Vivekanand Education Society's Institute of Technology
Department of Information Technology

PROGRESSIVE WEB APP

WOODEX – FURNITURE APP

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Introduction

Woodex is a Progressive Web App (PWA) designed to provide a seamless e-commerce experience for buying furniture products. With its user-friendly interface and robust features, Woodex aims to revolutionize the way users shop for furniture online.

Features:

- Fast loading times.
- Offline access to previously viewed products.
- Add to home screen feature for easy access.
- Service worker events for improved performance.

Problem Statement

Problem: Traditional e-commerce websites often suffer from slow loading times and poor user engagement, especially on mobile devices.

Challenges:

- Limited offline functionality.
- Lack of native app-like experience.
- Poor performance on slower networks.

Solution: Develop a PWA that offers fast loading times, offline access, and a responsive design for a seamless user experience.

Objectives

1. Develop an e-commerce Progressive Web App (PWA) for selling furniture products.

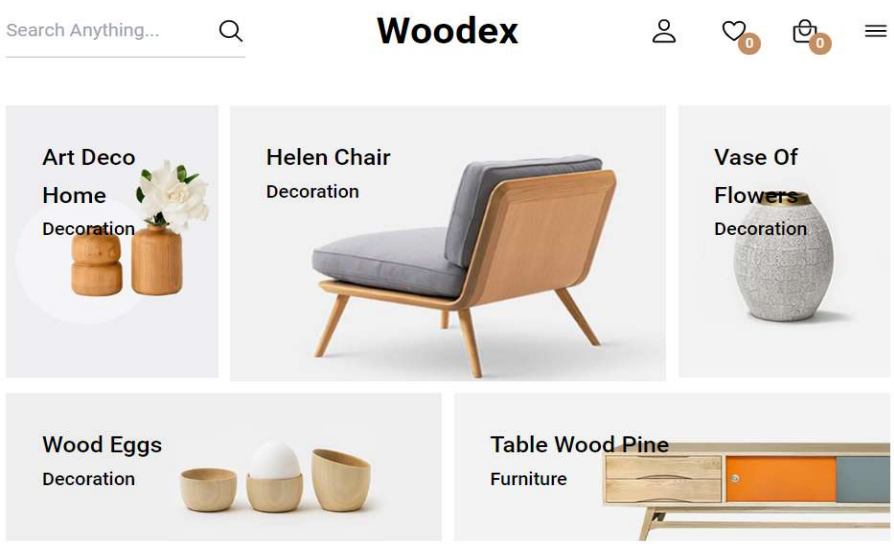
2. Implement PWA features to enhance user experience and performance.
   A) Write metadata of E-commerce PWA and add to home screen feature.
   B) Code and register service worker and complete install and activation.
   C) Implement service worker events like fetch, sync and push for E-commerce.

3. Deploy the PWA on GitHub Pages for easy access and testing.

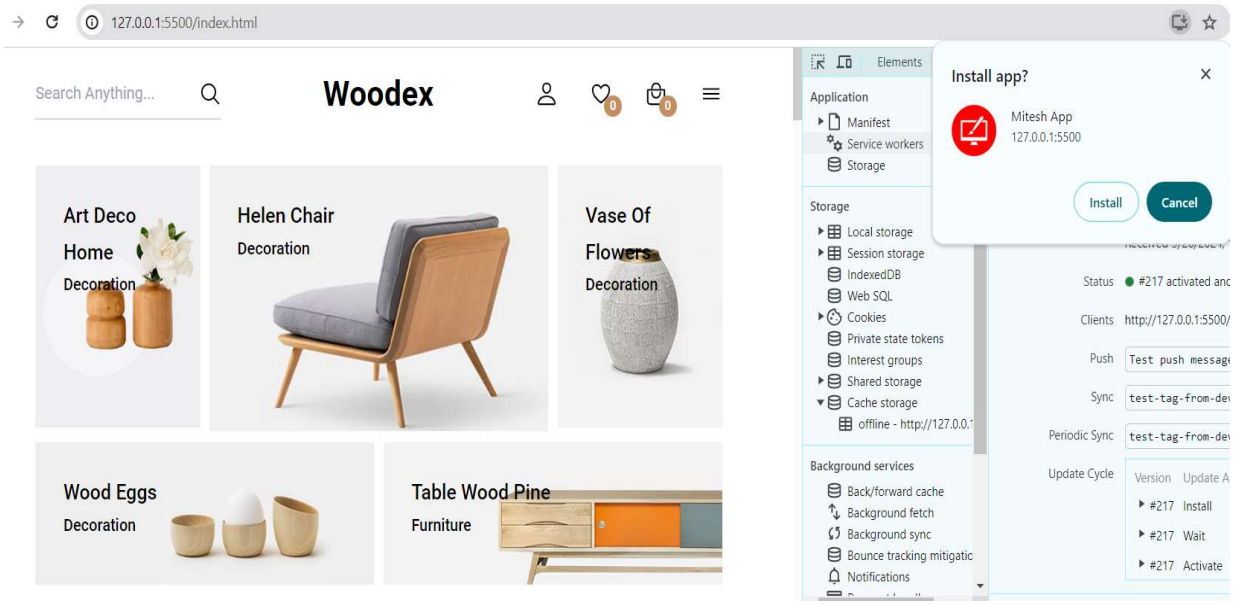
4. Use Google Lighthouse PWA analysis tool to evaluate and optimize the PWA's performance.

