FLUTTER APP
PRESCHOOL TUTOR

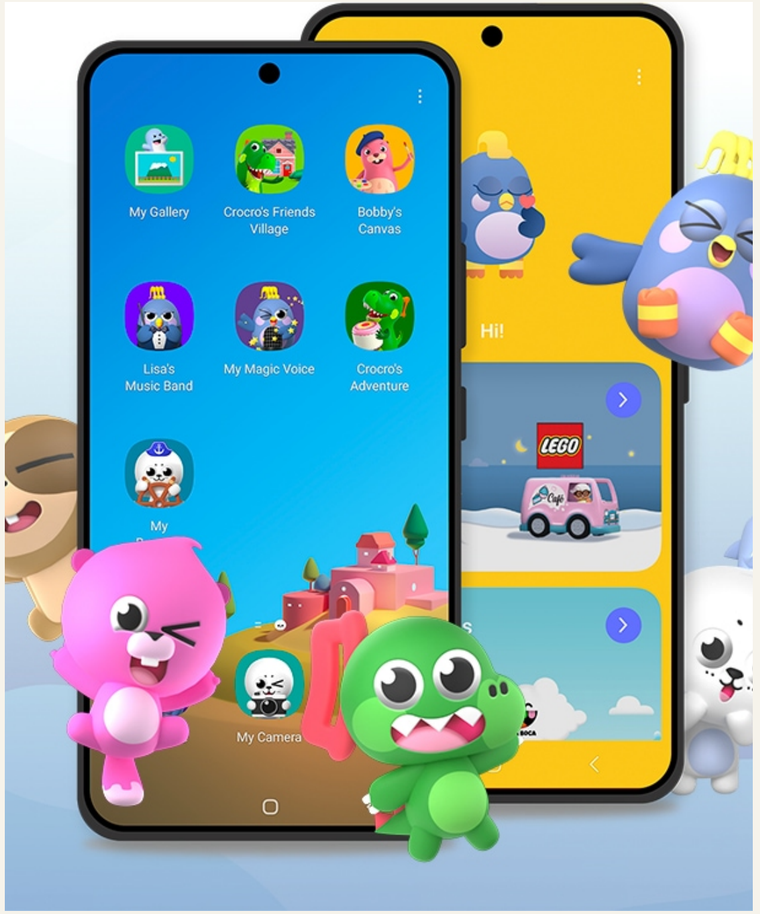
Presented By :

Gaurang Mapuskar -35

CONTENT

Introduction

Vibrant and educational platform designed to spark creativity and learning in young minds! This app is a delightful gateway for children aged 3-8 into the world of interactive games, engaging activities, and playful learning experiences. With a colorful and intuitive interface, the Kids Starter App offers a safe and exciting space where children can explore, discover, and grow.



Problem Statement

In today's digital age, children are exposed to various screens and devices from a very young age. However, the challenge lies in providing them with age-appropriate and educational content. Many existing apps for kids lack a balance between entertainment and learning, often leaning too much towards one aspect. Our goal is to bridge this gap by creating an app that offers a diverse range of activities while encouraging cognitive development.

Objective of the Project

The primary objective of our project is to create an engaging and safe digital environment for children. We aim to:

- Foster creativity and imagination through interactive games and activities.
- Promote early learning in subjects such as math, language, and problem-solving.
- Provide a platform where kids can explore, play, and learn at their own pace.
- Ensure parents' peace of mind with age-appropriate content and parental controls.

FUNCTIONALITIES

Interactive Learning Games

Engaging games like features that teach basic math, colors, shapes and General knowledge

Creative Activities

Drawing, coloring tools to spark creativity.

