

Name -Sejal Maurya
Roll No -35

Div -D15A
Batch -B

EXPERIMENT NO -07

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

Theory:

Regular Web App - A regular web app is a website that is designed to be accessible on all mobile devices such that the content gets fit as per the device screen. It is designed using a web technology stack (HTML, CSS, JavaScript, Ruby, etc.) and operates via a browser. They various native-device features and functionalities. However, it entirely depends on the browser the user is using. In other words, it might be possible that you can access a native-device feature on Chrome but not on Safari or Mozilla Firefox because the browsers are incompatible with that feature.

Progressive Web App - Progressive Web App (PWA) is a regular web app, but some extras enable it to deliver an excellent user experience. It is a perfect blend of desktop and mobile application experience to give both platforms to the end-users.

Difference between PWAs vs. Regular Web Apps: A Progressive Web is different and better than a Regular Web app with features like:

- 1. Native Experience** Though a PWA runs on web technologies (HTML, CSS, JavaScript) like a Regular web app, it gives user experience like a native mobile application. It can use most native device features, including push notifications, without relying on the browser or any other entity. It offers seamless and integrated user experience that it is quite tough for one to differentiate between a PWA and a Native application by considering its look and feel.
- 2. Ease of Access** Unlike other mobile apps, PWAs do not demand longer download time and make memory space available for installing the applications. The PWAs can be shared and installed by a link, which cuts down the number of steps to install and use. These applications can easily keep an app icon on the user's home screen, making the app easily accessible to the users and helps the brands remain in the users' minds, and improving the chances of interaction.
- 3. Faster Services** PWAs can cache the data and serve the user with text stylesheets, images, and other web content even before the page loads completely. This lowers the waiting time for the end-users and helps the brands improve the user engagement and retention rate, which eventually adds value to their business.
- 4. Engaging Approach** - As already shared, the PWAs can employ push notifications and other native device features more efficiently. Their interaction does not depend on the browser user uses. This eventually improves the chances of notifying the user regarding your services, offers, and other options related to your brand and keeping them hooked to your brand. In simpler words, PWAs let you maintain the user engagement and retention rate.

5. Updated Real-Time Data Access Another plus point of PWAs is that these apps get updated on their own. They do not demand the end-users to go to the App Store or other such platforms to download the update and wait until installed. In this app type, the web app developers can push the live update from the server, which reaches the apps residing on the user's devices automatically. Therefore, it is easier for the mobile app developer to provide the best of the updated functionalities and services to the end-users without forcing them to update their app..

The main features are: Progressive

- They work for every user, regardless of the browser chosen because they are built at the base with progressive improvement principles. Responsive
- They adapt to the various screen sizes: desktop, mobile, tablet, or dimensions that can later become available.
- They behave with the user as if they were native apps, in terms of interaction and navigation. Updated Information is always up-to-date thanks to the data update process errored by service workers.

Code And Output

Index1.html

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="manifest" href="manifest.json">
<title>JKS</title>
<link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
<link rel="stylesheet" type="text/css" href="css/font-awesome.min.css">
<link rel="stylesheet" type="text/css" href="css/bistro-icons.css">
<link rel="stylesheet" type="text/css" href="css/animate.min.css">
<link rel="stylesheet" type="text/css" href="css/settings.css">

<!--[if lt IE 9]>
<script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
<![endif]-->
</head>
<body>
<!--Loader-->
<div class="loader">
<div class="cssload-container">
<div class="cssload-circle"></div>
<div class="cssload-circle"></div>
</div>
```

```

</div>
<!--Topbar-->
<div class="topbar">
  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <p class="pull-left hidden-xs">JKS Foods and Restaurant, the Best in Town</p>
        <p class="pull-right"><i class="fa fa-phone"></i>Order Online +91-892-808-5056</p>
      </div>
    </div>
  </div>
</div>
<!--Header-->
<header id="main-navigation">
  <div id="navigation" data-spy="affix" data-offset-top="20">
    <div class="container">
      <div class="row">
        <div class="col-md-12">
          <nav class="navbar navbar-default">
            <div class="navbar-header">
              <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#fixed-collapse-navbar" aria-expanded="false">
                <span class="icon-bar top-bar"></span> <span class="icon-bar middle-bar"></span>
                <span class="icon-bar bottom-bar"></span>
              </button>
              <a class="navbar-brand" href="index.html"></a>
            </div>

            <div id="fixed-collapse-navbar" class="navbar-collapse collapse navbar-right">
              <ul class="nav navbar-nav">
                <li>
                  <a href="index.html">Home</a>
                </li>
                <li><a href="food.html">Our Food</a></li>

                <li><a href="about.html">About Us</a></li>
                <li><a href="faq.html">FAQ</a></li>

                <li><a href="order.html">Order Now</a></li>
              </ul>
            </div>
          </nav>
        </div>
      </div>
    </div>
  </div>
</header>

```

```

        </div>
    </nav>
    </div>
    </div>
    </div>
    </div>
</header>
<!--Features Section-->
<section class="feature_wrap padding-half" id="specialities">
    <div class="container">
        <div class="row">
            <div class="col-md-12 text-center">
                <h2 class="heading ">Our &nbsp; Specialities</h2>
                <hr class="heading_space">
            </div>
        </div>
        <div class="row">
            <div class="col-md-3 col-sm-6 feature text-center">
                <i class="icon-glass"></i>
                <h3><a href="order.html">Dinner &amp; Dessert</a></h3>
                <p> Enjoy Delicious Food!</p>
            </div>
            <div class="col-md-3 col-sm-6 feature text-center">
                <i class="icon-coffee"></i>
                <h3><a href="order.html">Breakfast</a></h3>
                <p> Enjoy Delicious Food!</p>
            </div>
            <div class="col-md-3 col-sm-6 feature text-center">
                <i class="icon-glass"></i>
                <h3><a href="order.html">Ice Shakes</a></h3>
                <p> Enjoy Delicious Food!</p>
            </div>
            <div class="col-md-3 col-sm-6 feature text-center">
                <i class="icon-coffee"></i>
                <h3><a href="order.html">Beverges</a></h3>
                <p> Enjoy Delicious Food!</p>
            </div>
        </div>
    </div>
</section>

```

<!--Services plus working hours-->

