


# DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

[Nike]

## 1.Functional Testing


### 1. Product Listing:

Wishlist (0)




Just In

Nike Air Force 1 React  
Men's Shoes  
White  
MRP : ₹ 13295




Just In


Nike Court Vision Low Next Nature  
Men's Shoes  
Black  
MRP : ₹ 4995



Trending

Nike Renew Run 3  
Men's Running Shoes  
Blue  
MRP : ₹ 7295

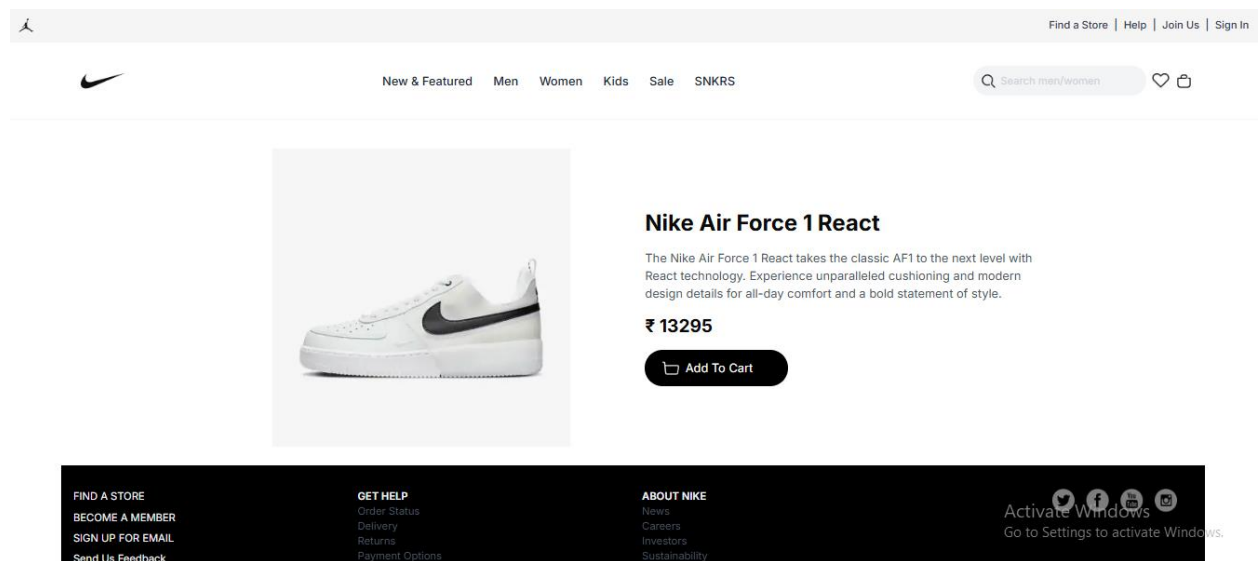




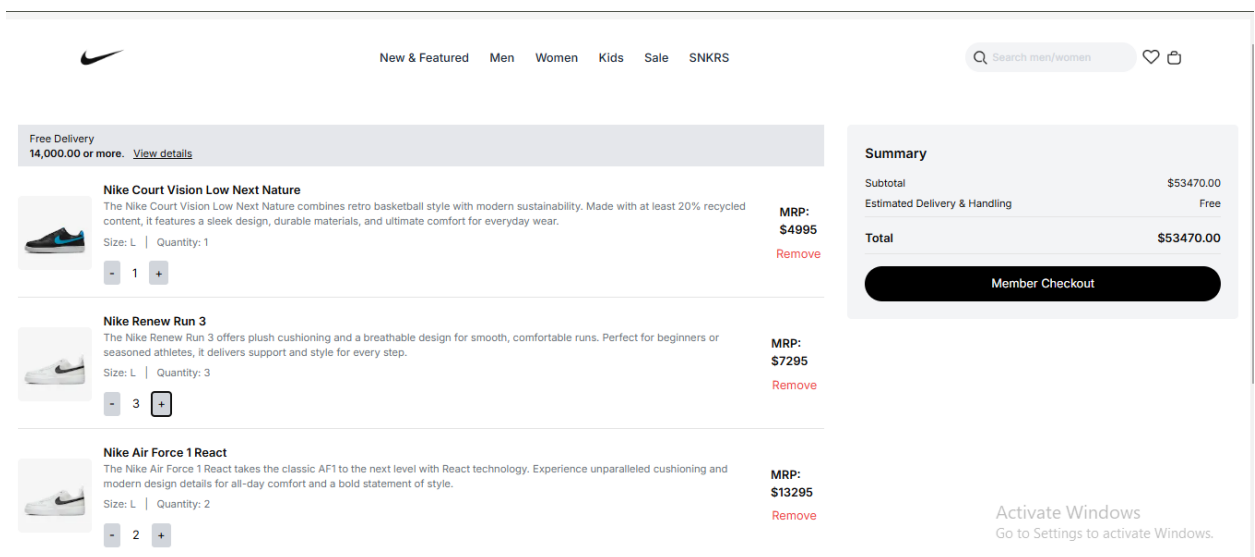
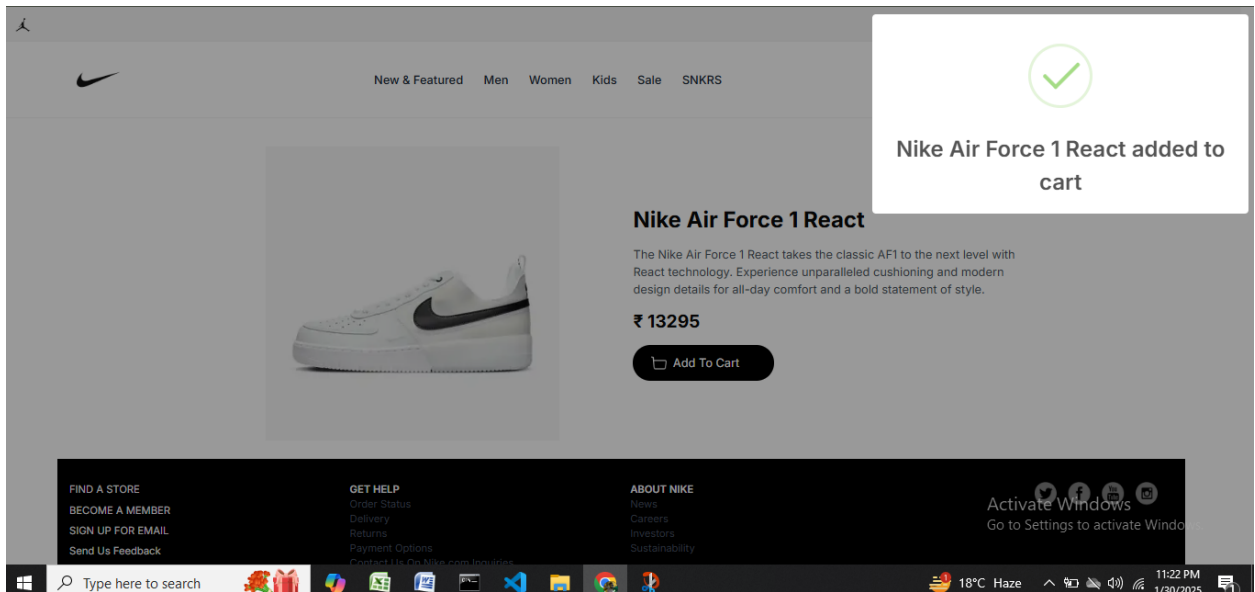
Activate Windows

Go to Settings to activate Windows.

## 2. Detail Page:



## 3. Add to Cart and add , Remove Function:



4. Add wishlist and add remove wishlist page:



Products (16)

- Nike Air Force 1 React
- Nike Court Vision Low Next Nature
- Nike Renew Run 3
- Nike Air Force 1 Mid '07
- Nike Standard Issue Basketball Jersey
- Nike Dunk Low Retro SE
- Nike Dri-FIT UV Hyverse
- Nike Court Vision Low
- Nike Air Max 270
- Nike Air Force 1 PLT.AF ORM
- Air Jordan 1 Elevate Low
- Nike Pegasus 40
- Nike Zoom Fly 5
- Nike Blazer Mid '77 Vintage
- Nike Metcon 8
- Nike Waffle One SE