Kid-Friendly Interface

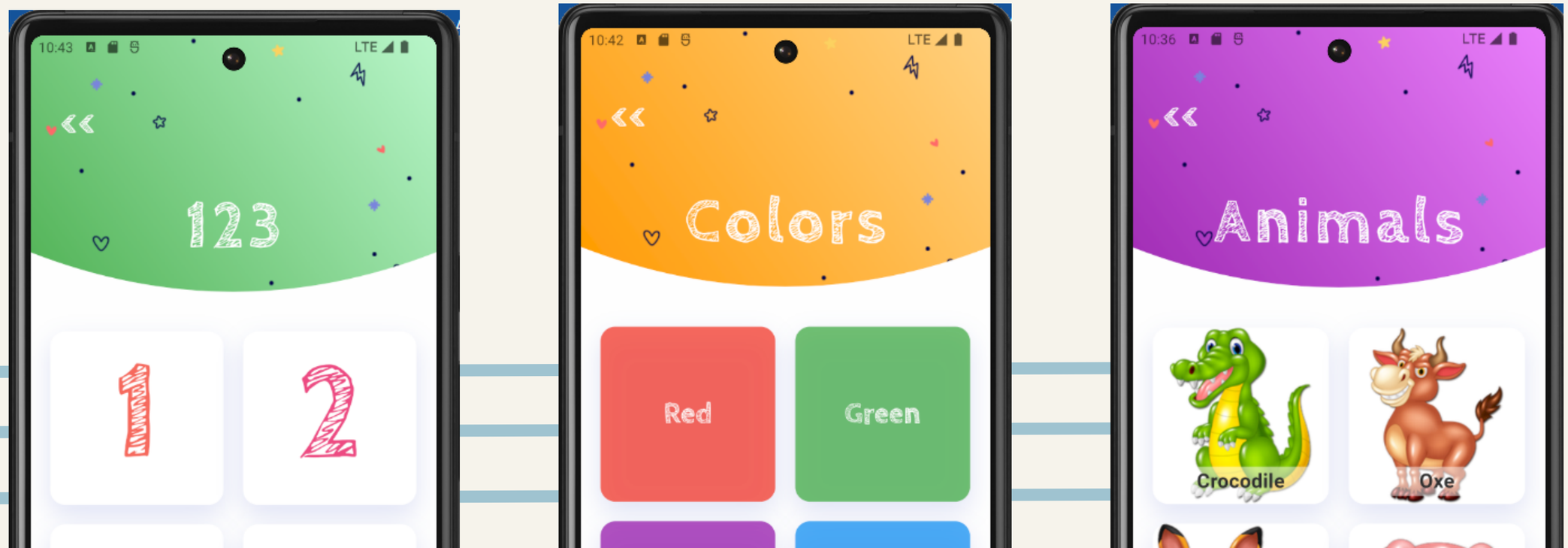
Simple and intuitive design for easy navigation.

Audio Visual Learning

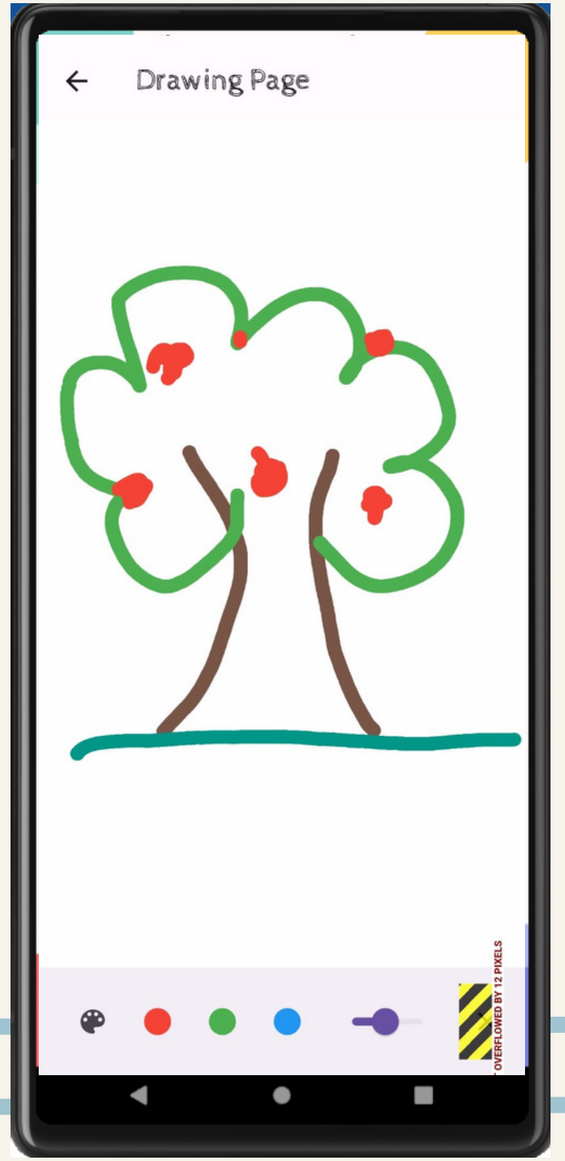
Engaging Content with audio visual media for better understanding