```
<section id="services" class="padding-bottom">
<div class="container">
<div class="row">
<div class="col-md-8">
<h2 class="heading">Featured &nbsp; Food</h2>
<hr class="heading_space">
<div class="slider_wrap">
<div id="service-slider" class="owl-carousel">
<div class="item">
<div class="item_inner">
<div class="image">

<a href="order.html"></a>
</div>
<h3><a href="order.html">Thai Chicken Chilly</a></h3>
<p>Enjoy Delicious Food!</p>
</div>
</div>
<div class="item">
<div class="item_inner">
<div class="image">

<a href="order.html"></a>
</div>
<h3><a href="order.html">Celeriac Soup & Beer</a></h3>
<p>Enjoy Delicious Food!</p>
</div>
</div>
<div class="item">
<div class="item_inner">
<div class="image">

<a href="order.html"></a>
</div>
<h3><a href="order.html">Tex Mex Chicken</a></h3>
<p>Enjoy Delicious Food!</p>
</div>
</div>
<div class="item">
<div class="item_inner">
<div class="image">

<a href="order.html"></a>
</div>
```

```

<h3><a href="order.html">Baked Potato Jackets</a></h3>
<p>Enjoy Delicious Food!</p>
</div>
</div>
</div>
</div>
</div>
<div class="col-md-4">
<h2 class="heading">Our &nbsp; Menu</h2>
<hr class="heading_space">
<ul class="menu_widget">
<li>Classic Nachos<span>INR 499.00</span></li>
<li>Nachos Grande<span>INR 249.00</span></li>
<li>Avocado Shell Stuffed<span>INR 150.00</span></li>
<li>Stuffed Mushroom<span>INR 199.00</span></li>
<li>Baked Potato Jackets<span>INR 99.00</span></li>
<li>Mexican Taco<span>INR 899.00</span></li>
<li>Tex-Mex Chicken<span>INR 1250.00</span></li>
<li>Quesadillas Acapulco<span>INR 399.00</span></li>
</ul>
<h3>Other Special Menu</h3>
<p>Enjoy Delicious Food!</p>
</div>
</div>
</div>
</section>

```

```

<!-- image with content -->
<section class="info_section paralax">
<div class="container">
<div class="row">
<div class="col-md-2"> </div>
<div class="col-md-8">
<div class="text-center">
<h2 class="heading_space">HOT Deal of the Day</h2>
<p class="heading_space detail">Enjoy Delicious Food!</p>
<a href="order.html" class="btn-common-white page-scroll">Order Now</a>
</div>
</div>
<div class="col-md-2"></div>
</div>
</div>
</section>

```

```

<!-- Food Gallery -->
<section id="gallery" class="padding">
  <div class="container">
    <div class="row">
      <div class="col-md-12 text-center">
        <h2 class="heading ">Delicious &nbsp; Food</h2>
        <hr class="heading_space">
        <div class="work-filter">
          <ul class="text-center">
            <li><a href="javascript:;" data-filter="all" class="active filter">All Food</a></li>
            <li><a href="javascript:;" data-filter=".starters" class="filter">Starters</a></li>
            <li><a href="javascript:;" data-filter=".drinks" class="filter">Drinks & Beverges</a></li>
            <li><a href="javascript:;" data-filter=".dinner" class="filter"> Dinner</a></li>
            <li><a href="javascript:;" data-filter=".lunch" class="filter">Breakfast & Lunch</a></li>
          </ul>
        </div>
      </div>
    </div>
    <div class="row">
      <div class="zero-grid">
        <div class="wrap-container">
          <div class="wrap-content clearfix home-gallery">
            <div class="col-1-4 mix work-item drinks">
              <div class="wrap-col">
                <div class="item-container">
                  <div class="image">
                    
                  <div class="overlay">
                    <a class="video fancybox iframe overlay-inner"
href="https://player.vimeo.com/video/94224205?autoplay=1"><i class="icon-eye6"></i></a>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <div class="col-1-4 mix work-item starters">
            <div class="wrap-col">
              <div class="item-container">
                <div class="image">
                  
                <div class="overlay">
                  <a class="fancybox overlay-inner" href="images/galler2.jpg"
data-fancybox-group="gallery"><i class="icon-eye6"></i></a>
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</section>

```

```
</div>
</div>
</div>
</div>
</div>
</div>
<div class="col-1-4 mix work-item dinner">
<div class="wrap-col">
<div class="item-container">
<div class="image">

<div class="overlay">
<a class="fancybox overlay-inner" href="images/gallery3.jpg"
data-fancybox-group="gallery"><i class=" icon-eye6"></i></a>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="col-1-4 mix work-item drinks">
<div class="wrap-col">
<div class="item-container">
<div class="image">

<div class="overlay">
<a class="fancybox overlay-inner" href="images/gallery4.jpg"
data-fancybox-group="gallery"><i class=" icon-eye6"></i></a>
</div>
</div>
</div>
</div>
</div>
<div class="col-1-4 mix work-item dinner">
<div class="wrap-col">
<div class="item-container">
<div class="image">

<div class="overlay">
<a class="fancybox overlay-inner" href="images/gallery5.jpg"
data-fancybox-group="gallery"><i class=" icon-eye6"></i></a>
</div>
</div>
</div>
</div>
</div>
```

```
<div class="col-1-4 mix work-item lunch">
  <div class="wrap-col">
    <div class="item-container">
      <div class="image">
        
      <div class="overlay">
        <a class="fancybox overlay-inner" href="images/gallery6.jpg"
          data-fancybox-group="gallery"><i class=" icon-eye6"></i></a>
      </div>
    </div>
    </div>
  </div>
</div>

