BOOK SELLING APP

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CLASS: D15B

ROLL NO: 12

SUBJECT: MPL

Flutter Project

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INTRODUCTION

The world of literature is undergoing a transformation, and our book-selling app is at the forefront of this evolution. As more readers embrace digital platforms, our solution is designed to meet their needs seamlessly, providing an enjoyable experience for book enthusiasts of all kinds.

Today, we're here to take you through the key features and functionalities of our app. We'll demonstrate how it revolutionizes the way users discover, explore, and engage with their favorite reads. So, let's delve into the realm of books together and explore the possibilities our app offers.

PROBLEM STATEMENT

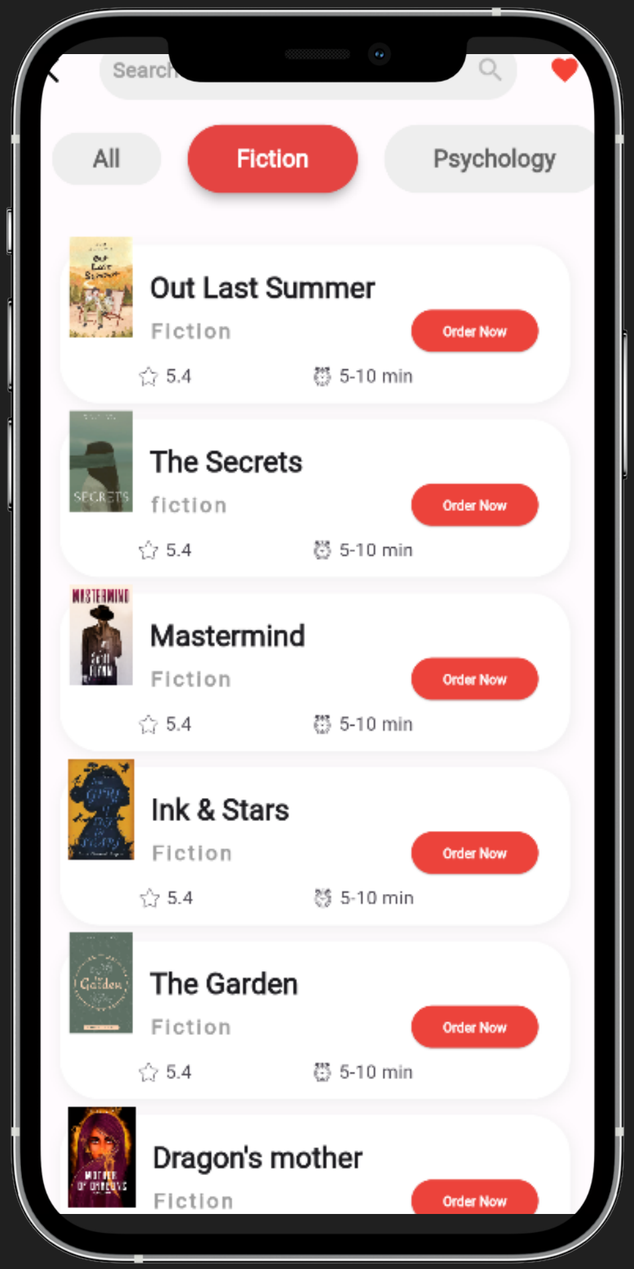
In today's digital world, book enthusiasts lack an accessible and convenient platform for buying and exploring their favorite reads. To address this, we aim to develop a user-friendly book-selling application using Flutter. This solution seeks to provide an effortless and enjoyable experience for users to purchase books online, filling the gap in the market for an intuitive and efficient book-buying platform.

LITERATURE SURVEY

Sr No.	IEEE Paper Name	Published By	Date	Methodology
1.	Online Bookstore Management System Based on Android	Zhenhai Mu Lizhen Jiang	10-11 August 2018	The app offers dual functionality, allowing buyers to swiftly purchase books and managers to efficiently manage orders and update inventory, ensuring a seamless experience for all users.
2.	Development and Application of Mobile Bookstore Visualization Platform Based on Grid System	Xue Dong	28-29 February 2020	Making books available for others to access or borrow, typically through a digital platform or library system. It can involve providing access to digital copies of books or physical copies available for borrowing or lending.

LITERATURE SURVEY

Sr No.	IEEE Paper Name	Published By	Date	Methodology
3.	Under the Prevalence of E-Commerce: Online Bookstore System	Chien-Min Chen; Shuai-Li Bao; Ting Feng; Yu-Ting Lu; Renpu Li	16-17 December 2021	The system encourages people to get involved by giving out awards and letting users show interest in each other. It also lets users share their own work, which helps everyone interact and work together.
4.	Secure Online Book Resale Store System using Machine Learning	Yash Solanki; Onkar Pattewar; Saurav Satpute; Pranav Suryawanshi; Meghana Lokhande	27-29 May 2022	The website cuts out middlemen, reducing costs for buyers and sellers and offering fairer prices.



SOLUTION

To address the need for an easy-to-use book-selling platform, we've developed a solution using Flutter. This app simplifies the process of buying and exploring books online. With a user-friendly interface and seamless navigation, it offers an effortless way for book enthusiasts to purchase their favorite reads. Our solution aims to bridge the gap in the market for a convenient and enjoyable book-buying experience.

REQUIREMENTS

HARDWARE REQUIREMENTS

COMPUTER SYSTEM - Windows 11, 64 bit Operating System.