Wishlist (2)



**Just In**  
Nike Air Force 1 React  
Men's Shoes  
White  
MRP : ₹ 13295



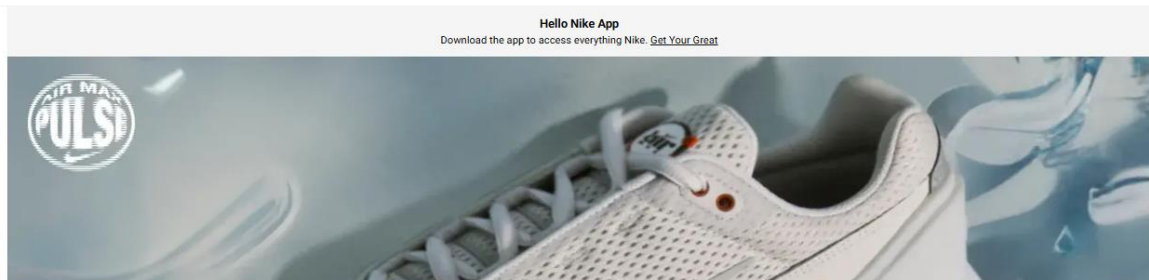
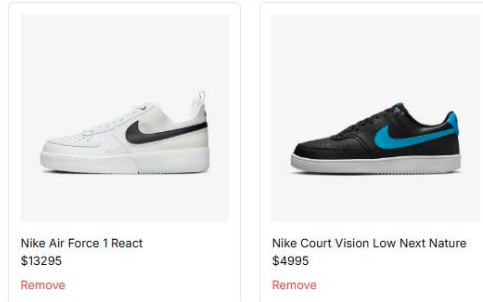
**Just In**  
Nike Court Vision Low Next Nature  
Men's Shoes  
Black  
MRP : ₹ 4995




**Trending**  
Nike Renew Run 3  
Men's Running Shoes  
Blue  
MRP : ₹ 7295

Activate Windows  
Go to Settings to activate Windows.



### My Wishlist



5.Add Search bar function:




[New & Featured](#)
[Men](#)
[Women](#)
[Kids](#)
[Sale](#)
[SNKRS](#)


**Products (16)**

- Nike Air Force 1 React
- Nike Court Vision Low Next Nature
- Nike Renew Run 3
- Nike Air Force 1 Mid '07
- Nike Standard Issue Basketball Jersey
- Nike Dunk Low Retro SE
- Nike Dri-FIT UV Hyverse
- Nike Court Vision Low
- Nike Air Max 270
- Nike Air Force 1 PLT.AF.ORM
- Air Jordan 1 Elevate Low
- Nike Pegasus 40
- Nike Zoom Fly 5
- Nike Blazer Mid '77 Vintage
- Nike Metcon 8
- Nike Waffle One SE


Wishlist (2)




**Just In**  
 Nike Air Force 1 React  
 Men's Shoes  
 White  
 MRP : ₹ 13295





**Just In**  
 Nike Court Vision Low Next Nature  
 Men's Shoes  
 Black  
 MRP : ₹ 4995



**Trending**  
 Nike Renew Run 3  
 Men's Running Shoes  
 Blue  
 MRP : ₹ 7295




[New & Featured](#)
[Men](#)
[Women](#)
[Kids](#)
[Sale](#)
[SNKRS](#)


**Products (4)**

- Nike Standard Issue Basketball Jersey
- Nike Air Force 1 PLT.AF.ORM
- Air Jordan 1 Elevate Low
- Nike Waffle One SE


Wishlist (2)



**Just In**  
 Nike Standard Issue Basketball Jersey  
 Women's Basketball Jersey  
 White  
 MRP : ₹ 2895



**Just In**  
 Nike Air Force 1 PLT.AF.ORM  
 Women's Shoes  
 White  
 MRP : ₹ 8695



**Promo Exclusion**  
 Air Jordan 1 Elevate Low  
 Women's Shoes  
 White  
 MRP : ₹ 11895

6. Fetching data and set Categories  
men/women product:

Find Your Shoe

## Gear Up

Shop Men's



Nike Air Force 1 React  
Men's Shoes

₹ 13295



Nike Court Vision Low  
Next Nature  
Men's Shoes

₹ 4995



Nike Standard Issue  
Basketball Jersey  
Women's Basketball  
Jersey

₹ 2895

Shop Women's



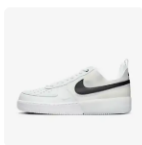
Nike Air Force 1  
PLT.AF.ORM  
Women's Shoes