<div class="col-1-4 mix work-item starters">
  <div class="wrap-col">
    <div class="item-container">
      <div class="image">
        
      <div class="overlay">
        <a class="fancybox overlay-inner" href="images/gallery7.jpg"
          data-fancybox-group="gallery"><i class=" icon-eye6"></i></a>
      </div>
    </div>
    </div>
  </div>
</div>

<div class="col-1-4 mix work-item starters">
  <div class="wrap-col">
    <div class="item-container">
      <div class="image">
        
      <div class="overlay">
        <a class="video fancyboxiframe overlay-inner"
          href="https://player.vimeo.com/video/94224205?autoplay=1"><i class=" icon-eye6"></i></a>
      </div>
    </div>
    </div>
  </div>
</div>

</div>
</div>
</div>
```

```
</section>

<!--Featured Recipes -->
<section id="news" class="bg_grey padding">
<div class="container">
<div class="row">
<div class="col-md-12 text-center">
<h2 class="heading">Featured &nbsp; Food &nbsp; Receipes</h2>
<hr class="heading_space">
</div>
</div>
<div class="row">
<div class="col-md-12">
<div class="cheffs_wrap_slider">
<div id="news-slider" class="owl-carousel">
<div class="item">
<div class="news_content">

<div class="date_comment">
<span>22<small>apr</small></span>
<a href="#"></i> 5</i> 5
```



```

<div class="col-md-3 col-sm-6 footer_column">
  <h4 class="heading">Quick Links</h4>
  <hr class="half_space">
  <ul class="widget_links">
    <li><a href="index.html">Home</a></li>
    <li><a href="food.html">Our Food</a></li>
    <li><a href="about.html">About Us</a></li>

    <li><a href="faq.html">Faq's</a></li>
    <li><a href="order.html">Order Now</a></li>

  </ul>
</div>
<div class="col-md-3 col-sm-6 footer_column">
  <h4 class="heading">Newsletter</h4>
  <hr class="half_space">
  <p class="icon"><i class="icon-dollar"></i>Sign up with your name and email to get
  updates fresh updates.</p>
  <div id="result1" class="text-center"></div>

  <form
action="http://themesindustry.us13.list-manage.com/subscribe/post-json?u=4d80221ea53f3a44
87ddeb93&id=494727d648&c=?" method="get" onSubmit="return false" class="newsletter">
    <div class="form-group">
      <input type="email" placeholder="E-mail Address" required name="EMAIL" id="EMAIL"
class="form-control" />
    </div>
    <div class="form-group">
      <input type="submit" class="btn-submit button3" value="Subscribe" />
    </div>
  </form>
</div>
<div class="col-md-3 col-sm-6 footer_column">
  <h4 class="heading">Get in Touch</h4>
  <hr class="half_space">
  <p></p>
  <p class="address"><i class="icon-location"></i>JKS, Opposite S.L.Raheja Hospital,
  Mahim Causeway, Mahim (West), Mumbai, Maharashtra 400016.</p>
  <p class="address"><i class="fa fa-phone"></i>(+91) 892 808 5056</p>
  <p class="address"><i class="icon-dollar"></i><a
href="office@jks.com">office@jks.com</a></p>
  </div>
</div>
<div class="row">

```

```

<div class="col-md-12">
  <div class="copyright clearfix">
    <p>Copyright © 2020 JKS. All Right Reserved</p>
    <ul class="social_icon">
      <li><a href="#" class="facebook"><i class="icon-facebook5"></i></a></li>
      <li><a href="#" class="twitter"><i class="icon-twitter4"></i></a></li>
      <li><a href="#" class="google"><i class="icon-google"></i></a></li>
    </ul>
  </div>
</div>
</div>
</div>
</div>
</footer>

<a href="#" id="back-top"><i class="fa fa-angle-up fa-2x"></i></a>

<script src="js/jquery-2.2.3.js" type="text/javascript"></script>
<script src="js/bootstrap.min.js" type="text/javascript"></script>
<script src="js/jquery.themepunch.tools.min.js"></script>
<script src="js/jquery.themepunch.revolution.min.js"></script>
<script src="js/revolution.extension.layeranimation.min.js"></script>
<script src="js/revolution.extension.navigation.min.js"></script>
<script src="js/revolution.extension.parallax.min.js"></script>
<script src="js/revolution.extension.slideanims.min.js"></script>
<script src="js/revolution.extension.video.min.js"></script>
</body>
</html>

```

Manifest.json

```
{
  "name": "foodorderingapp",
  "short_name": "app",
  "start_url": "index1.html",
  "display": "standalone",
  "background_color": "#5900b3",
  "theme_color": "#5900b3",
  "scope": ".",
  "description": "This is a Fast food delivery app.",
  "icons": [
    {
      "src": "images/image1.jpg",
      "sizes": "192x192",
      "type": "image/jpg"
    },
    {

```

