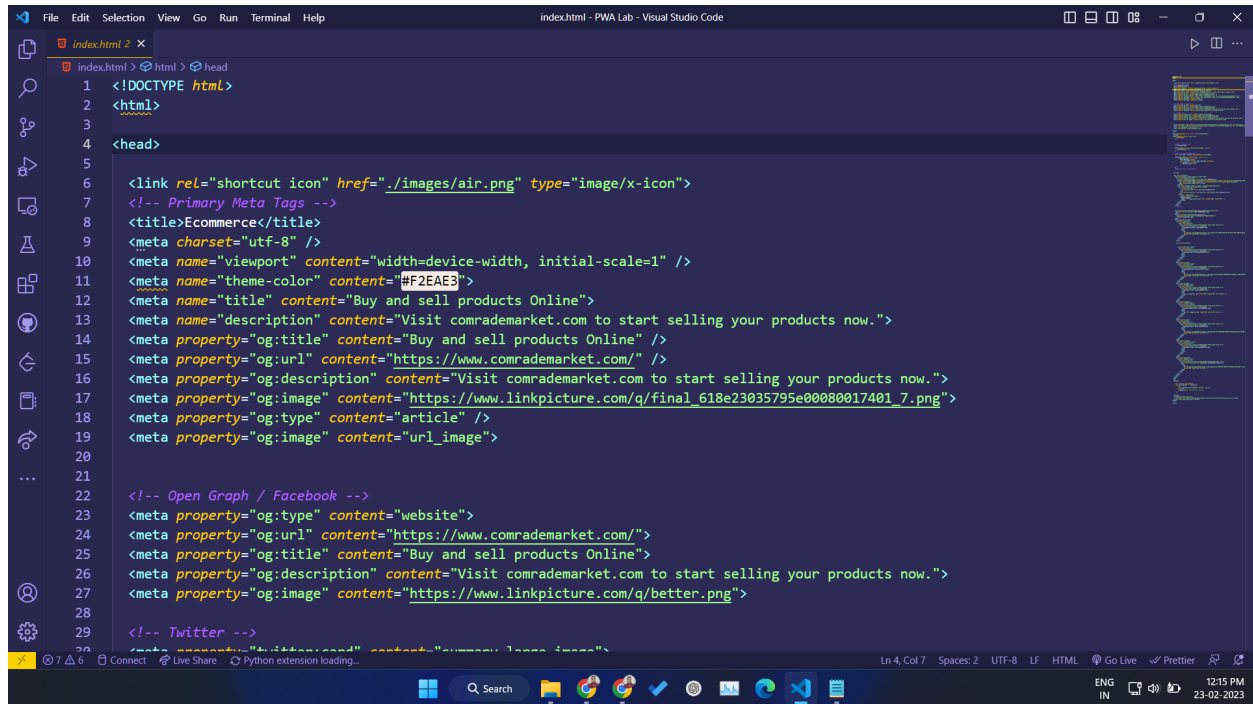
```
    if (url.origin === location.origin) {
        e.respondWith(cacheFirst(req));
    } else {
        e.respondWith(networkAndCache(req
));
    }
});

    async function cacheFirst(req) {
        const cache = await
        caches.open(cacheName);
        const cached = await
        cache.match(req);
        return cached || fetch(req);
    }

    async function
    networkAndCache(req) {
        const cache = await
        caches.open(cacheName);
        try {
            const fresh = await fetch(req);
            await cache.put(req,
            fresh.clone());
            return fresh;
        } catch (e) {
            const cached = await
            cache.match(req);
            return cached;
        }
    }
```