IMPLEMENTATION...

Immersive Audio Visual Learning Experience



Explore Your Creativity with coloring stencil



Conclusion

In conclusion, our kids' starter app is a labor of love aimed at nurturing young minds in a digital age. By combining entertainment with education, we hope to make learning a fun and enjoyable experience for children. We are committed to continuous improvement and look forward to expanding our app with new features and activities.

References

- ABCmouse: Link
- Khan Academy Kids: Link
- "Educational Apps for Kids" - Research Paper by Child Development Institute: Link
- "Cognitive Development in Preschool Children" - Study by American Academy of Pediatrics: Link

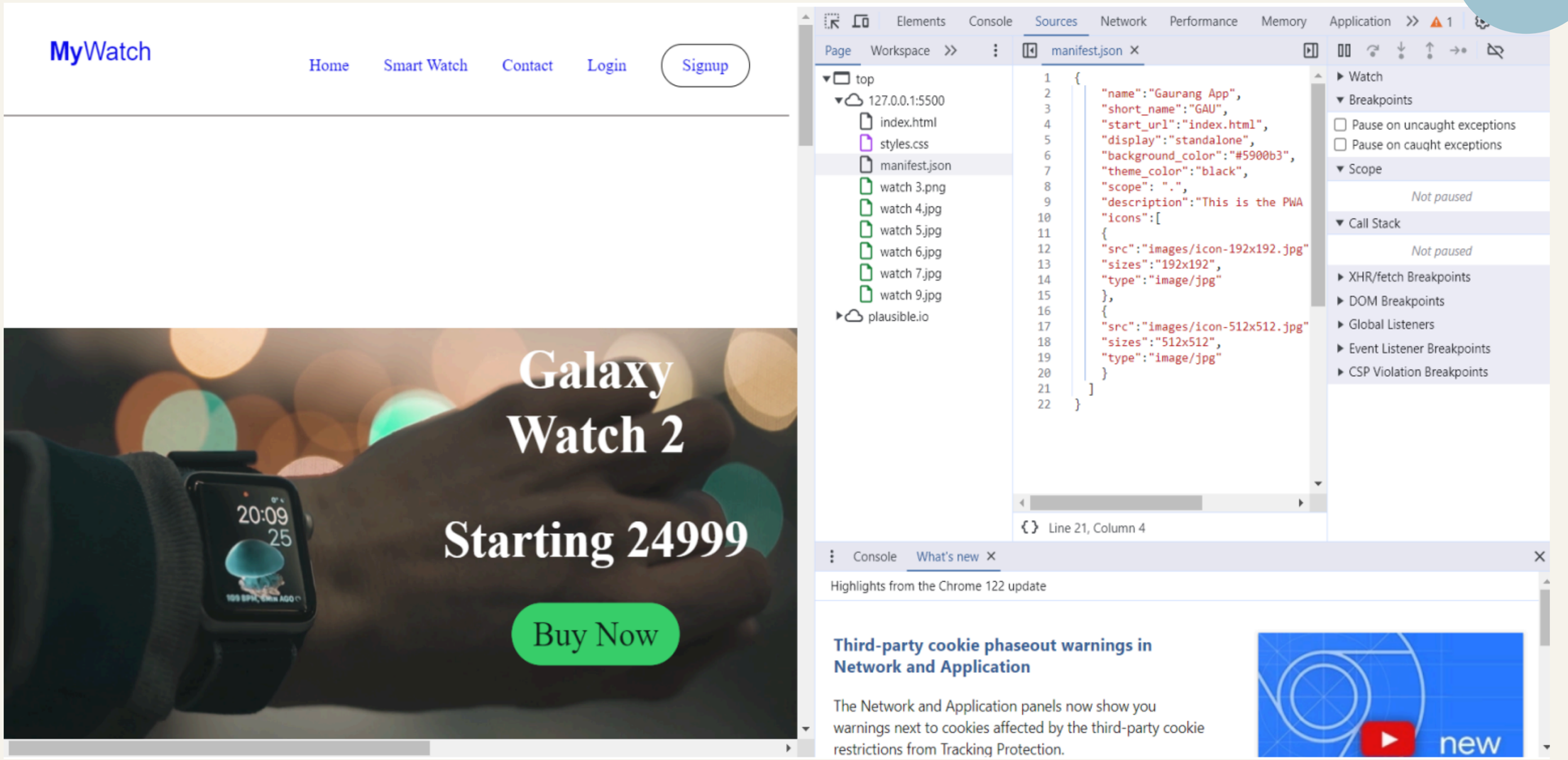
THANK YOU

INTRODUCTION

PWAs enhance the overall performance and usability of ecommerce websites, making them indispensable for businesses looking to provide a modern and convenient shopping experience to their customers. PWAs offer a seamless user experience by enabling fast loading times, offline access to content, and push notifications—all essential elements for engaging customers in the competitive ecommerce landscape.

OBJECTIVES

- Homescreen Installation
- Offline Functionality
- Push Notifications
- Fetch, Sync Event


MyWatch
Home
Smart Watch
Contact
Login
Signup
Galaxy
Watch 2
Starting 24999
Buy Now
Elements
Console
Sources
Network
Performance
Memory
Application
Page
Workspace
manifest.json
top
127.0.0.1:5500
index.html
styles.css
manifest.json
watch 3.png
watch 4.jpg
watch 5.jpg
watch 6.jpg
watch 7.jpg
watch 9.jpg
plausible.io
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"sizes":"192x192",
"type":"image/jpg"
},
{
"src":"images/icon-512x512.jpg"
"sizes":"512x512",
"type":"image/jpg"
}
]
}
Line 21, Column 4
Watch
Breakpoints
Pause on uncaught exceptions
Pause on caught exceptions
Scope
Not paused
Call Stack
Not paused
XHR/fetch Breakpoints
DOM Breakpoints
Global Listeners
Event Listener Breakpoints
CSP Violation Breakpoints
Console
What's new
Highlights from the Chrome 122 update
Third-party cookie phaseout warnings in Network and Application
The Network and Application panels now show you warnings next to cookies affected by the third-party cookie restrictions from Tracking Protection.
new