```

    "src": "images/image2.jpg",
    "sizes": "512x512",
    "type": "image/jpg"
  }
]
}

```

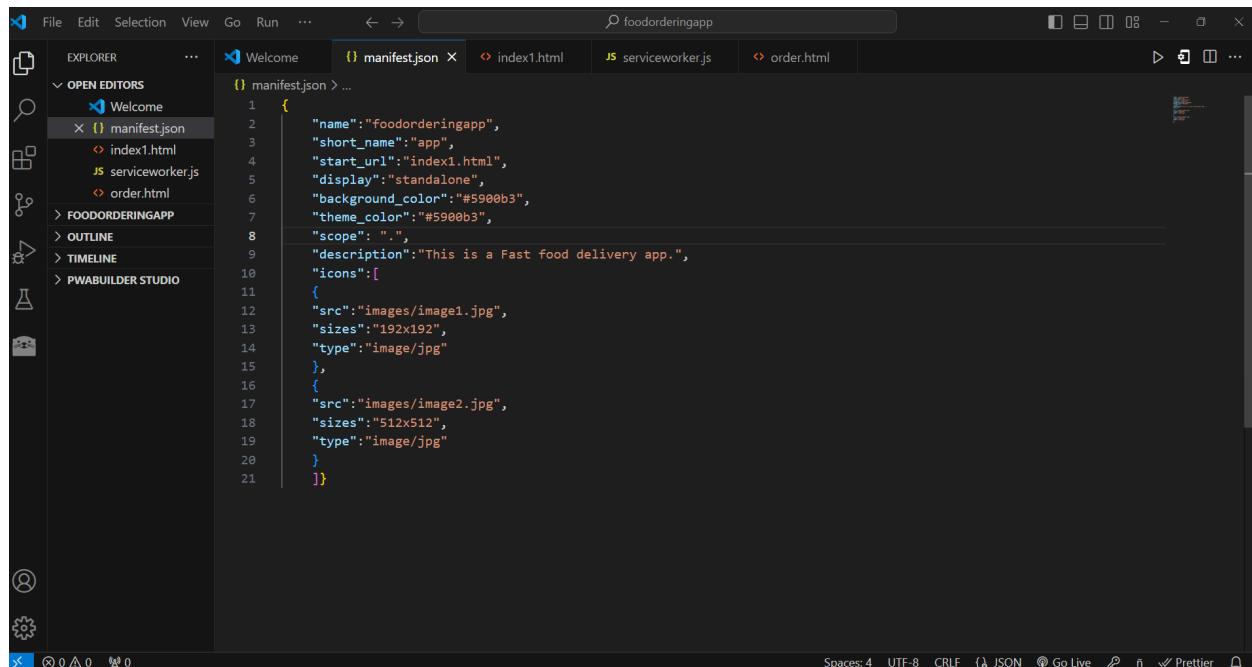
ServiceWorker.json

```

var staticCacheName = "foodorderingapp";
self.addEventListener("install", function (e) {
  e.waitUntil(
    caches.open(staticCacheName).then(function (cache) {
      return cache.addAll(["/"]);
    })
  );
});
self.addEventListener("fetch", function (event) {
  console.log(event.request.url);
  event.respondWith(
    caches.match(event.request).then(function (response) {
      return response || fetch(event.request);
    })
  );
});

```

Folder Structure



The screenshot shows a code editor interface with the following details:

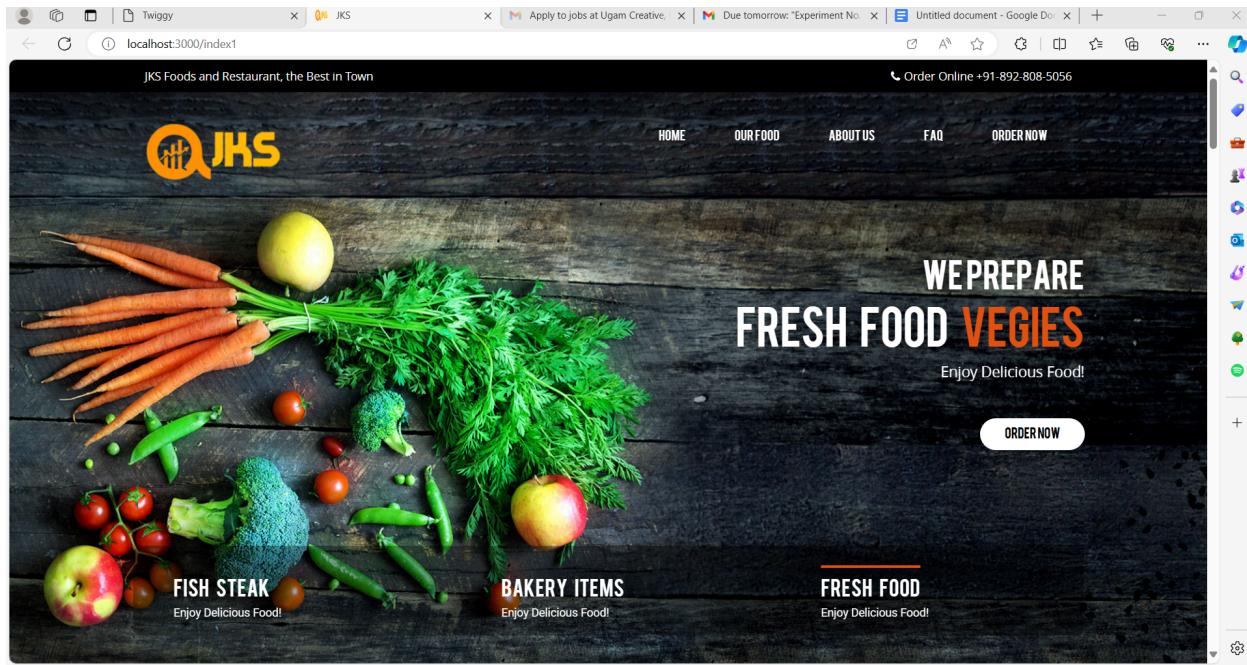
- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Search Bar:** foodorderingapp
- Explorer:**
 - OPEN EDITORS
 - Welcome
 - manifest.json
 - index1.html
 - serviceworker.js
 - order.html
 - FOODORDERINGAPP
 - OUTLINE
 - TIMELINE
 - PWABUILDER STUDIO
- Manifest JSON Content:**

