

Department of Information Technology**Academic Year: 2024-25****Name of Student: Omkar****Chandgaonkar****Semester: VI****Student ID: 22104121****Class / Branch / Div: TE- IT A****Roll No. 16****Subject: MAD & PWA Lab****Date of Submission: 04/04/25****Name of Instructor: prof. Saylee Lapelkar**

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:

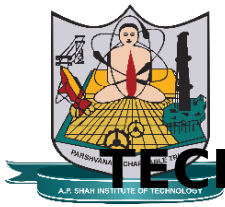
Index.html

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>E-Commerce PWA</title>

<!-- jQuery Mobile CSS & JS -->
<link rel="stylesheet" href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css">
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.js"></script>

<!-- PWA Manifest -->
<link rel="manifest" href="manifest.json">
</head>
<body style="background-color: rgb(255, 211, 222);">
<center>
<!-- Home Page -->
<div data-role="page" id="home" style="display: flex; justify-content: center; align-items: center;">
<div data-role="header">
```



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```
<h1>GoBasket</h1>
<a href="#cart" class="ui-btn ui-btn-right ui-icon-shopping-cart ui-btn-icon-
notext"></a>
</div>

<div data-role="content">
<ul data-role="listview" data-inset="true">
<li><a href="#product1"> Apples</a></li>
</ul>
</div>

<div data-role="footer">
<h4>&copy; 2025 ShopEasy</h4>
</div>
</div>

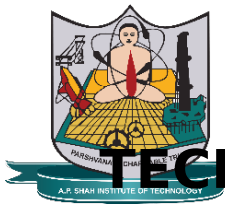
<!-- Product Page -->
<div data-role="page" id="product1">
<div data-role="header">
<a href="#home" class="ui-btn ui-icon-back ui-btn-icon-left" style="width: fit-
content;">Back</a>
<h1>My Basket</h1>
</div>

<div data-role="content">

<h3>Price: Rs.450</h3>
<button class="add-to-cart ui-btn ui-btn-b" style="width: fit-content;">Add to Cart</
button>
</div>
</div>

<!-- Shopping Cart Page -->
<div data-role="page" id="cart">
<div data-role="header">
<h1 style="width: fit-content;">Shopping Cart</h1>
</div>
<div data-role="content">
<ul id="cart-items" data-role="listview"></ul>
<a href="#" class="ui-btn ui-btn-b" style="width: fit-content;">Checkout</a>
</div>
</div>

<script src="js/script.js"></script>
```



</center>

</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

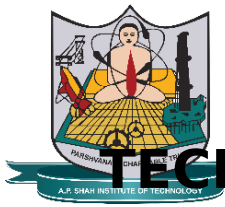
```
{
```

```
  "name": "PWA Tutorial",
```

```
  "short_name": "PWA",
```

```
  "start_url": "index.html",
```

```
  "display": "standalone",
```



