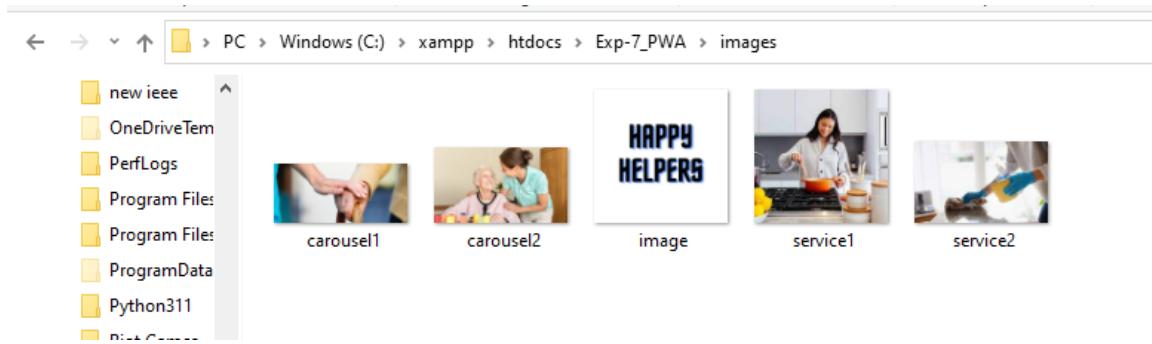


Implementation:

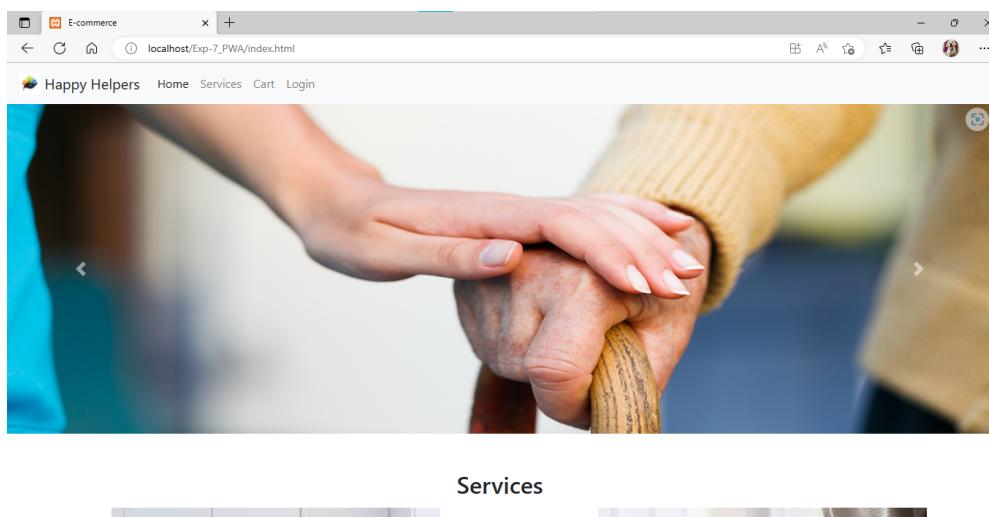
- Keep All your files in one folder

PC > Windows (C:) > xampp > htdocs > Exp-7_PWA >				
	Name	Date modified	Type	Size
new iee	images	3/1/2023 9:16 PM	File folder	
OneDriveItem	app	3/1/2023 8:49 PM	JavaScript File	1 KB
PerfLogs	cart	3/1/2023 9:17 PM	Cascading Style S...	2 KB
Program Files	cart	3/1/2023 8:21 PM	Microsoft Edge H...	2 KB
Program Files	cart	3/1/2023 9:15 PM	JavaScript File	6 KB
ProgramData	index	3/1/2023 9:26 PM	Microsoft Edge H...	6 KB
Python311	manifest.json	3/1/2023 9:17 PM	JSON File	1 KB
Riot Games	products	3/1/2023 9:17 PM	JavaScript File	1 KB
slave-mayuri	README	2/22/2021 11:36 AM	Text Document	2 KB
Snort	serviceworker	3/1/2023 8:28 PM	JavaScript File	2 KB
Snort rules	sw	3/1/2023 8:28 PM	JavaScript File	2 KB
sonarqube-9.				
Strawberry				