SOFTWARE REQUIREMENTS

DART

FLUTTER SDK

FIREBASE

VS CODE

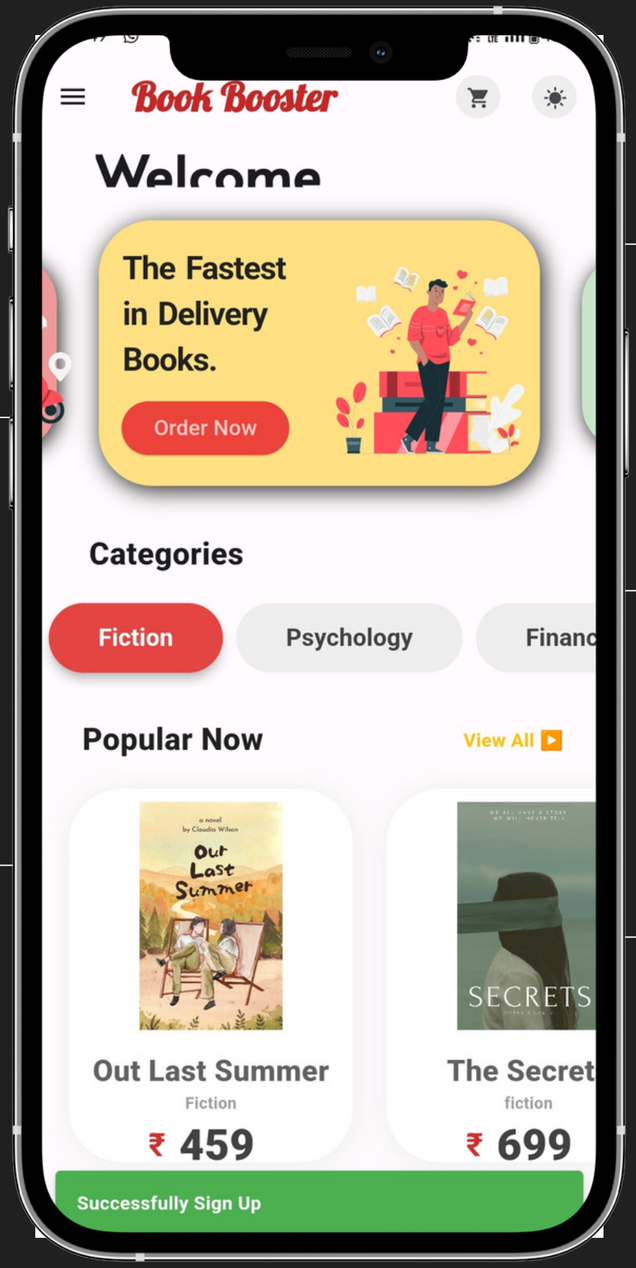
FEATURES

User Authentication

User needs to Signin inorder to use functionality

Category-based Book Suggestions

Handpicked recommendations organized by theme or subject matter



Detailed Book Information

Accessible information on titles, authors, and descriptions for informed decisions.

Favorites Management

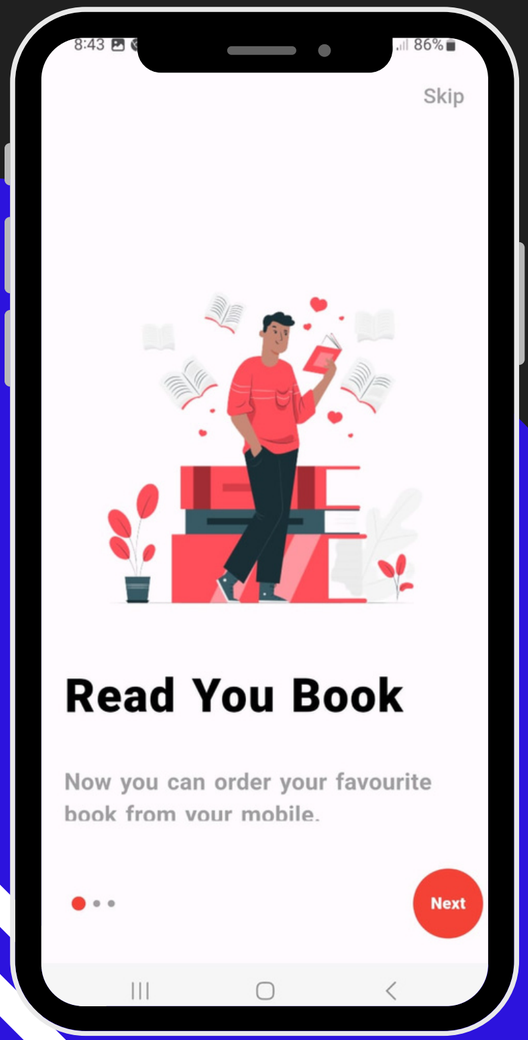
Easy organization of preferred books for quick retrieval.

Seamless Cart Functionality

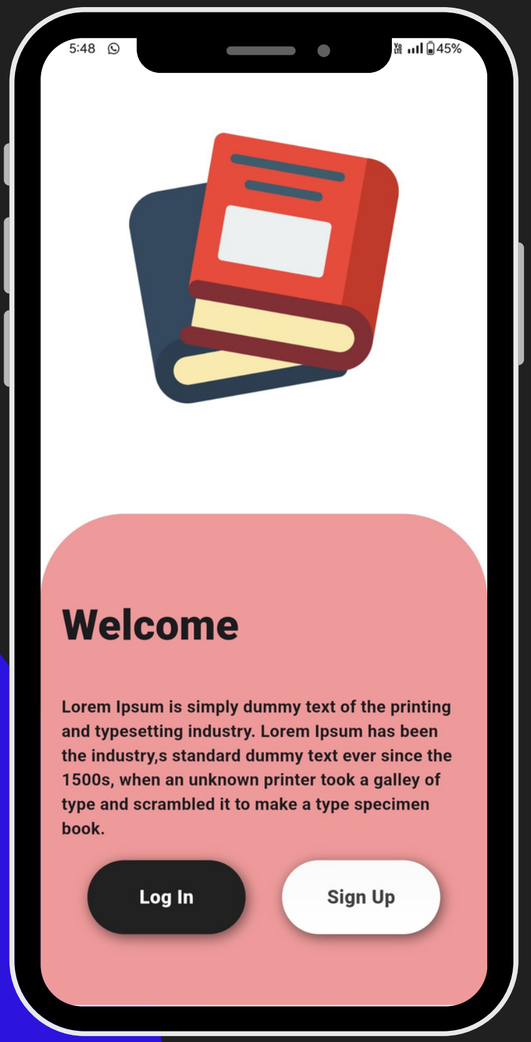
Smooth addition and management of items for stress-free shopping.