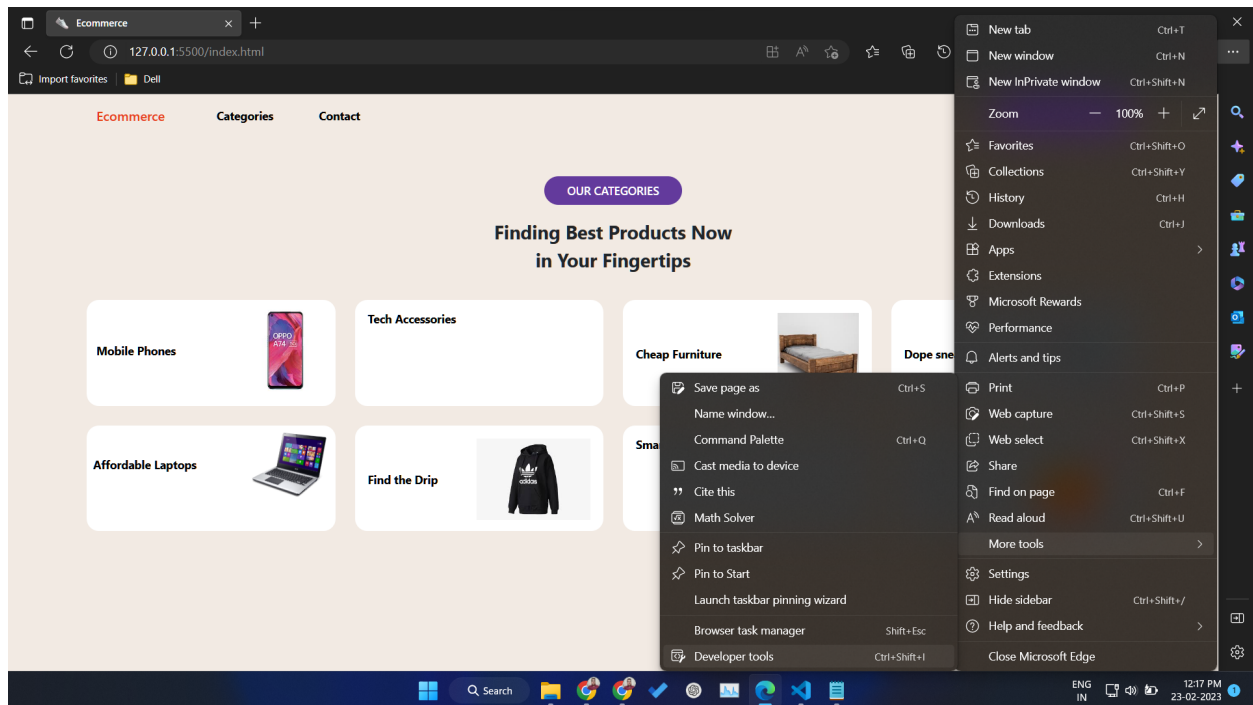
Steps to “add to homescreen feature” :