- Images used



- My site



Code:

```
Index.html
<!DOCTYPE html>
<html>

<head>
    <link rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiG
    gFAW/dAis6JXm" crossorigin="anonymous">
        <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
    integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/Gp
    GFF93hXpG5KkN" crossorigin="anonymous"></script>
        <script
    src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.mi
    n.js"
    integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFP
    skvXusvfa0b4Q" crossorigin="anonymous"></script>
        <script
    src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.m
    in.js"
    integrity="sha384-JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSffWpi1MquVdAyj
    Uar5+76PVCmYl" crossorigin="anonymous"></script>

    <title>E-commerce</title>
    <meta charset="utf-8">
    <link rel="stylesheet" href="cart.css">
    <script src="products.js"></script>
    <script src="cart.js"></script>
    <script src="app.js"></script>
    <script>
        window.addEventListener('load', () => {
            registerSW();
        });

        // Register the Service Worker
        async function registerSW() {
            if ('serviceWorker' in navigator) {
                try {
                    await navigator
                        .serviceWorker
                        .register('serviceworker.js');
                } catch (e) {

```

```
        console.log('SW registration failed');
    }
}
</script>

<link rel="manifest" href="manifest.json">

<!-- Image and text -->
<nav class="navbar navbar-expand-lg navbar-light bg-light">
    <a class="navbar-brand" href="#">
         Happy Helpers
    </a>

    <button class="navbar-toggler" type="button"
data-toggle="collapse" data-target="#navbarNav"
aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav">
            <li class="nav-item active">
                <a class="nav-link" href="#">Home <span
class="sr-only">(current)</span></a>
            </li>
            <li class="nav-item">
                <a class="nav-link" href="#Products">Services</a>
            </li>
            <li class="nav-item">
                <a class="nav-link" href="#cart-items">Cart</a>
            </li>

            <li class="nav-item">
                <a class="nav-link" href="#cart-items">Login</a>
            </li>
        </ul>
    </div>
</nav>
```

```
<style>
  * {
    box-sizing: border-box;
  }

  .column {
    float: left;
    width: 33.33%;
    padding: 5px;
  }
  /* Clearfix (clear floats) */

  .row::after {
    content: "";
    clear: both;
    display: table;
  }
</style>

</head>

<body>

  <div id="carouselExampleControls" class="carousel slide"
data-ride="carousel">
    <div class="carousel-inner">
      <div class="carousel-item active">
        
      </div>
      <div class="carousel-item">
        
      </div>
    </div>
    <a class="carousel-control-prev"
href="#carouselExampleControls" role="button" data-slide="prev">
      <span class="carousel-control-prev-icon"
aria-hidden="true"></span>
      <span class="sr-only">Previous</span>
    </a>
    <a class="carousel-control-next"
href="#carouselExampleControls" role="button" data-slide="next">
      <span class="carousel-control-next-icon"
aria-hidden="true"></span>
    </a>
  </div>
</body>
```

```

        <span class="sr-only">Next</span>
    </a>
</div>

<h2 id="services" style="text-align: center; margin-top: 50px;">Services</h2>

<div class="row">
    <div class="column">
        
    </div>
    <div class="column">
        
    </div>
</div>

<!-- (A) CART -->
<div id="cart-wrap">
    <!-- (A1) PRODUCTS LIST -->
    <div id="cart-products"></div>
    <h2 style="text-align: center; margin-top: 50px; margin-bottom: 30px;">Your Cart</h2>
    <!-- (A2) CURRENT CART ITEMS -->
    <div id="cart-items"></div>
</div>

<!-- (B2) CART ITEMS -->
<template id="template-cart">
<div class="c-item">
    <input class="c-qty" type="number" min="0">
    <div class="c-name"></div>
    <button class="c-del cart">X</button>
</div>
</template>
<template id="template-cart-checkout">
<div class="c-go">
    <button class="c-empty cart"
onclick="cart.nuke()">Empty</button>
    <a href="form.html"><button type="button" class="c-checkout cart">Continue to Checkout</button></a>

```

```
</div>
</template>
</body>

</html>
```

Manifest.js

```
{
  "name": "Happy Helpers",
  "short_name": "PWA",
  "start_url": "index.html",
  "display": "standalone",
  "scope": ".",
  "description": "This is a PWA tutorial.",
  "icons": [
    {
      "src": "images/image.png",
      "sizes": "500x500",
      "type": "image/png"
    },
    {
      "src": "images/image.png",
      "sizes": "500x500",
      "type": "image/png"
    }
  ]
}
```