IMPLEMENTATION

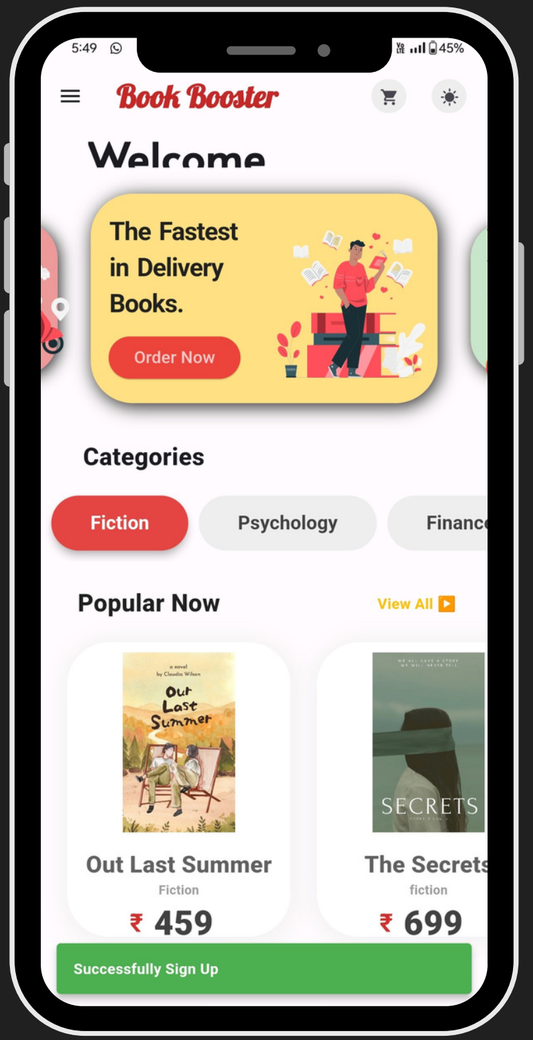
SPLASH SCREEN



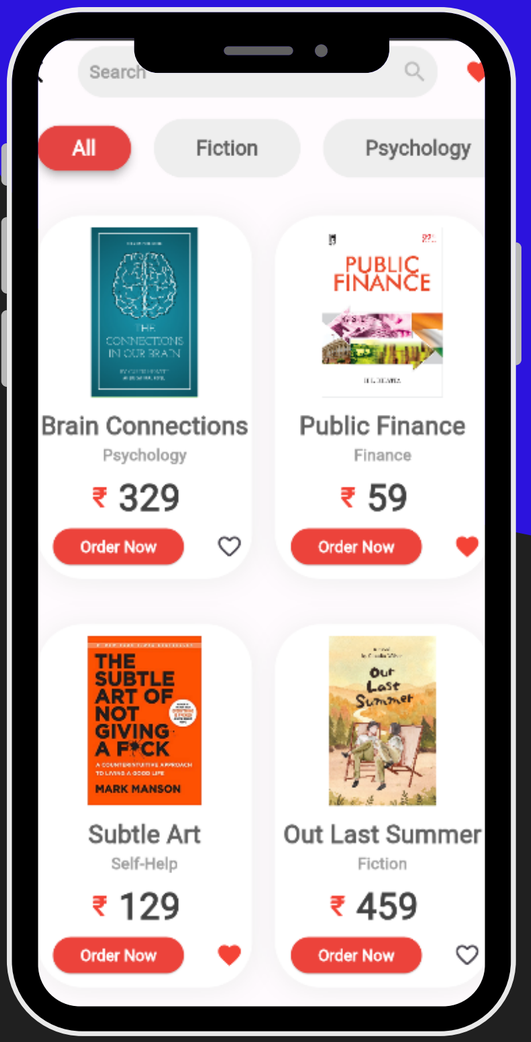
SIGNIN



HOME PAGE

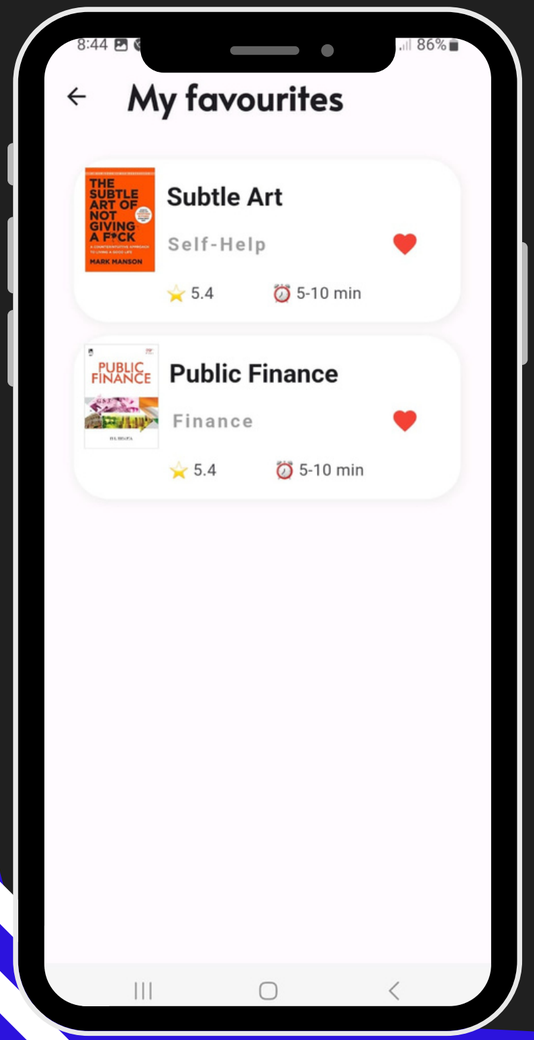


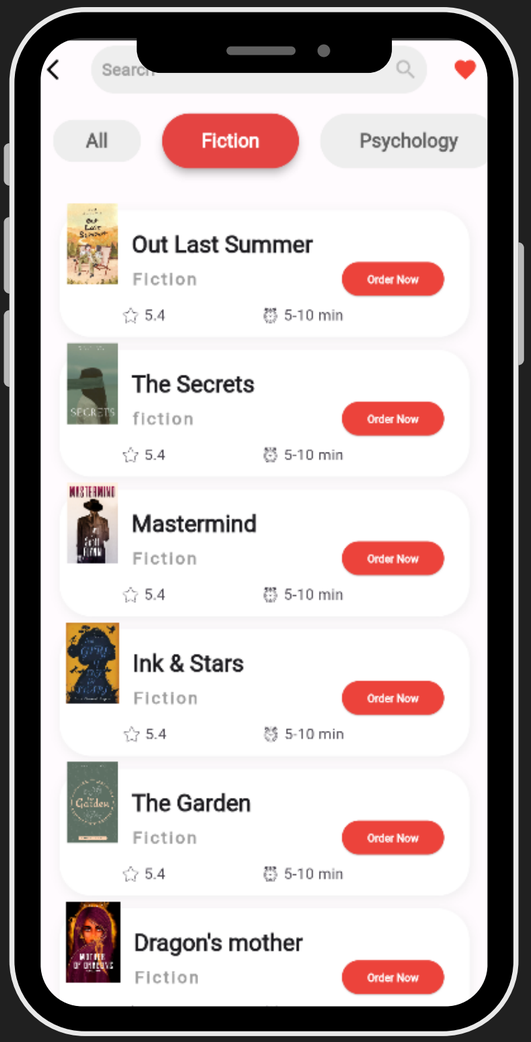
VIEW PAGE



IMPLEMENTATION

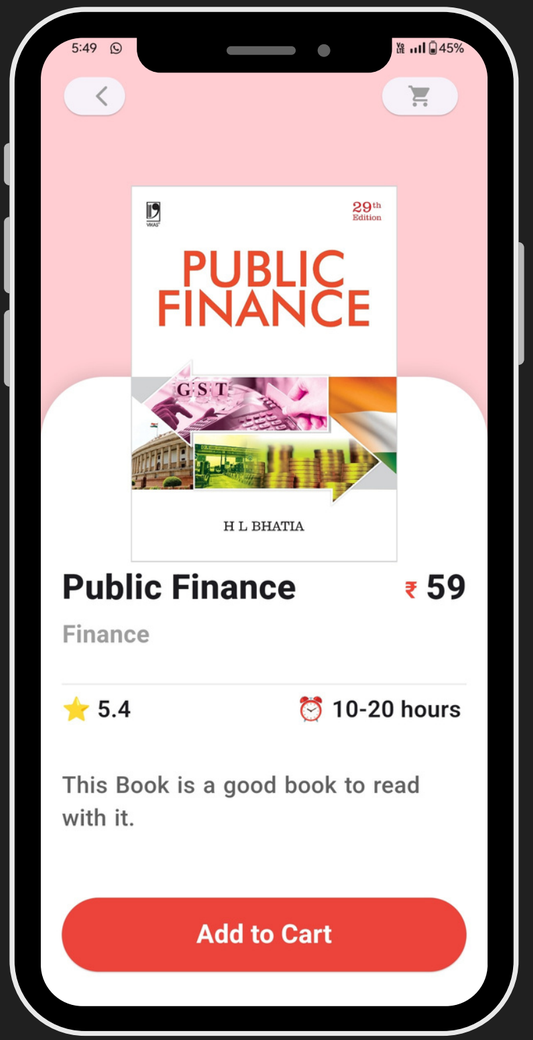
FAVORITE

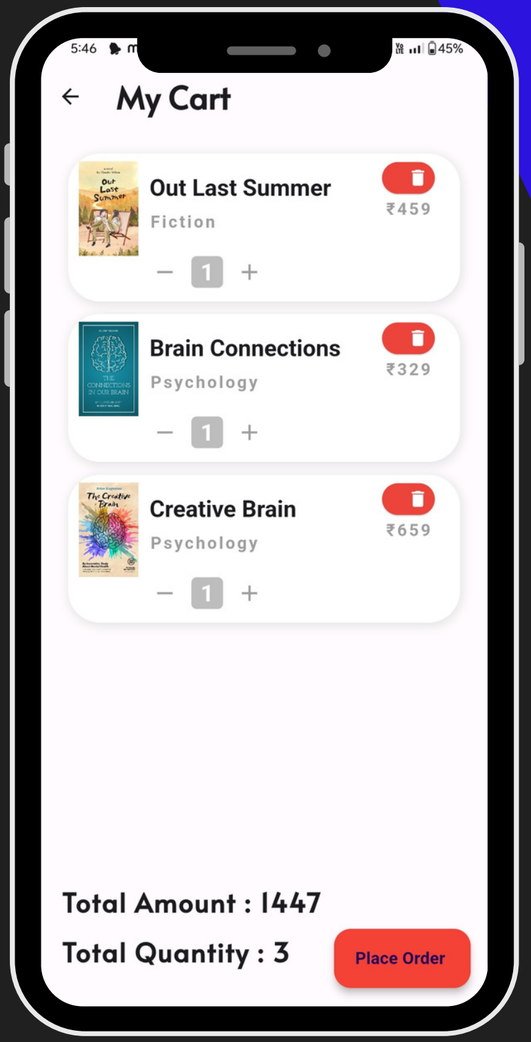




CATEGORY-BASED BOOKS

DETAILS





ADD TO CART

CONCLUSION

“SelfJoey is a book-selling app represents a significant step forward in the digital literary landscape. By harnessing the power of Flutter, I've created