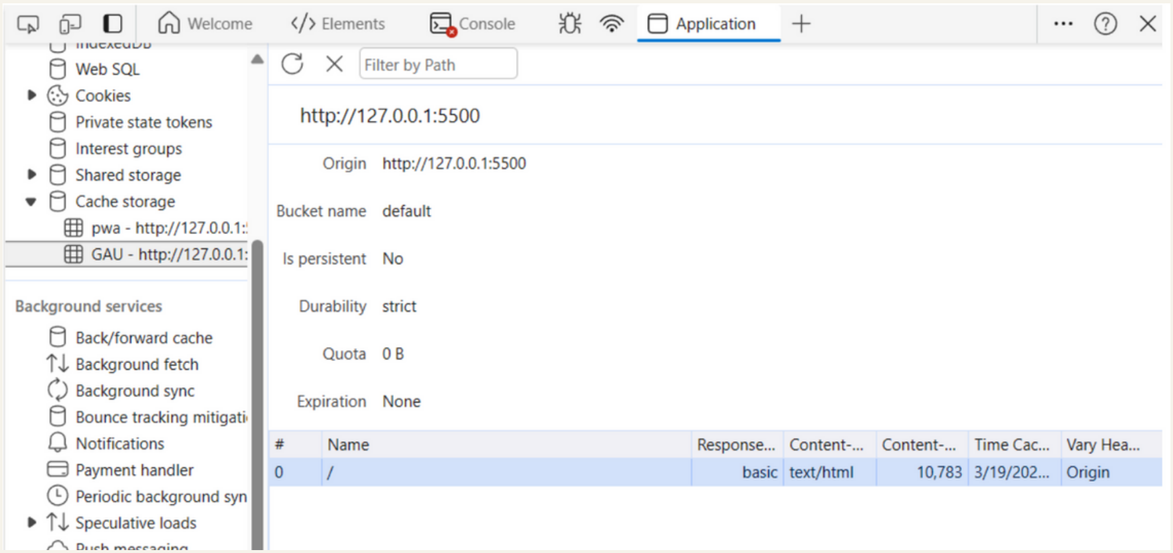
JS serviceworker.js

```
self.addEventListener("fetch", function (event) {
console.log(event.request.url);
event.respondWith(
caches.match(event.request).then(function (response) {
return response || fetch(event.request);
})
);
});
self.addEventListener('install', function(event) {
Name:Gaurang Mapuskar Class:D15B
Roll. No:35
// Perform some task
});
self.addEventListener('activate', function(event) {
event.waitUntil(
// Perform cleanup tasks or cache management here
// For example, deleting outdated caches
caches.keys().then(function(cacheNames) {
return Promise.all(
cacheNames.filter(function(cacheName) {
// Check if the cache name is outdated and needs to be deleted
// For example, you might compare cache names with the current cache
version
}).map(function(cacheName) {
// Delete the outdated cache
return caches.delete(cacheName);
})
);
})
);
});
```

4

Fetch Event

The fetch event in Progressive Web Apps (PWAs) triggers whenever the app makes a network request. It allows developers to intercept these requests, enabling intelligent caching for offline access and faster load times. By utilizing fetch, PWAs can serve cached content while waiting for updated data from the network, ensuring a seamless and responsive user experience.