Sw.js

```
self.addEventListener('install', function(event) {
  console.log('service worker has been installed');
});

self.addEventListener('activate', function(event) {
  console.log('service worker has been activated');
});

self.addEventListener('fetch', function(event) {
  console.log('fetch successfull');
});
```

```
/*self.addEventListener('push', function (event) {
  var data = "hello";
  if (data.method == "pushMessage") { console.log("Push notification sent");
    event.waitUntil(self.registration.showNotification("Omkar Sweets Corner", { body: "hi"
  })) }
}

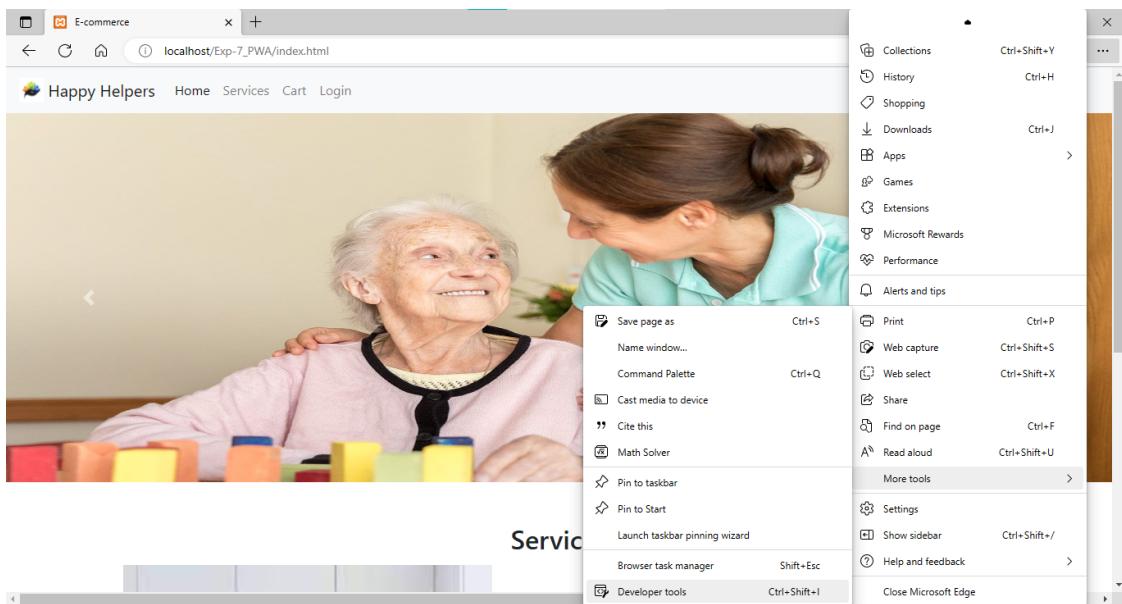
*/



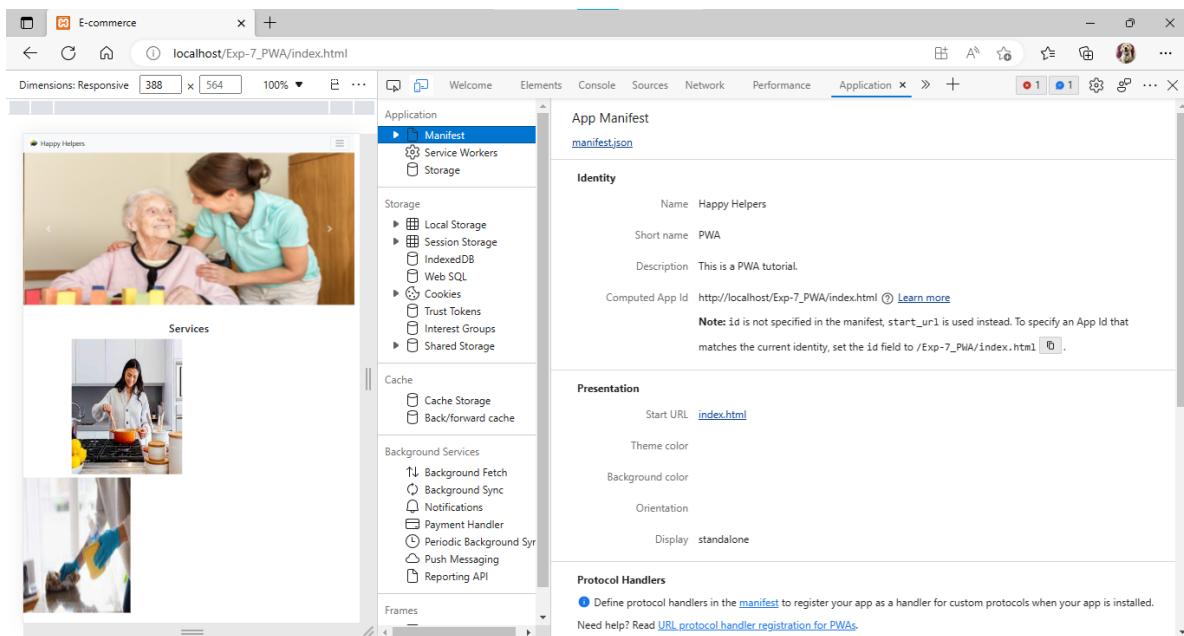
self.addEventListener('push', (event) => {
  const options = {
    body: 'This notification was generated from a push!',
    icon: '',
    data: {
      dateOfArrival: Date.now(),
      primaryKey: '2'
    },
    actions: [
      {
        action: 'explore',
        title: 'Explore this new world',
        icon: ''
      },
      {
        action: 'close',
        title: 'Close',
        icon: ''
      }
    ]
  };
  event.waitUntil(
    self.registration.showNotification('Title', options)
  )
});
```