an intuitive platform that seamlessly connects book enthusiasts with their favorite reads. With features like effortless navigation, categorized recommendations, and convenient favorites management, my app offers a truly immersive and enjoyable experience. “

REFERENCES

[1]. Z. Mu and L. Jiang, "Online Bookstore Management System Based on Android," 2018 International Conference on Virtual Reality and Intelligent Systems (ICVRIS), Hunan, China, 2018, pp. 498-500, doi: 10.1109/ICVRIS.2018.00128. keywords: {Databases;Internet;Smart phones;Password;Real-time systems;History;Business;Online bookstore;Android Studio;Cloud service Bmob},

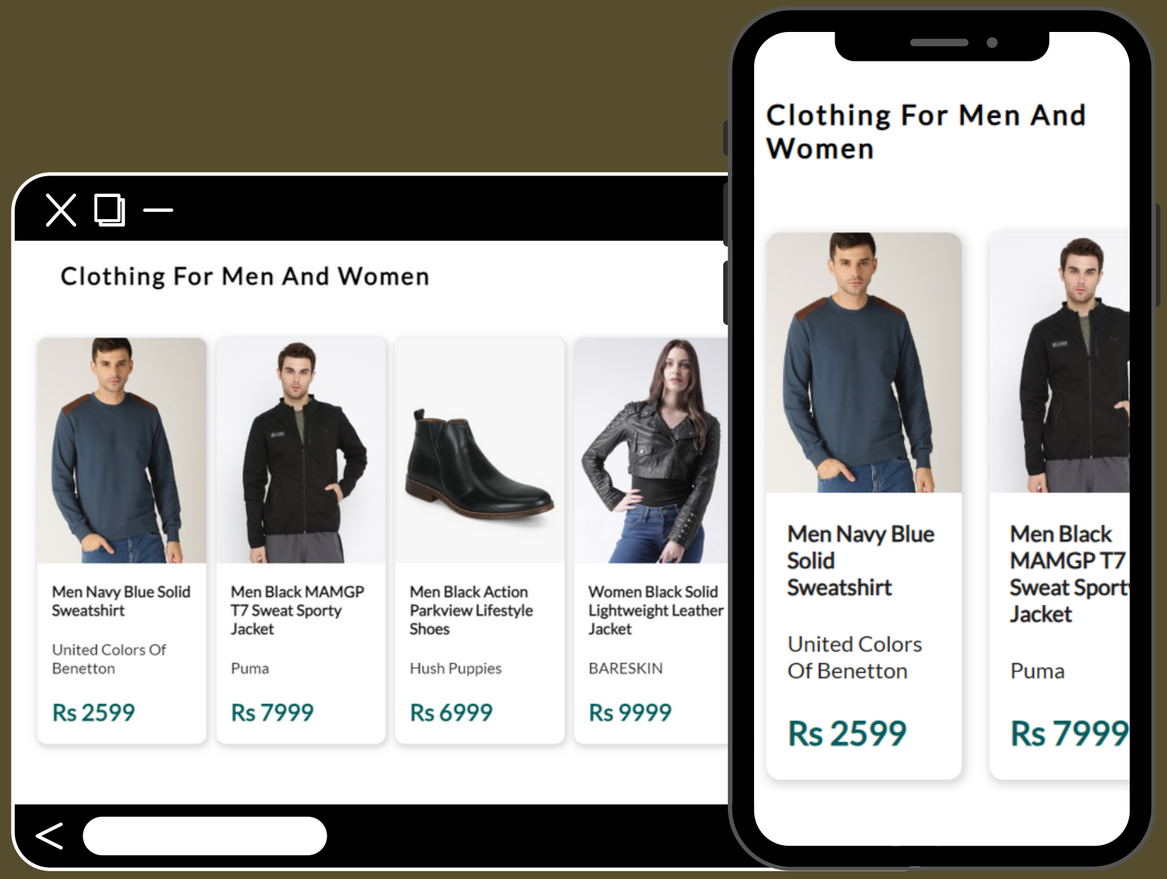
[2]. X. Dong, "Development and Application of Mobile Bookstore Visualization Platform Based on Grid System," 2020 12th International Conference on Measuring Technology and Mechatronics Automation (ICMTMA), Phuket, Thailand, 2020, pp. 352-356, doi: 10.1109/ICMTMA50254.2020.00084. keywords: {Visualization;Information resources;Mechatronics;Urban areas;Distributed databases;Metadata;Mobile handsets;mobile bookstore;grid;android;GIS;MDS},