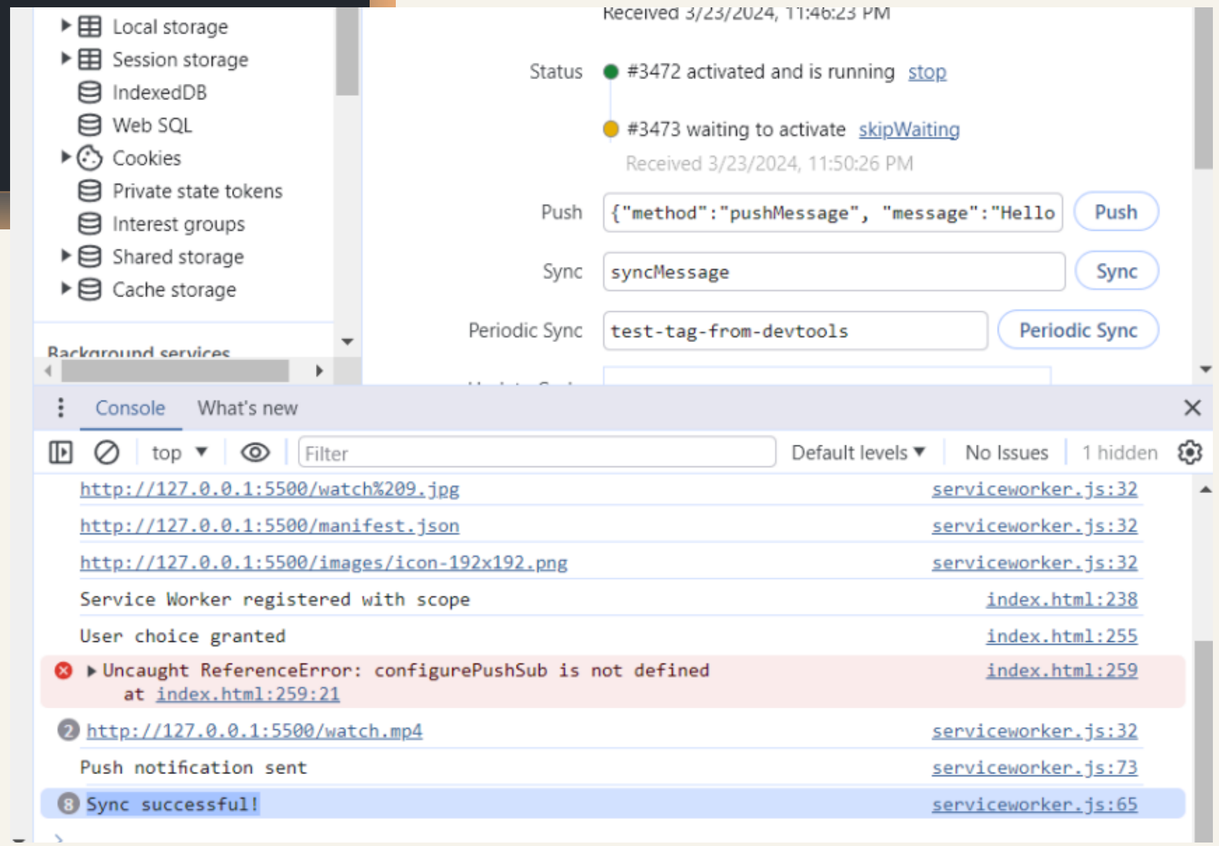


JS serviceworker.js

```
self.addEventListener('sync', event ⇒ {
if
(event.tag = = = 'syncMessage') {
console.log("Sync successful!")
}
});
```