Implementation

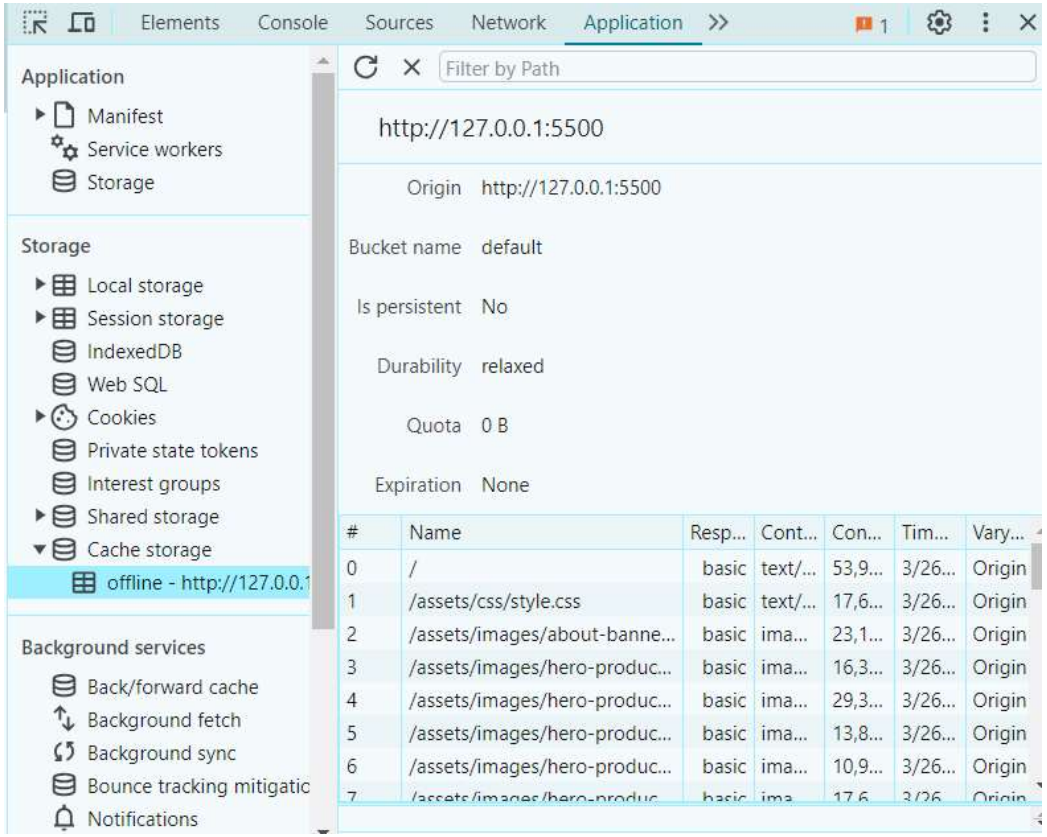
Before performing PWA tasks:



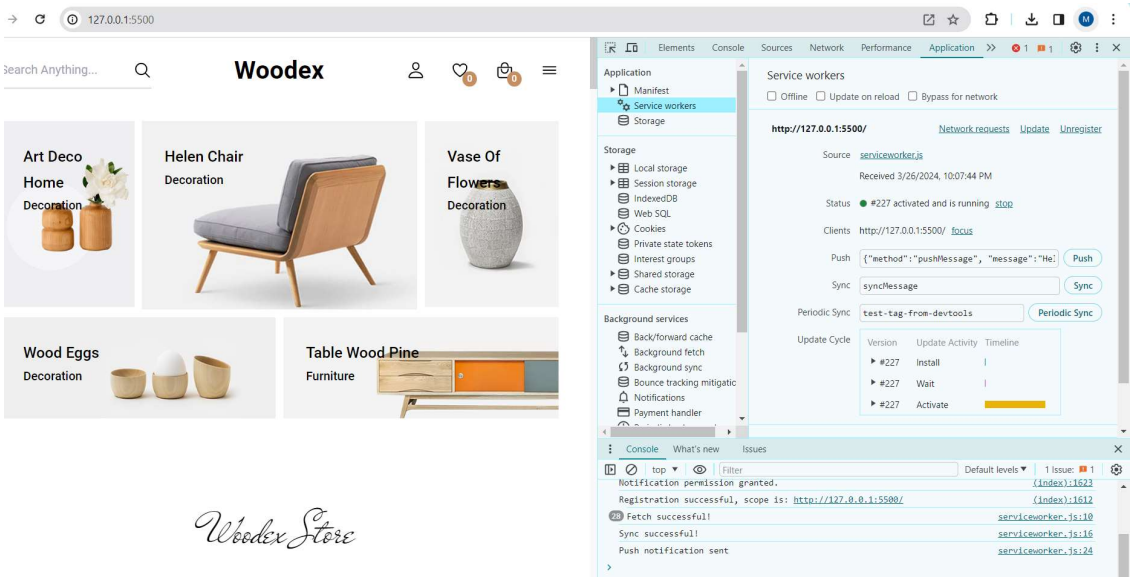
Add to home screen feature

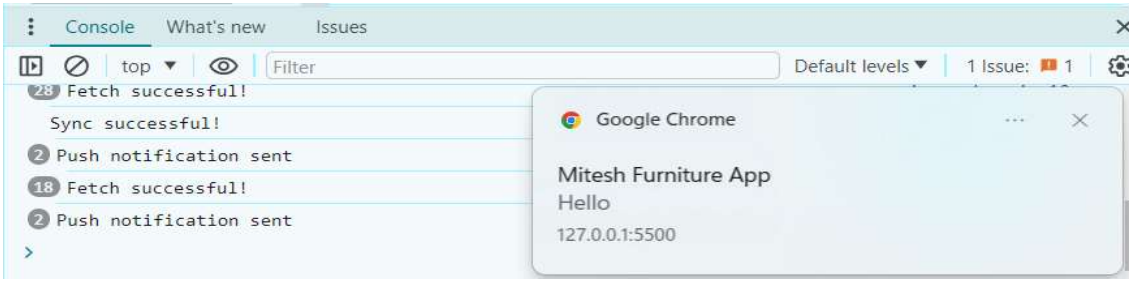


Registration of Service Worker



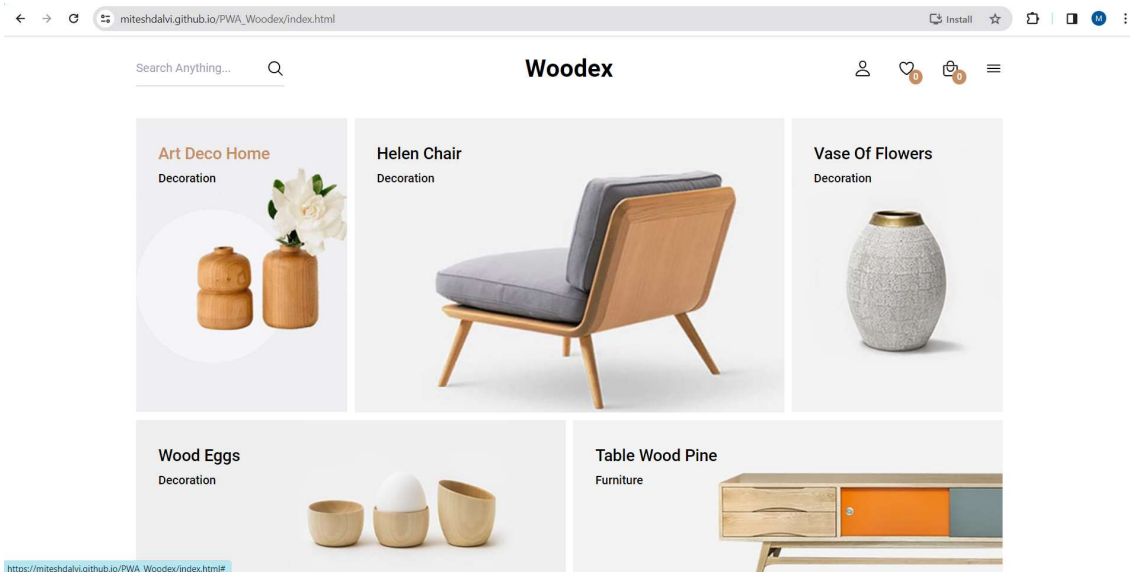
Fetch, Sync and Push Events



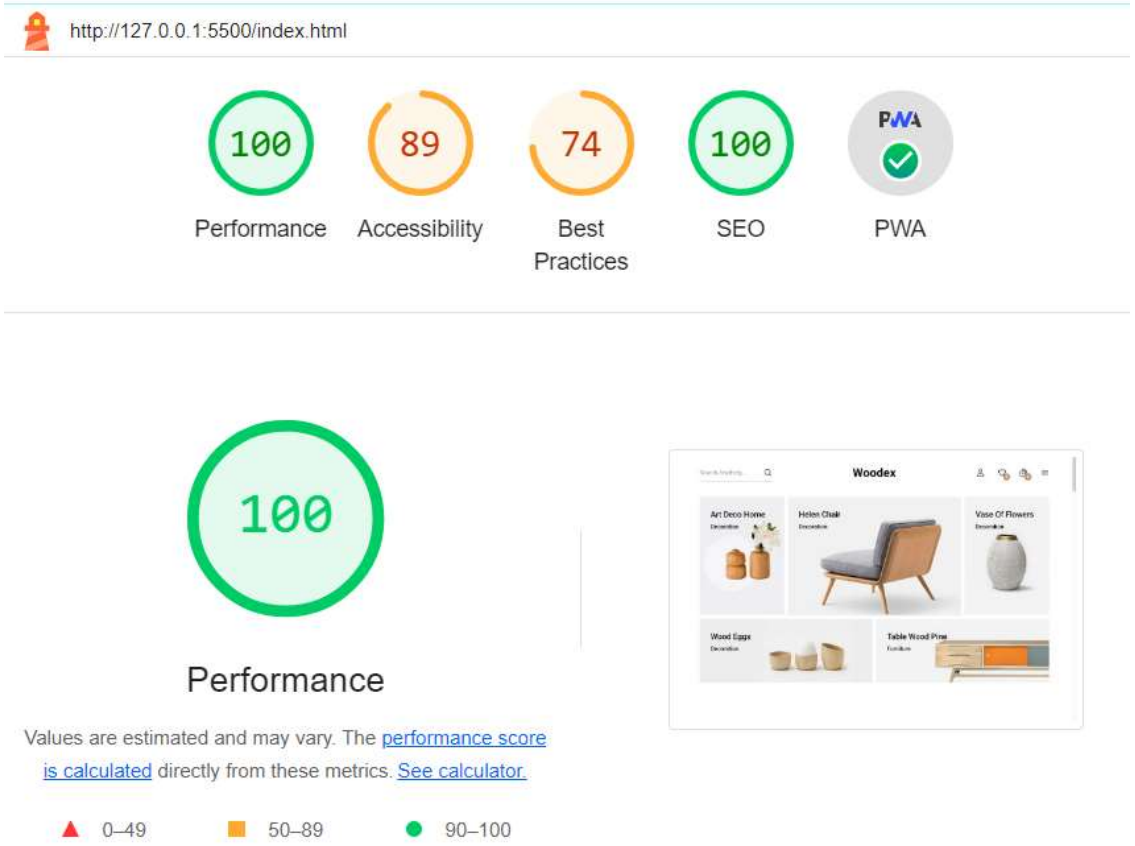


Deploy to Github Pages

https://miteshdalvi.github.io/PWA_Woodex/index.html



Test PWA performance on Google Lighthouse



Conclusion

In conclusion, the development of Woodex - A Furniture App as a Progressive Web App (PWA) has been a significant step towards enhancing the e-commerce experience for furniture buyers. By implementing PWA features such as fast loading times, offline access, and a responsive design, Woodex offers users a native app-like experience while maintaining the accessibility of a web app.

Thank you!