[3]. C. -M. Chen, S. -L. Bao, T. Feng, Y. -T. Lu and R. Li, "Under the Prevalence of E-Commerce: Online Bookstore System," 2021 9th International Conference on Orange Technology (ICOT), Tainan, Taiwan, 2021, pp. 1-5, doi: 10.1109/ICOT54518.2021.9680608. keywords: {Cloud computing;Costs;Big Data;Registers;Electronic commerce;Social implications of technology;Business;e-commerce;online shopping;big data analysis},

[4]. Y. Solanki, O. Pattewar, S. Satpute, P. Suryawanshi and M. Lokhande, "Secure Online Book Resale Store System using Machine Learning," 2022 3rd International Conference for Emerging Technology (INCET), Belgaum, India, 2022, pp. 1-6, doi: 10.1109/INCET54531.2022.9825109. keywords: {Support vector machines;Industries;Machine learning algorithms;Filtering;Collaborative filtering;Authentication;Machine learning;Internet;secure hash algorithm(SHA);Hash;Machine Learning;an online bookstore;website;e-commerce;Support Vector Machine(SVM)},

PROGRESSIVE WEB APP

PWA is a type of website that works like a mobile app. It's built with web technologies like HTML, CSS, and JavaScript. PWAs offer features like offline access, push notifications, and the ability to add an icon to your device's home screen. They are fast, reliable, and can be used on any device with a web browser. So, you get the convenience of an app without needing to download anything from an app store.



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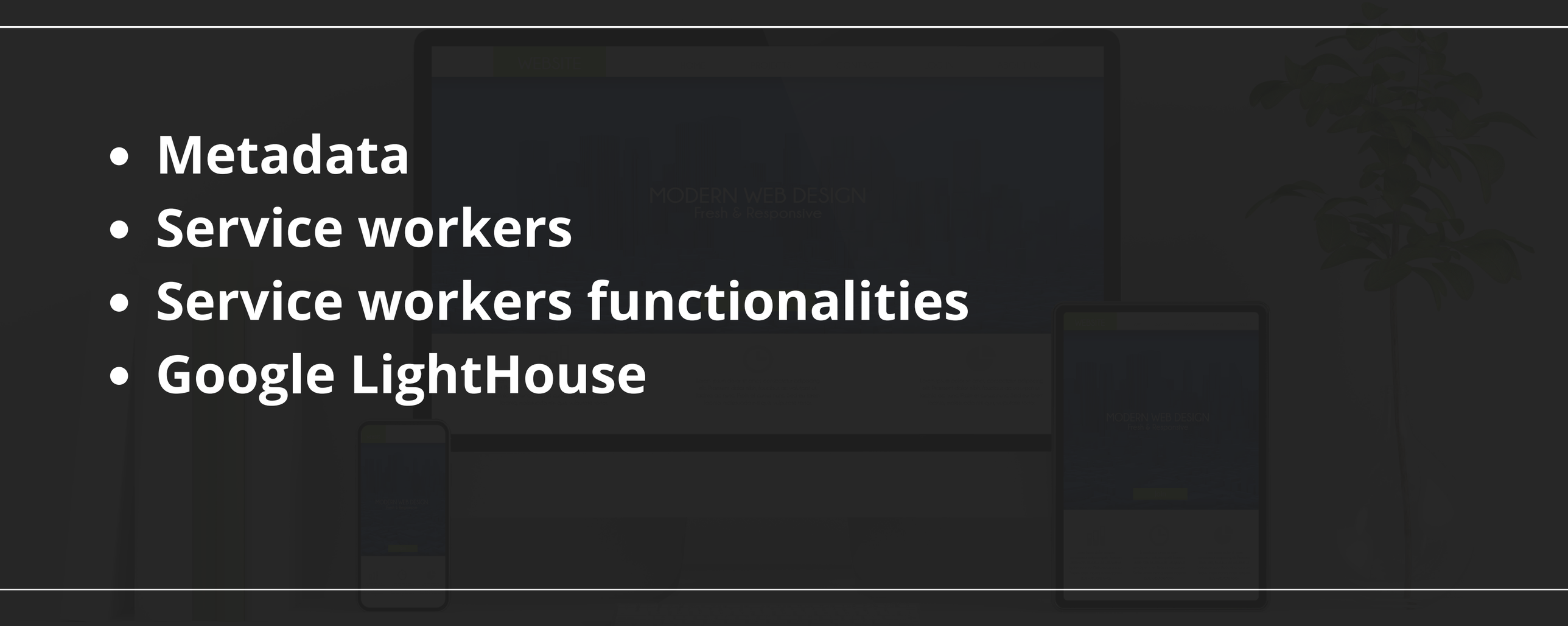