1. Open folder in VS code and click go live at bottom right corner

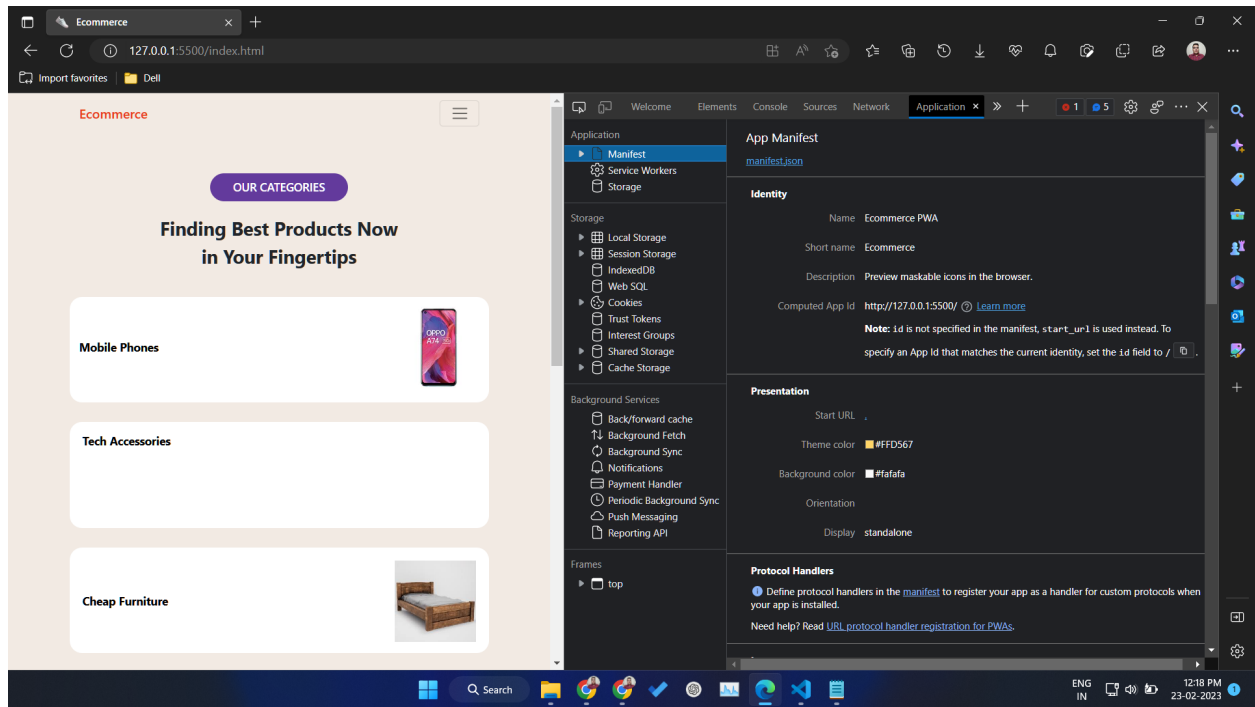


```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5
6 <link rel="shortcut icon" href="/images/air.png" type="image/x-icon">
7 <!-- Primary Meta Tags -->
8 <title>Ecommerce</title>
9 <meta charset="utf-8" />
10 <meta name="viewport" content="width=device-width, initial-scale=1" />
11 <meta name="theme-color" content="#F2EAE3">
12 <meta name="title" content="Buy and sell products Online">
13 <meta name="description" content="Visit comrademarket.com to start selling your products now.">
14 <meta property="og:title" content="Buy and sell products Online" />
15 <meta property="og:url" content="https://www.comrademarket.com/" />
16 <meta property="og:description" content="Visit comrademarket.com to start selling your products now.">
17 <meta property="og:image" content="https://www.linkpicture.com/q/final_618e23035795e00080017401_7.png">
18 <meta property="og:type" content="article" />
19 <meta property="og:image" content="url_image">
20
21
22 <!-- Open Graph / Facebook -->
23 <meta property="og:type" content="website">
24 <meta property="og:url" content="https://www.comrademarket.com/">
25 <meta property="og:title" content="Buy and sell products Online">
26 <meta property="og:description" content="Visit comrademarket.com to start selling your products now.">
27 <meta property="og:image" content="https://www.linkpicture.com/q/better.png">
28
29 <!-- Twitter -->
30 <meta property="twitter:card" content="summary_large_image">
```