```

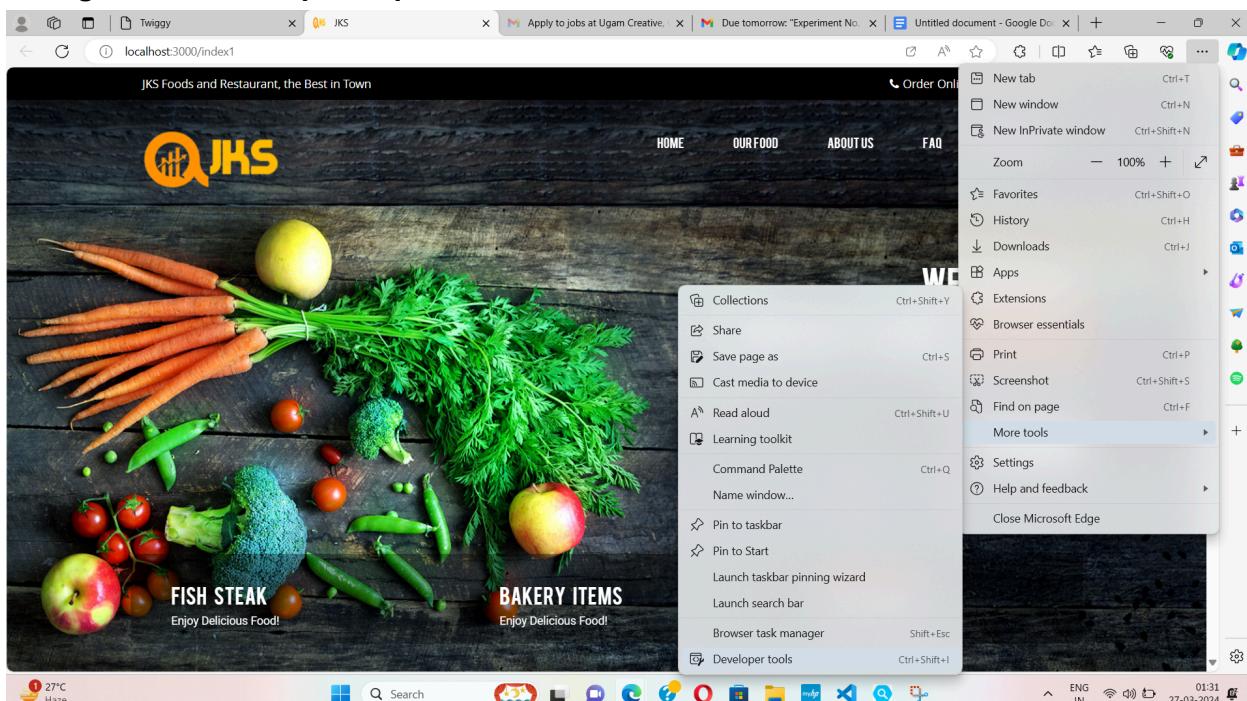
1  {
2    "name": "Foodorderingapp",
3    "short_name": "app",
4    "start_url": "index1.html",
5    "display": "standalone",
6    "background_color": "#5900b3",
7    "theme_color": "#5900b3",
8    "scope": ".",
9    "description": "This is a Fast food delivery app.",