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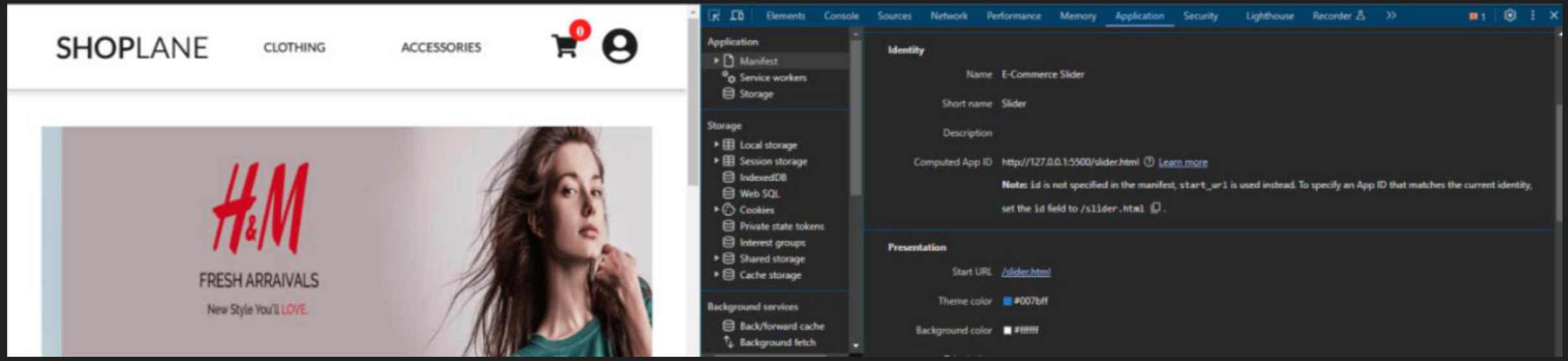
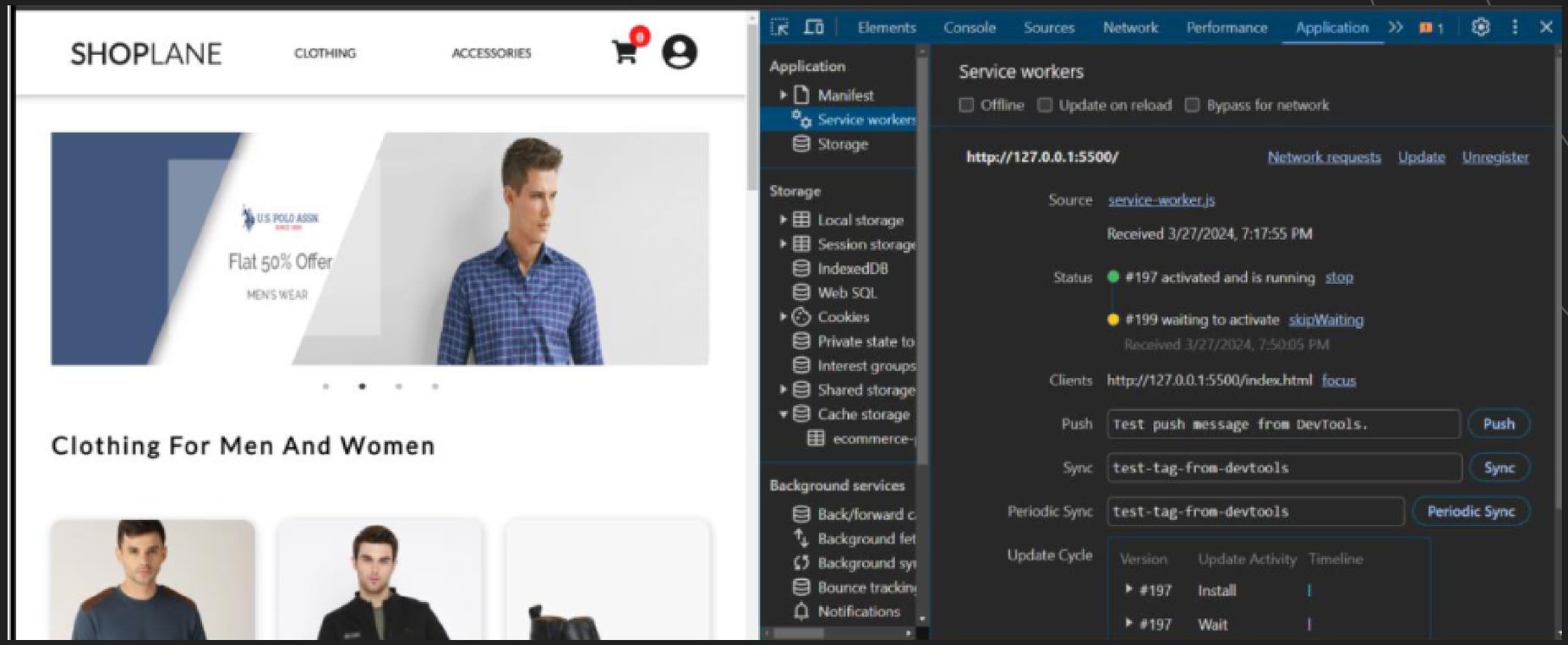
METADATA



Metadata refers to adding specific information to your web application to optimize its performance, appearance, and functionality when users interact with it. it ensures that your PWA looks and behaves like a native app, making it more engaging and user-friendly for visitors.

SERVICE WORKERS



Scripts that run in the background of a web application, separate from the web page's main execution thread. Service workers enable features such as offline functionality, push notifications, and background synchronization.