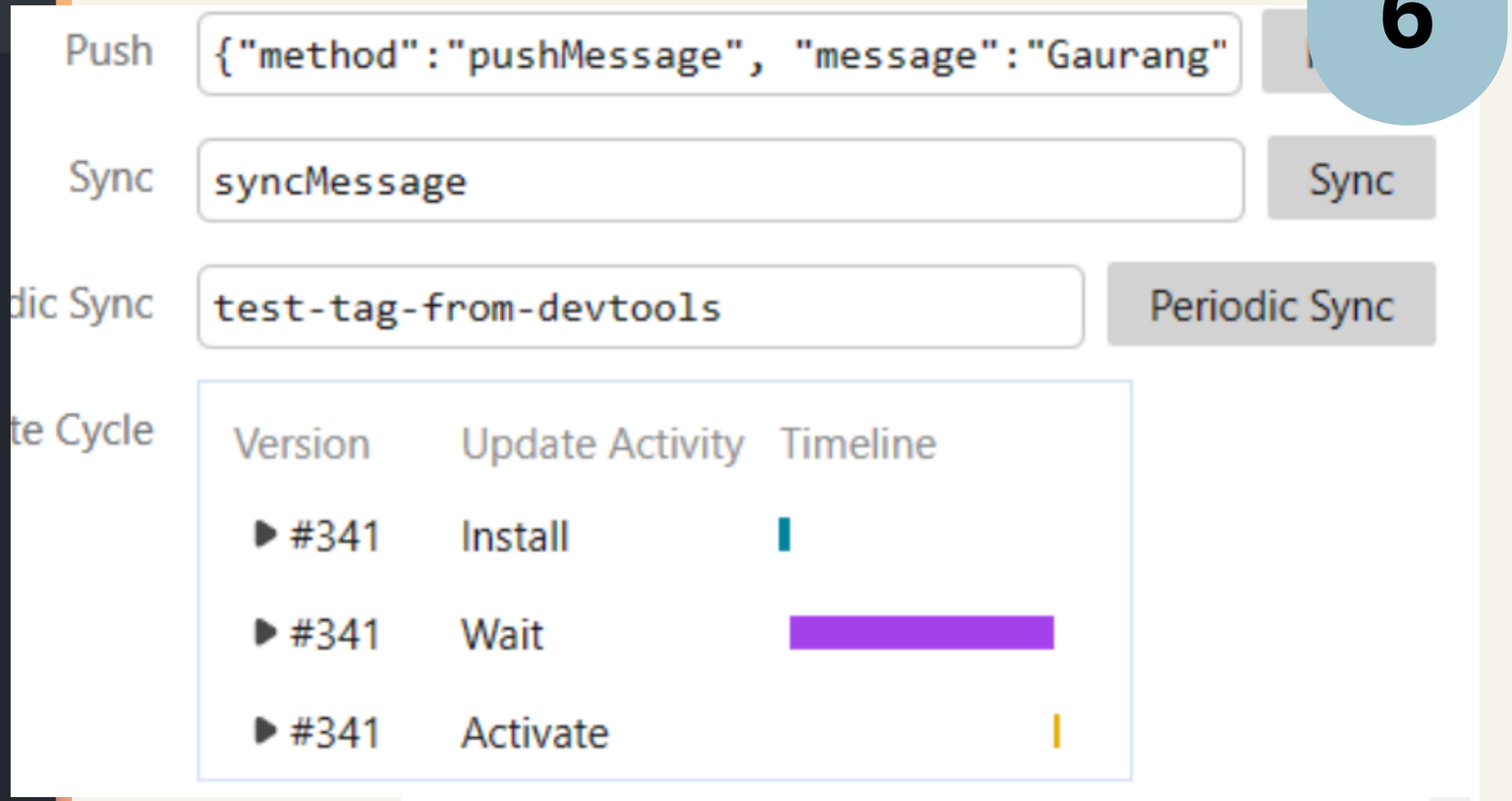
Sync Event

The **sync** event in Progressive Web Apps (PWAs) enables background synchronization of data when the device reconnects to the internet. This allows PWAs to queue up tasks, such as sending form data or updating content, ensuring a seamless user experience even when offline. The **sync** event enhances the reliability and usability of PWAs by automatically syncing user actions once the device has a stable internet connection.



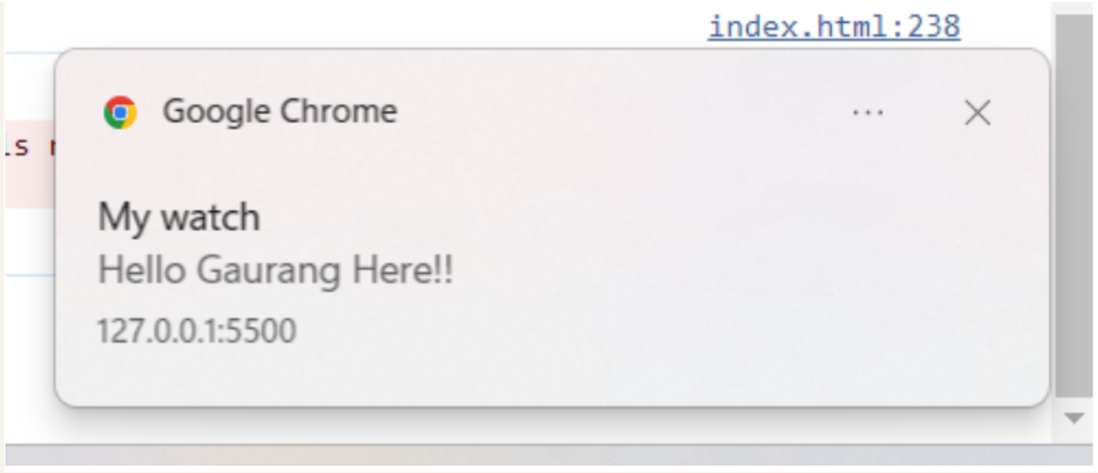
```
JS serviceworker.js

self.addEventListener('push', function (event) {
if (event && event.data) {
var data = event.data.json();
if (data.method == "pushMessage") {
console.log("Push notification sent");
event.waitUntil(self.registration.showNotification("My watch", {
body: data.message
}))
}
}
})
var checkResponse = function (request) {
return new Promise(function (fulfill, reject) {
fetch(request).then(function (response) {
if (response.status ! == 404) {
fulfill(response);
} else {
reject();
}
}, reject);
});
};
```