10   "icons": [
11     {
12       "src": "images/image1.jpg",
13       "sizes": "192x192",
14       "type": "image/jpg"
15     },
16     {
17       "src": "images/image2.jpg",
18       "sizes": "512x512",
19       "type": "image/jpg"
20     }
21   ]
}

```
- Status Bar:** Spaces: 4, UTF-8, CRLF, JSON, Go Live, Prettier

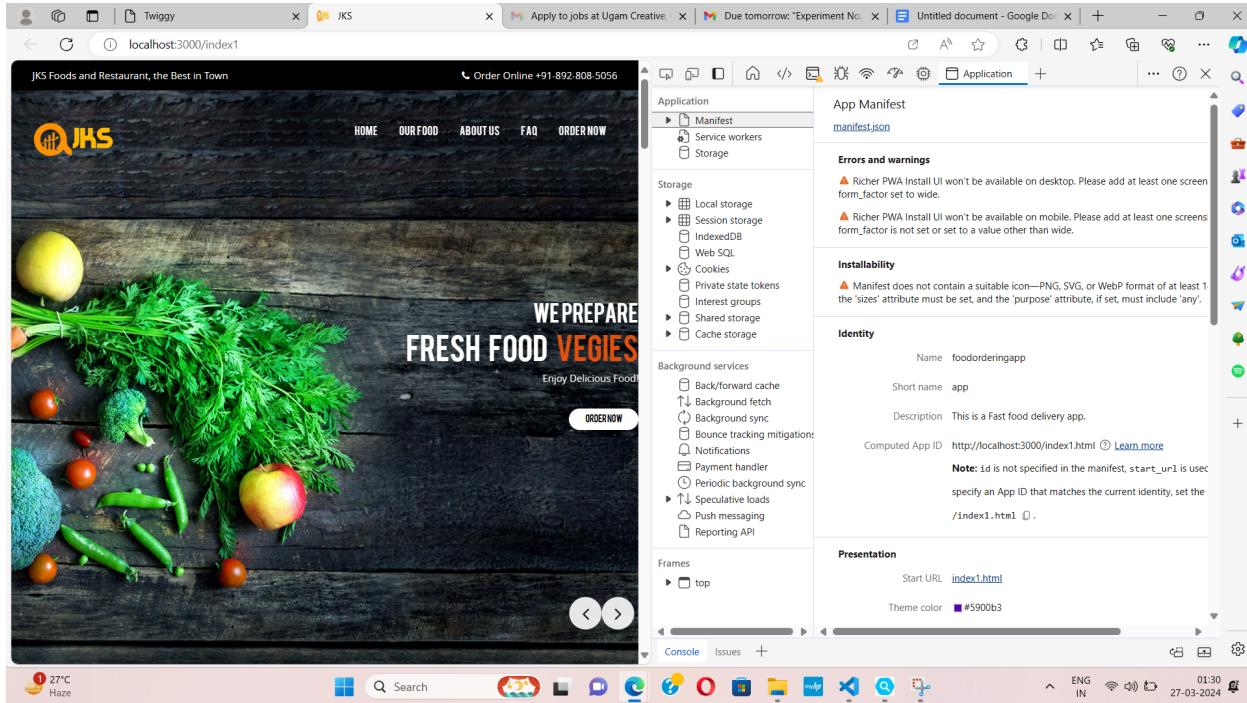
Start the server



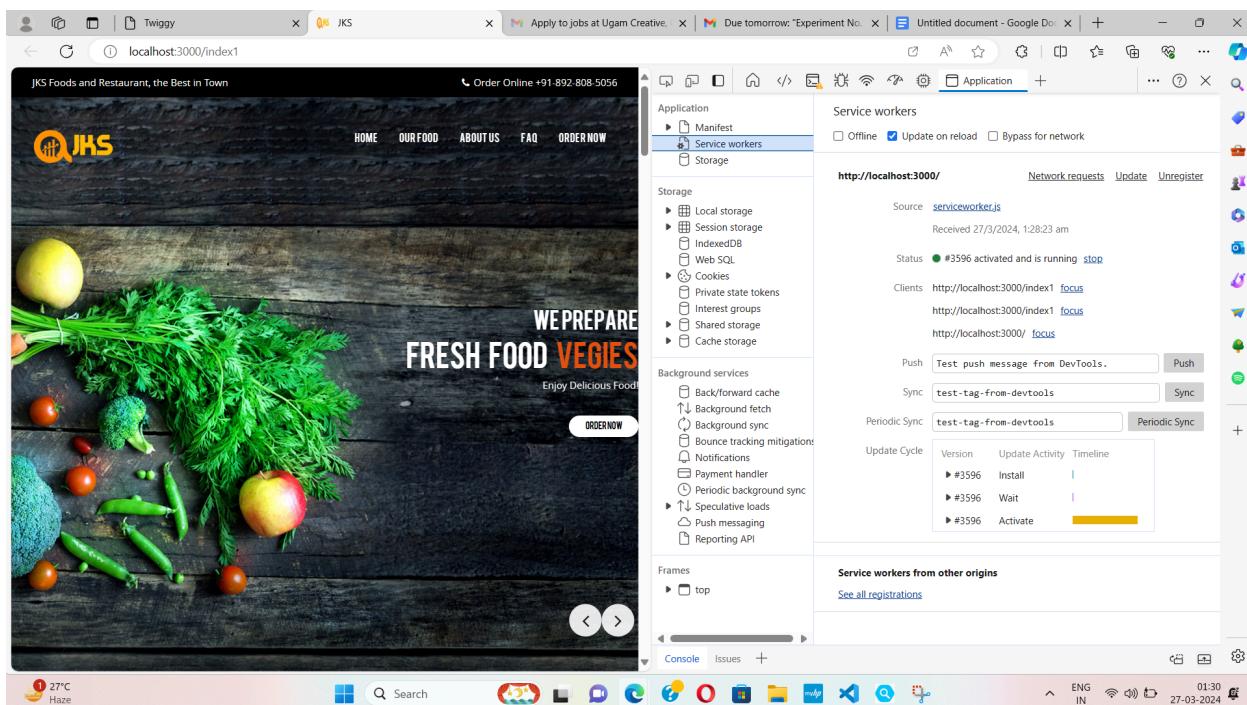
Going To The Developers Option



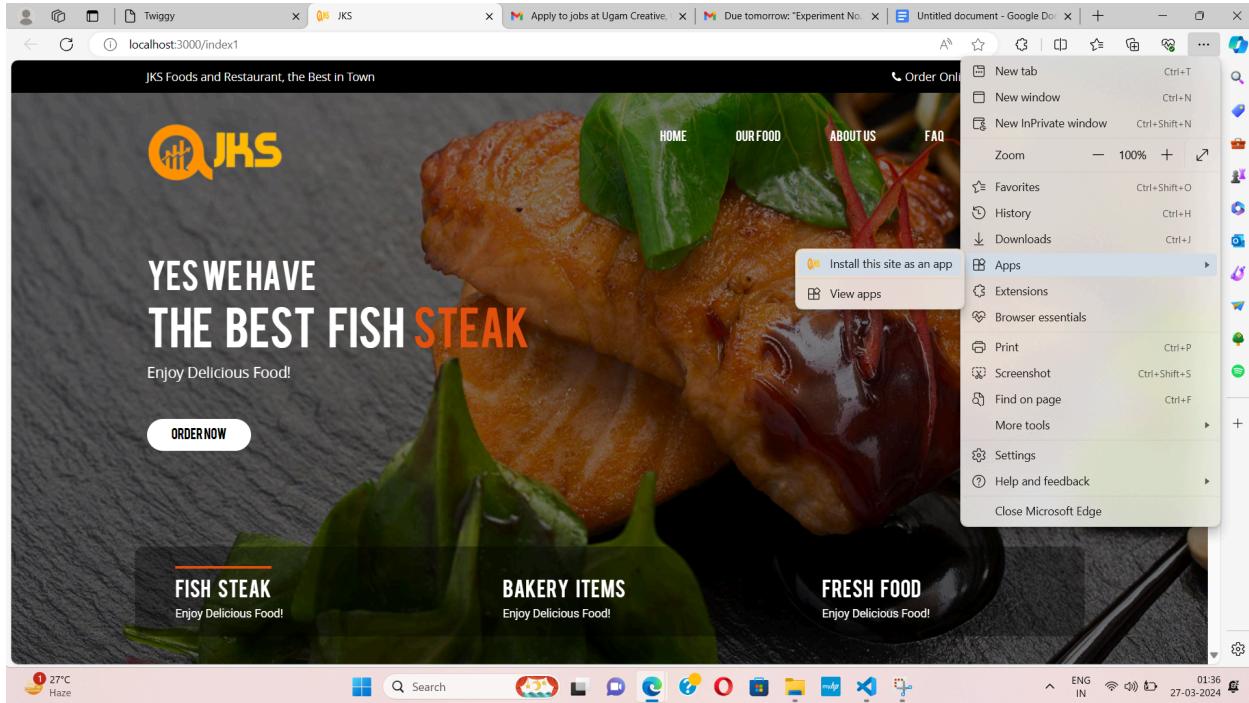
Application



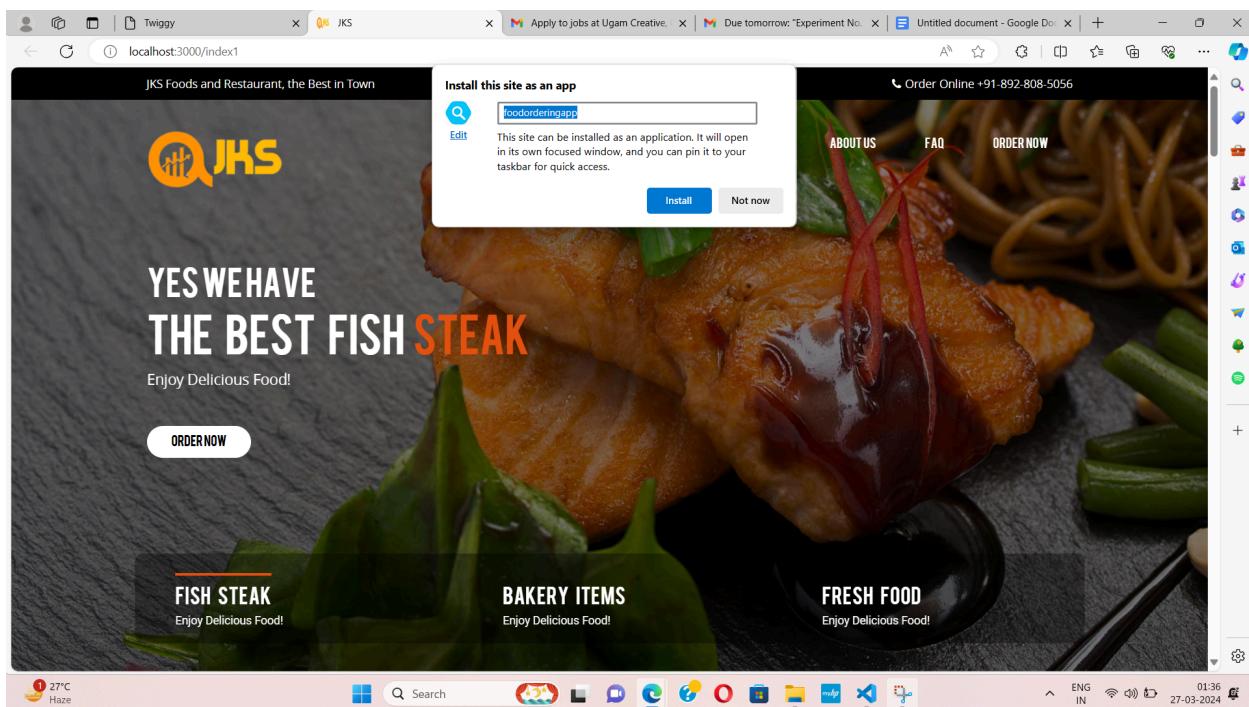
Server-workers

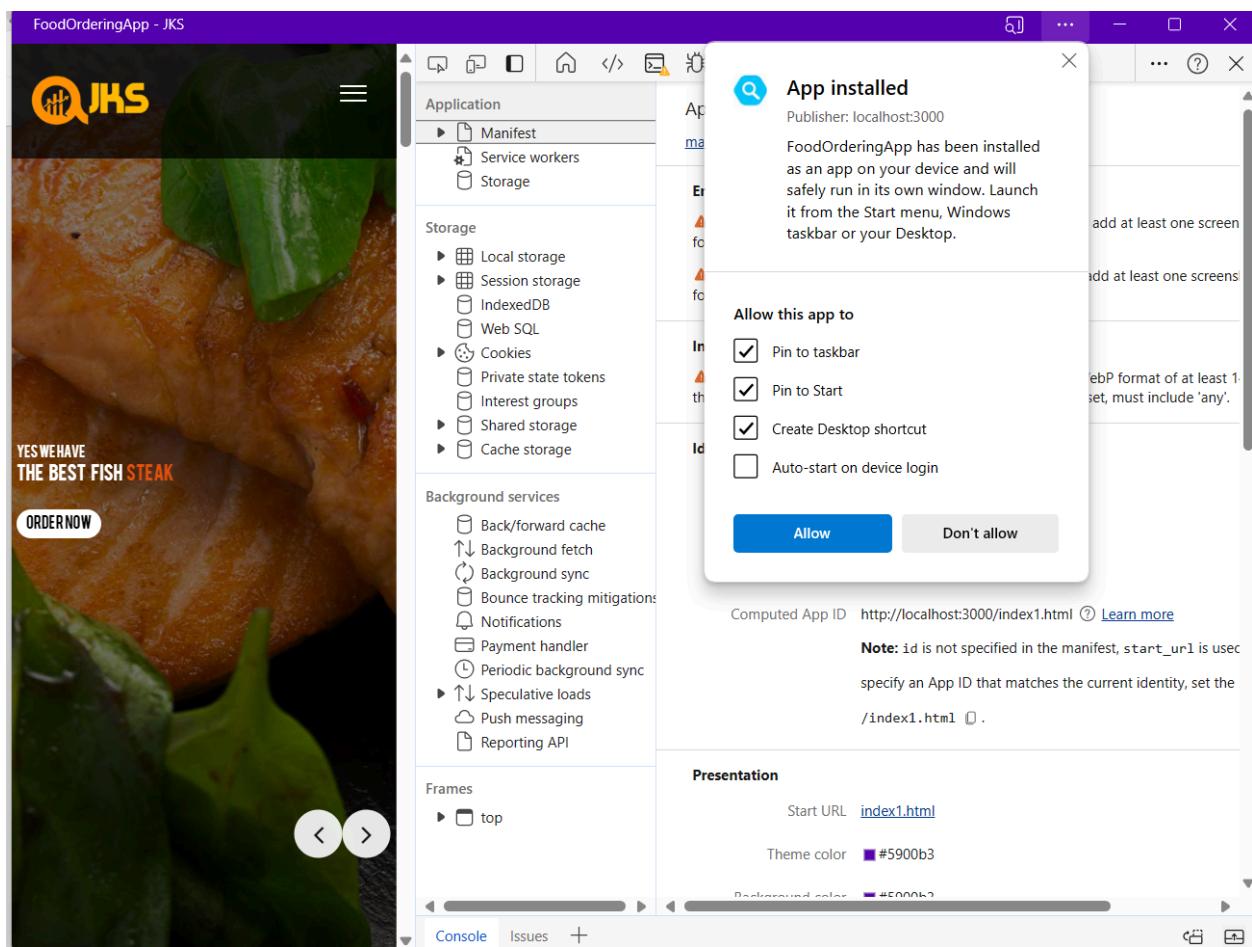


Click on 3 dots—>App—>installApp

