

## PWA Experiment No : 7

**Aim :** To implement the "Add to Home Screen" feature in a web application to enhance user accessibility and engagement

### Progressive web App

PWAs are built with web technologies (HTML, CSS, JS) that offers a user experience similar to native app, allowing them to be installed on devices and work offline while also being accessible through a web browser

### Features :

- 1] Built with HTML, CSS, JS
- 2] App like interface
- 3] offline functionality
- 4] Background updates
- 5] Directly installed from the web browser

In this experiment to set up a basic PWA, we create a file called Manifest.json where we define the basic configuration details of the application and include 2 files

- 1] Small.png
- 2] large.png

These 2 files are mandatory as they represent

The icons that PWA will be installed under

Conclusion :

In this experiment we learnt to set a PWA by defining Manifest.json file. The PWA could be installed on visiting its address through a browser on Mobile phone.



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## Mpl Practical 7

### Steps to Make Your Vite React App a PWA

#### 1 Install Vite PWA Plugin

1. Open your terminal inside the project folder.
2. Run the command to install the PWA plugin.
3. This plugin helps to add service workers and caching automatically.

#### 2 Configure Vite for PWA

1. Open the vite.config.js file in your project.
2. Import and add the PWA plugin inside the plugins section.
3. Set up options like auto-updates, caching, and offline support.
4. Save the file and restart the Vite server.

#### 3 Add manifest.json File

1. Go to the public folder in your project.
2. Create a new file named manifest.json.
3. Add details like the app name, icons, theme color, and display mode.
4. This file helps browsers recognize your app as installable.



```
File Edit Selection View Go Run Terminal Help  
EXPLORER  
DEV-DIST  
dev-dot  
registerSW.js  
sw.js  
workbox-417a7fbf.js  
dist  
assets  
icons8-money-96-imresizer.jpg  
icons8-money-96ico  
icons8-money-96png  
icons8-money-192-imresizer.jpg  
icons8-money-192ico  
manifest.webmanifest  
sw.js  
workbox-51fe50d4.js  
modules  
public  
src  
styles.css  
utils
```

```
1 {  
2   "name": "Xchange",  
3   "short name": "XC",  
4   "description": "An amazing PWA built with vite!",  
5   "start_url": "/",  
6   "display": "standalone",  
7   "background_color": "#ffffff",  
8   "theme_color": "#4a90e2",  
9   "lang": "en",  
10  "scope": "/",  
11  "icons": [  
12    { "src": "public/icons8-money-192-imresizer.jpg", "sizes": "192x192", "type": "image/jpeg" },  
13    { "src": "public/icons8-money-96-imresizer.jpg", "sizes": "96x96", "type": "image/jpeg" }  
14  ]  
15 }  
16
```







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United States Dollar



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USD United States

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Hungarian Forint



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HUF Hungary

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