Output:

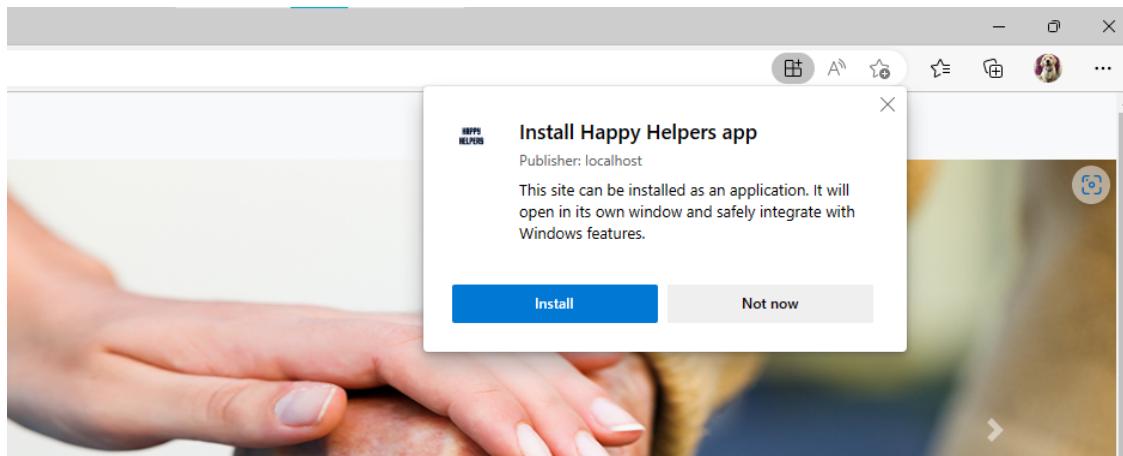
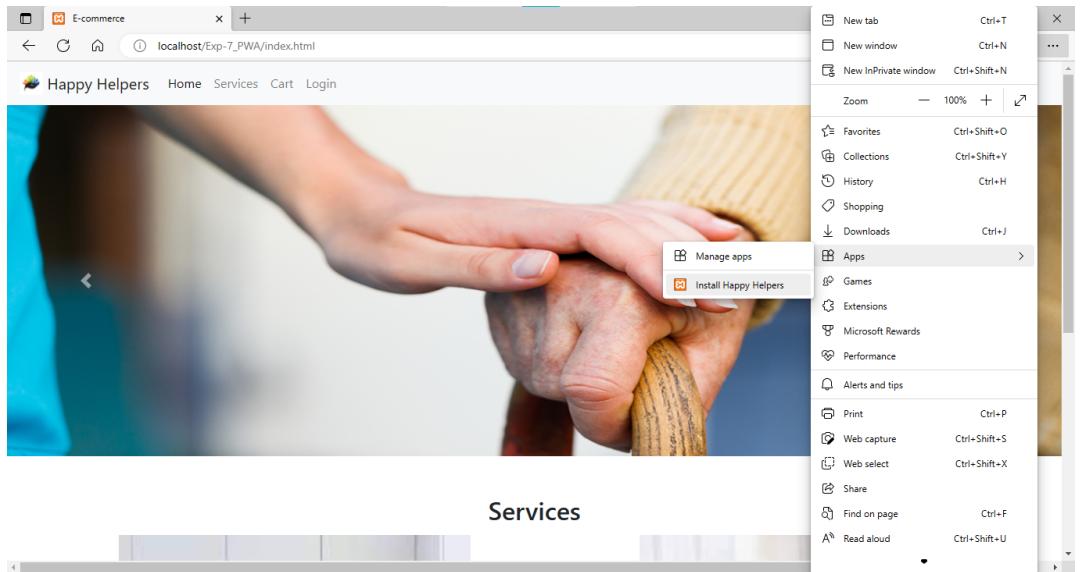
- Go to More tools and then “developers tool”