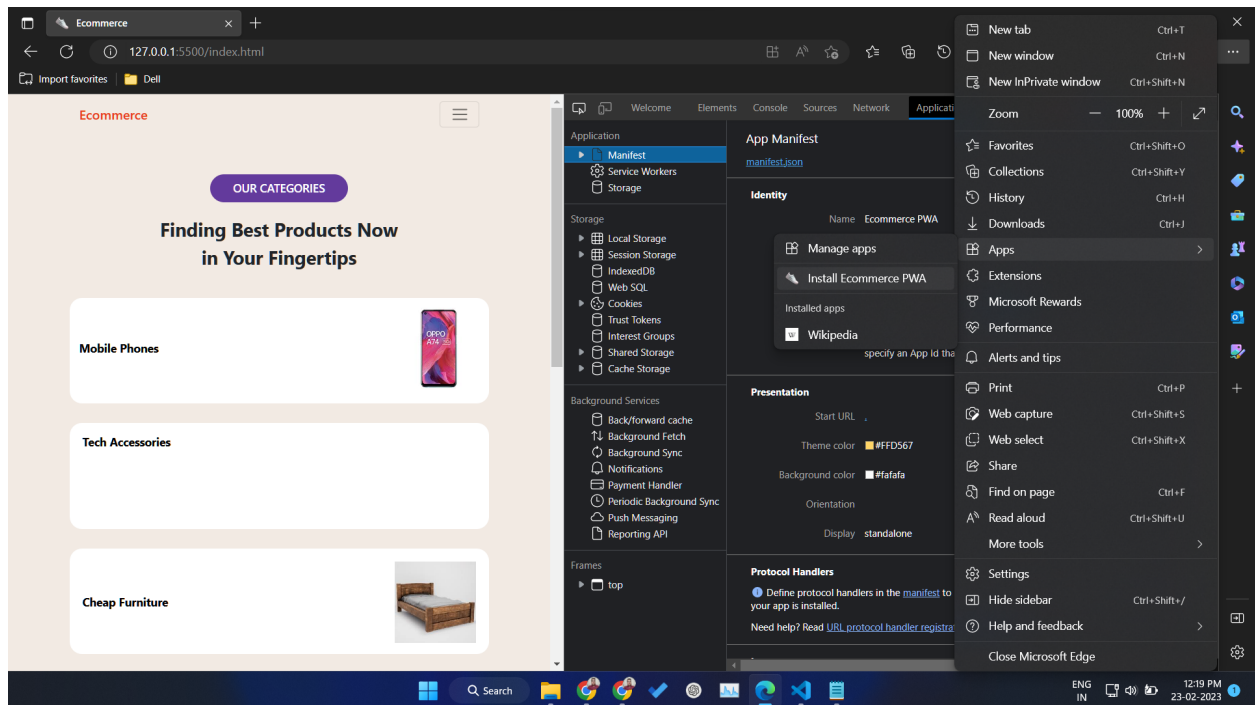
2. Open Developer tools options

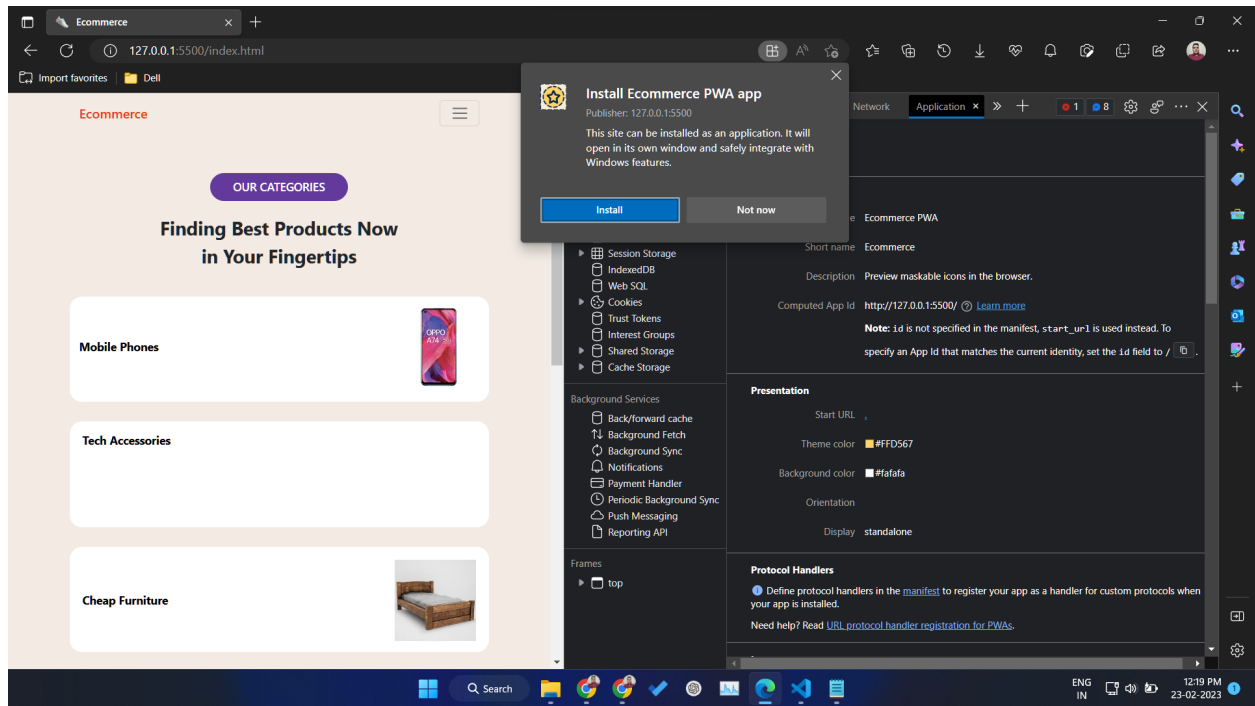


3. Go to Applications on the top navbar



4. Click on 3 dots on top right corner of browser from app option install this site as an app





5. App icon will appear at the bottom