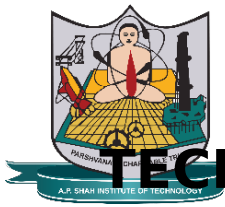
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```
"background_color":"#5900b3",  
"theme_color":"black",  
"scope": ".",  
"description":"This is a PWA tutorial.",  
"icons": [  
  {  
    "src":"images/icon-192x192.png",  
    "sizes":"192x192",  
    "type":"image/png"  
  },  
  {  
    "src":"images/icon-512x512.png",  
    "sizes":"512x512",  
    "type":"image/png"  
  }  
]  
}
```



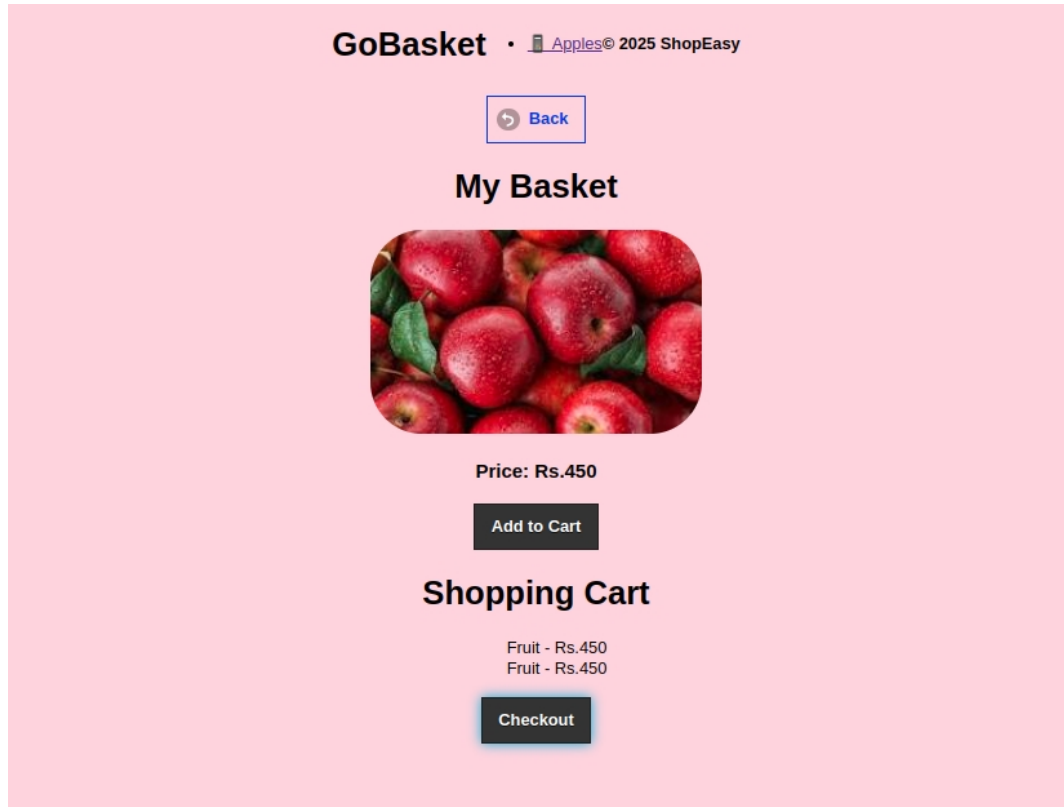
PARSHVANATH CHARITABLE TRUST'S

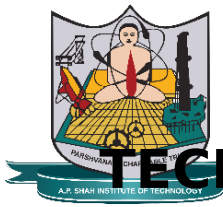
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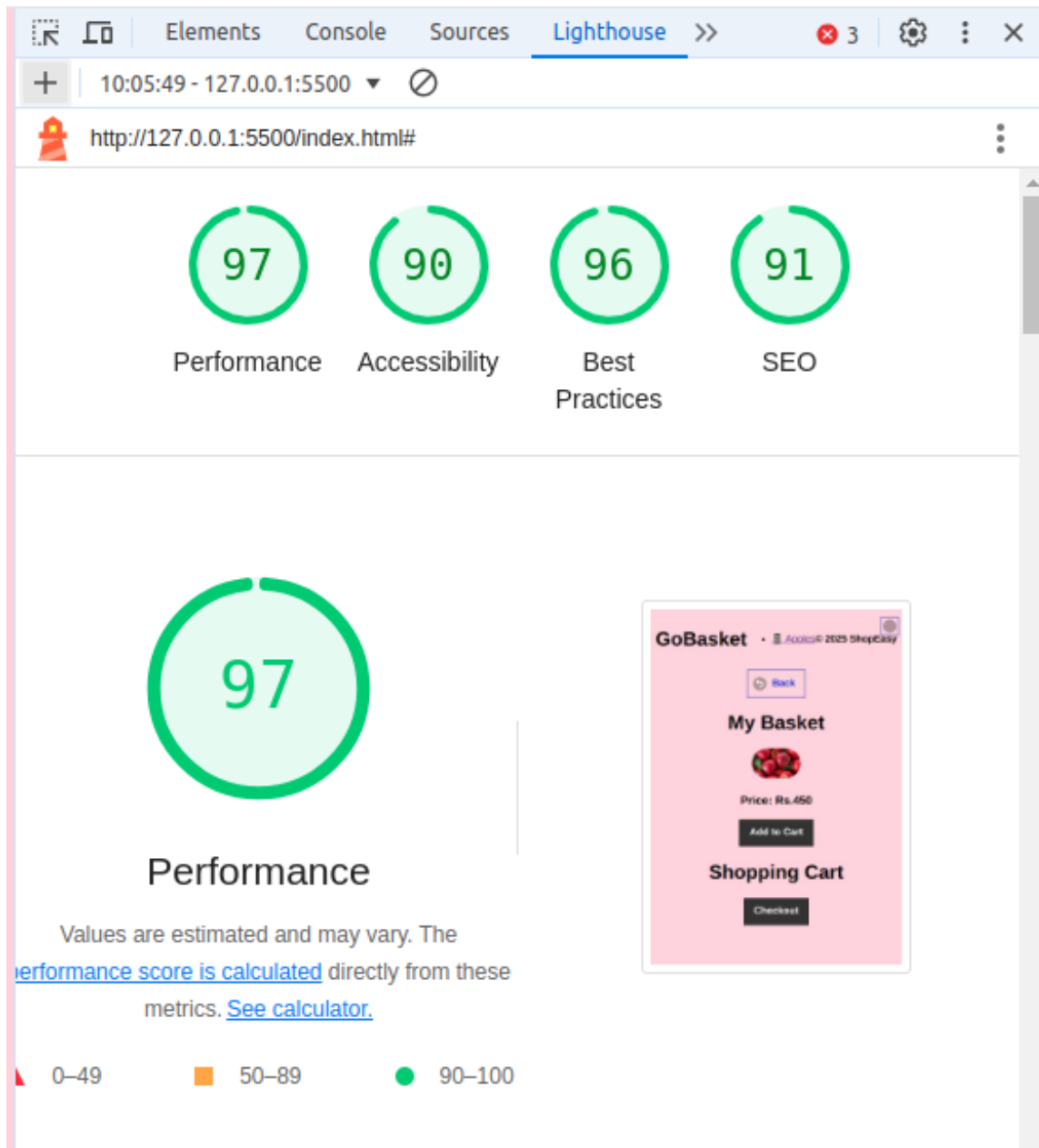
Output:





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