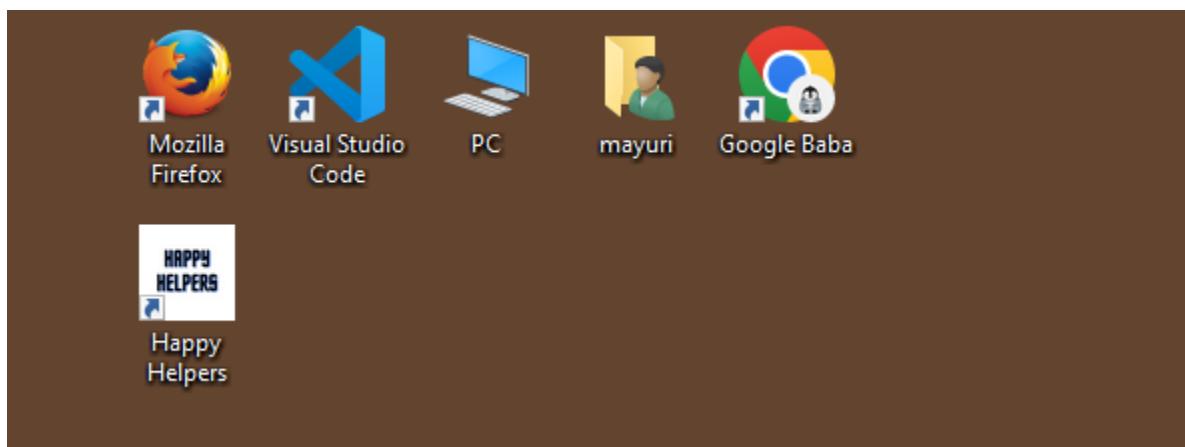
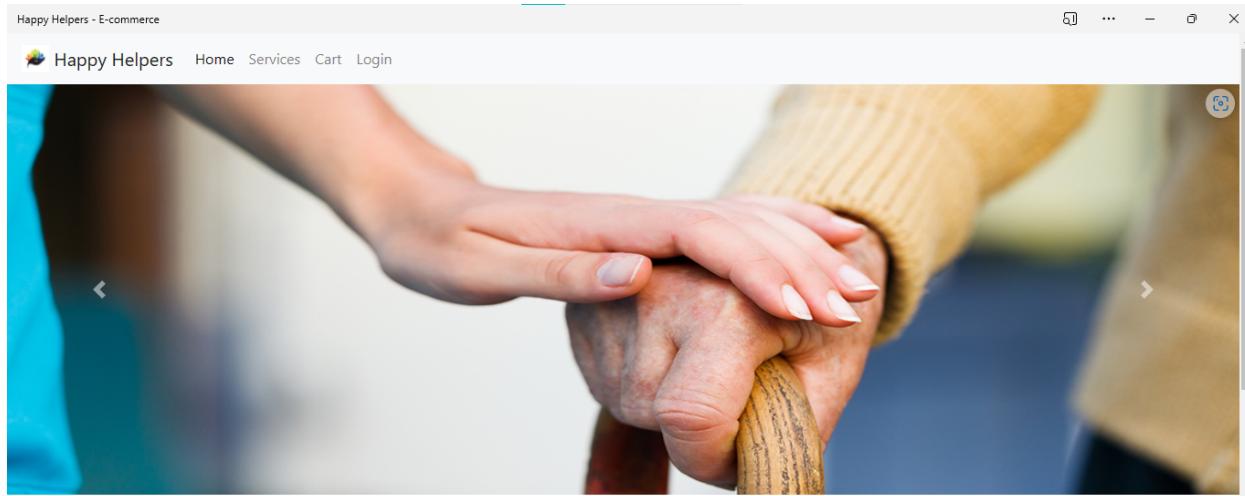
- Click on “Application”



- Manifest has been detected
- Go to “Apps”
- Click on “Install Happy Helpers”



- Our App has been downloaded.



Conclusion: Thus we learnt about PWA and about its application. We used the concept of PWA to detect the manifest and download our website in app format. We created a manifest.json file and serviceworker.js file.