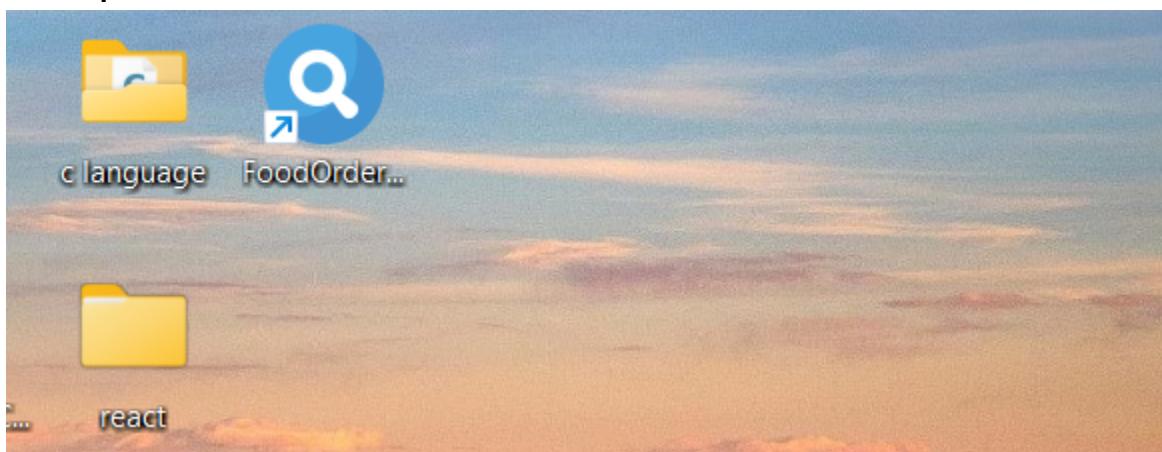


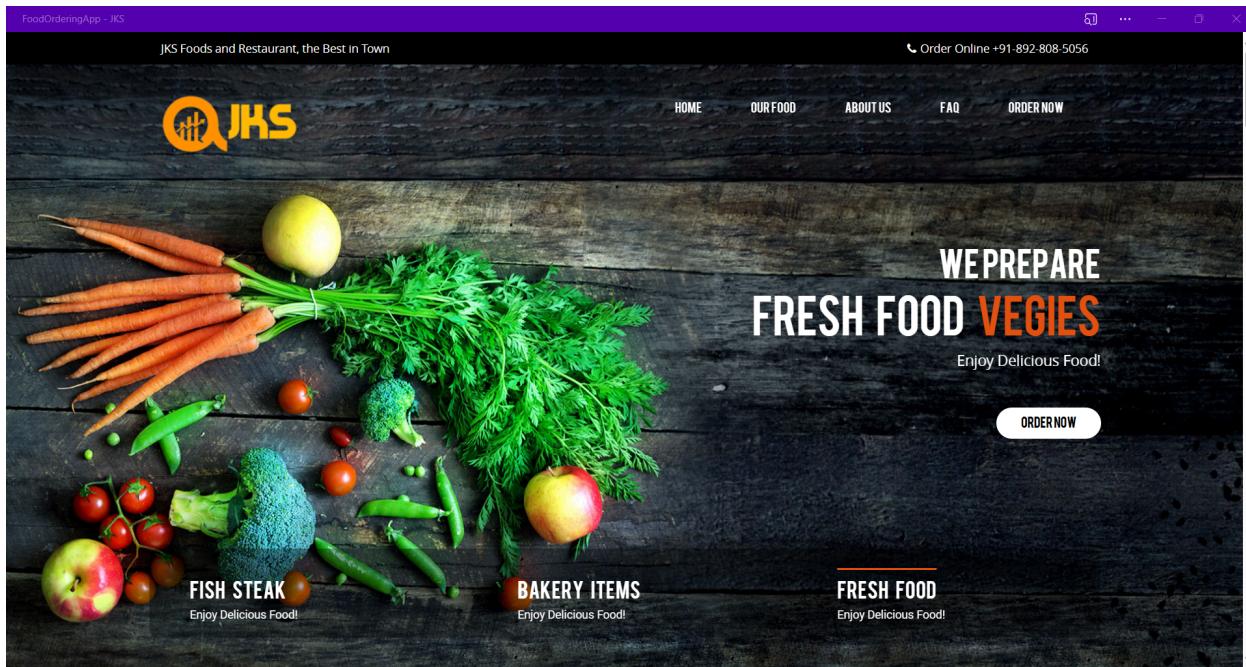
Click on the install





Desktop Icon





Conclusion - I added a home screen feature that was successfully implemented. I created a Shortcut icon to open our website's app locally ,I also added an image to the app icon.