SERVICE WORKERS FUNCTIONALITIES

FETCH

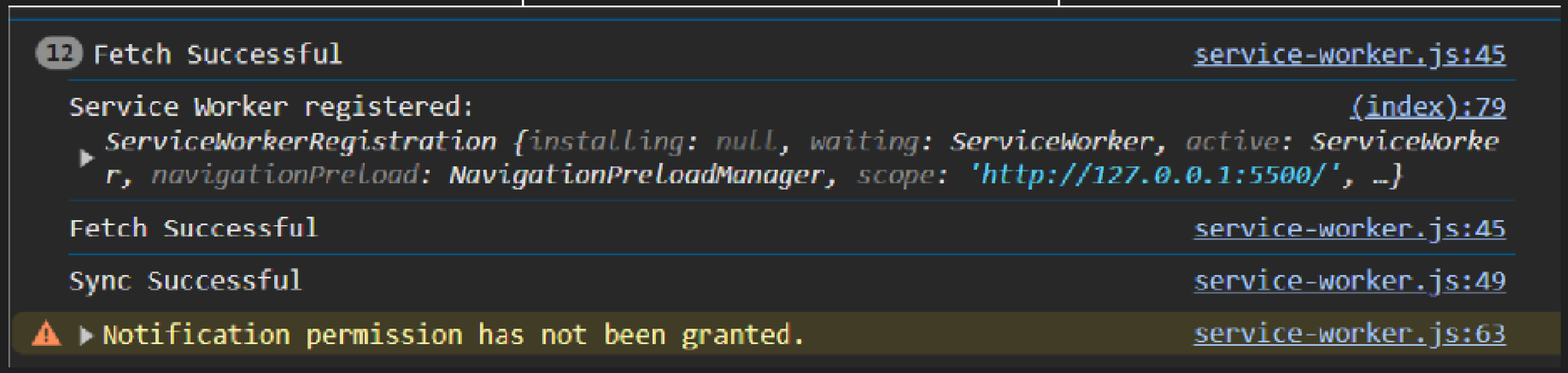
The Fetch API allows service workers to intercept and handle network requests made by the web application. This interception capability enables a wide range of features, such as caching responses, serving offline content,etc.

SYNC

This feature is useful for scenarios where the web application needs to synchronize data with a server periodically, ensuring that updates are applied consistently.

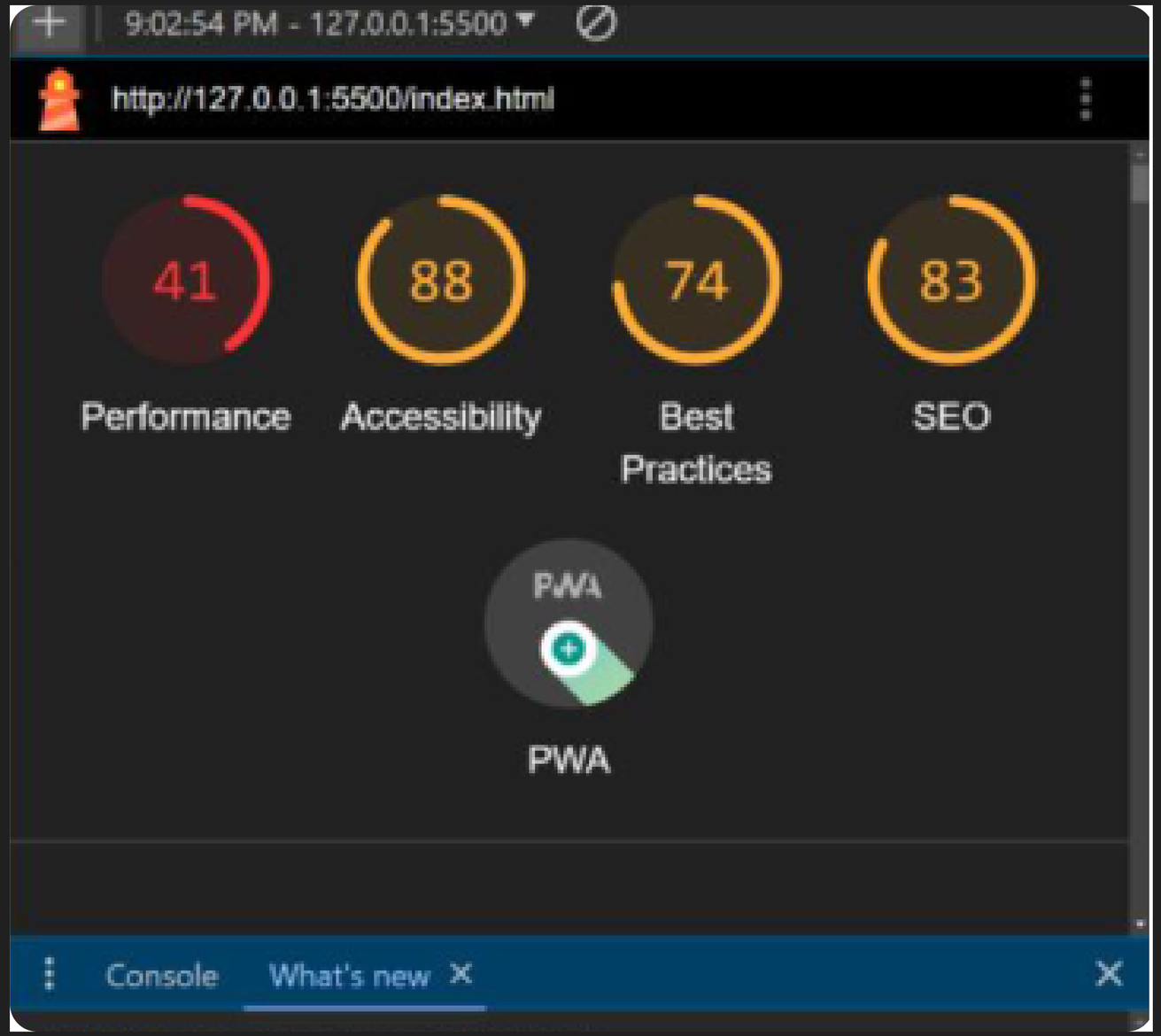
PUSH

The Push API enables web applications to receive push notifications from a server, even when the web application is not open or actively being used by the useran Bebas



GOOGLE LIGHTHOUSE

Google Lighthouse is an automated tool developed by Google that assesses the performance and quality of web pages. It is integrated into the Google Chrome browser and provides insights into various aspects of web development, including performance, accessibility, best practices, and search engine optimization (SEO). Lighthouse performs audits on web pages by simulating a user's experience and analyzing the page's behavior and structure.



THANK YOU!