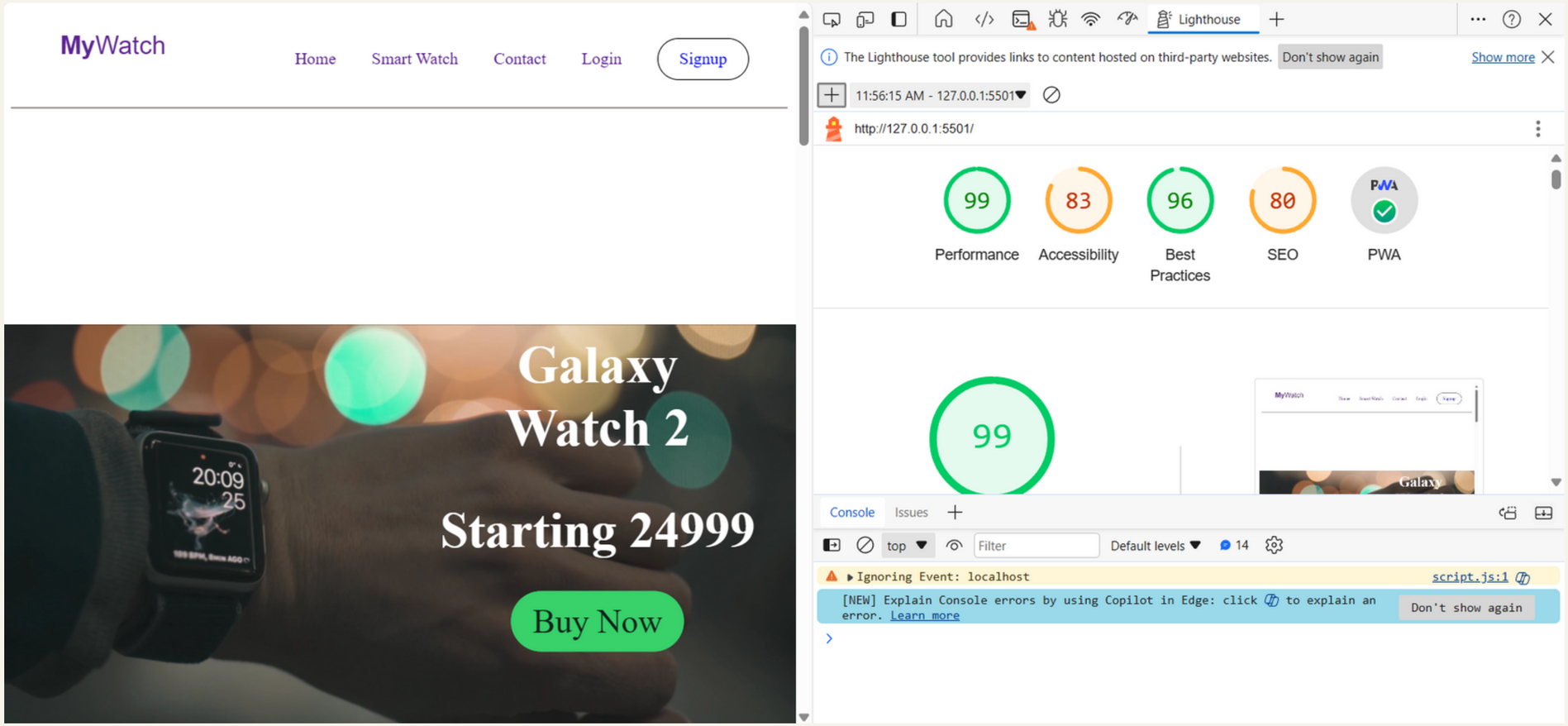


Push Event

Push event enables real-time notifications to be sent to users' devices. When triggered by a server-sent push notification, the PWA can display timely updates, promotions, or important information to engage users, even when the app is not actively open.



PWA Score


MyWatch
Home
Smart Watch
Contact
Login
Signup
Galaxy
Watch 2
Starting 24999
Buy Now
Lighthouse
The Lighthouse tool provides links to content hosted on third-party websites.
Don't show again
Show more
11:56:15 AM - 127.0.0.1:5501
http://127.0.0.1:5501/
99
Performance
83
Accessibility
96
Best Practices
80
SEO
PWA
99
Console
Issues
top
Filter
Default levels
14
Ignoring Event: localhost
script.js:1
[NEW] Explain Console errors by using Copilot in Edge: click to explain an error. Learn more
Don't show again

THANK YOU

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