



PARSHVANATH CHARITABLE TRUST'S  
**A. P. SHAH INSTITUTE OF TECHNOLOGY**  
(All Branches NBA Accredited)



## Department of Information Technology

**Academic Year:** 2024-25

**Semester:** VI

**Class / Branch / Div:** TE- IT A/B/C

**Subject:** MAD & PWA Lab

**Name of Instructor:** Ms. Sayali Pilgaonkar

**Name of Student:** Sahil Ghag

**Student ID:** 22104057

**Roll No.** 37

**Date of Submission:** 4-4-2025

### Experiment No.:9

**Aim:** To Construct meta data for PWA in a Web app manifest file to enable “add to homescreen feature”

**Prerequisites:** HTML, JavaScript, JSON.

**Software:** VS code, Browser.

**Code:**

**Index.html**

```
<!DOCTYPE html>

<html>

<head>

<!-- Responsive -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<!-- Title -->

<title>PWA Tutorial</title>

<!-- Meta Tags required for Progressive Web App -->

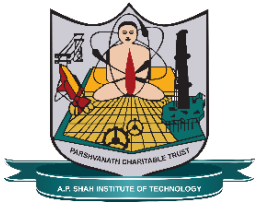
<meta name="apple-mobile-web-app-status-bar" content="#aa7700">

<meta name="theme-color" content="black">


<!-- Manifest File link -->

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


<script>
```



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```
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>

</head>

<body>

<h1 style="color: green;"> TE-IT Name: Yaminee Patil Moodle no: </h1>

<p>

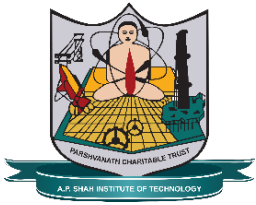
This is a simple tutorial for creating a PWA application.

</p>

</body>

</html>

**serviceworker.js**



```
var staticCacheName = "pwa";

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);

    })

  );

});
```

## Manifest.json

```
{

  "name": "PWA Tutorial",

  "short_name": "PWA",

  "start_url": "index.html",

  "display": "standalone",

  "background_color": "#5900b3",

  "theme_color": "black",

  "scope": ".",

  "description": "This is a PWA tutorial.",

  "icons": [
```



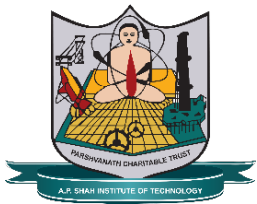
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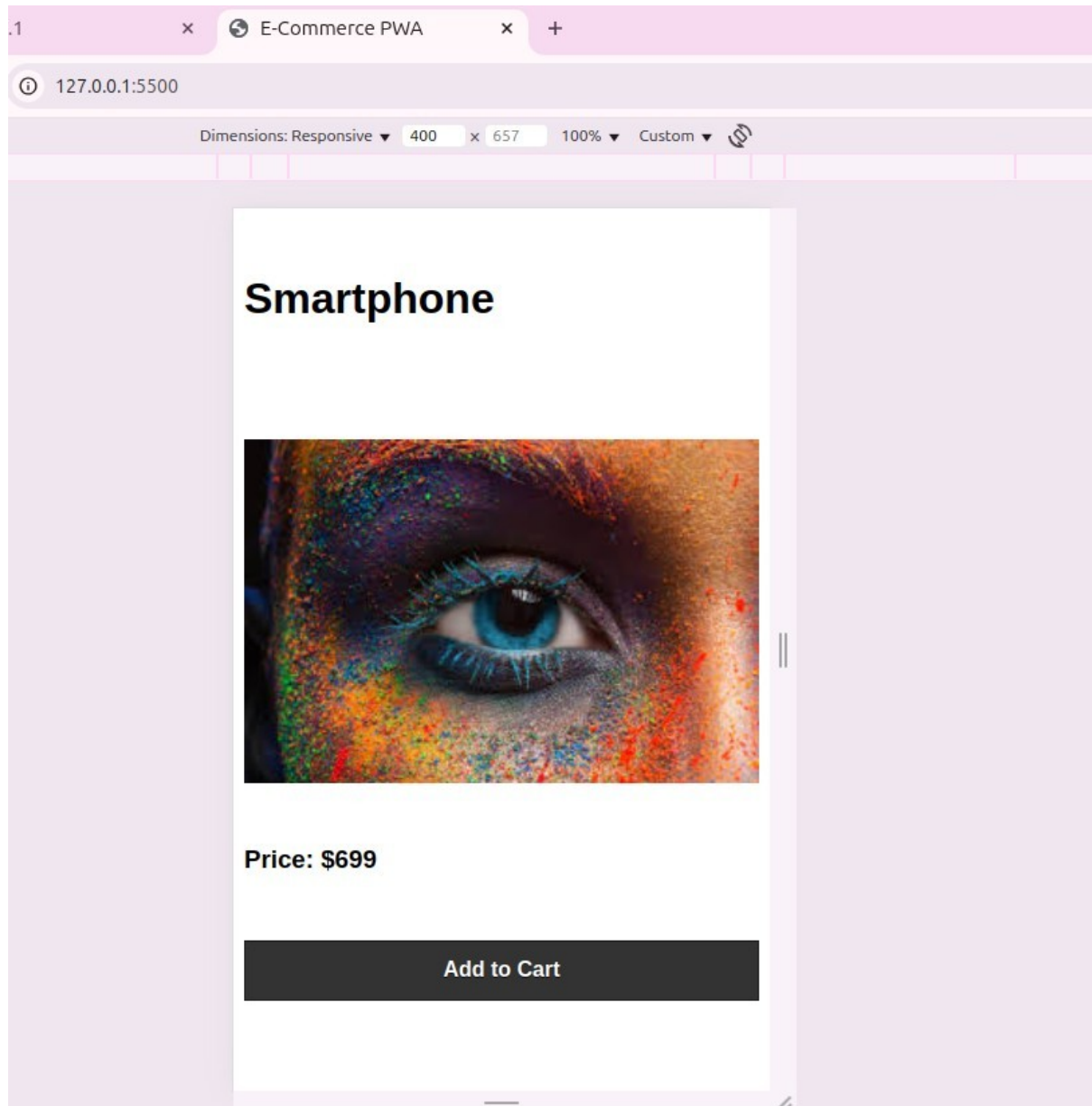
```
{  
  "src":"images/icon-192x192.png",  
  "sizes":"192x192",  
  "type":"image/png"  
},  
{  
  "src":"images/icon-512x512.png",  
  "sizes":"512x512",  
  "type":"image/png"  
}  
]  
}
```



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**Conclusion:** In this experiment we have designed PWA in a Web app manifest file to enable “add to homescreen feature”