₹ 8695

Find Your Shoe

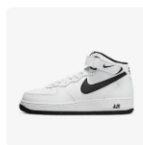
## Gear Up

Shop Men's



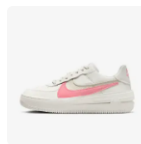
Nike Renew Run 3  
Men's Running Shoes

₹ 7295



Nike Air Force 1 Mid '07  
Men's Shoes

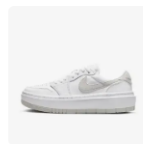
₹ 10795



Nike Air Force 1  
PLT.AF.ORM  
Women's Shoes

₹ 8695

Shop Women's



Air Jordan 1 Elevate Low  
Women's Shoes

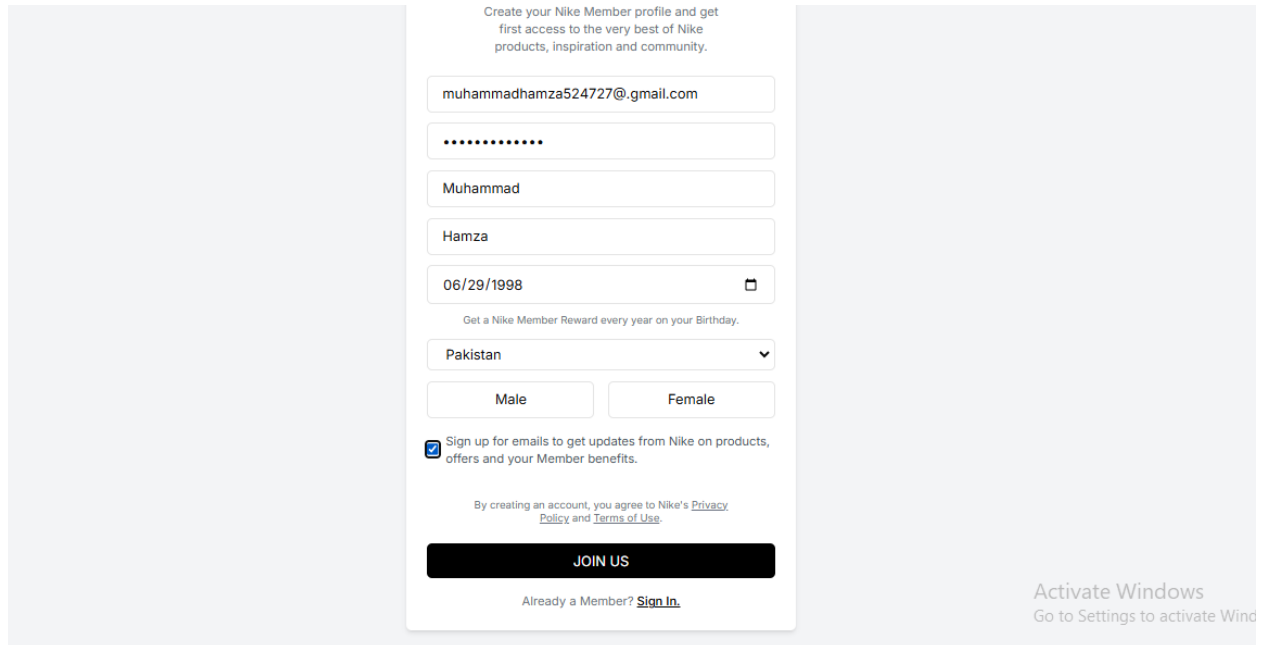
₹ 11895

Don't Miss

Activate Windows

Go to Settings to activate Windows.

## 7. Sign In /Login Page:



Create your Nike Member profile and get first access to the very best of Nike products, inspiration and community.

muhammadhamza524727@gmail.com

.....

Muhammad

Hamza

06/29/1998

Get a Nike Member Reward every year on your Birthday.

Pakistan

Male Female

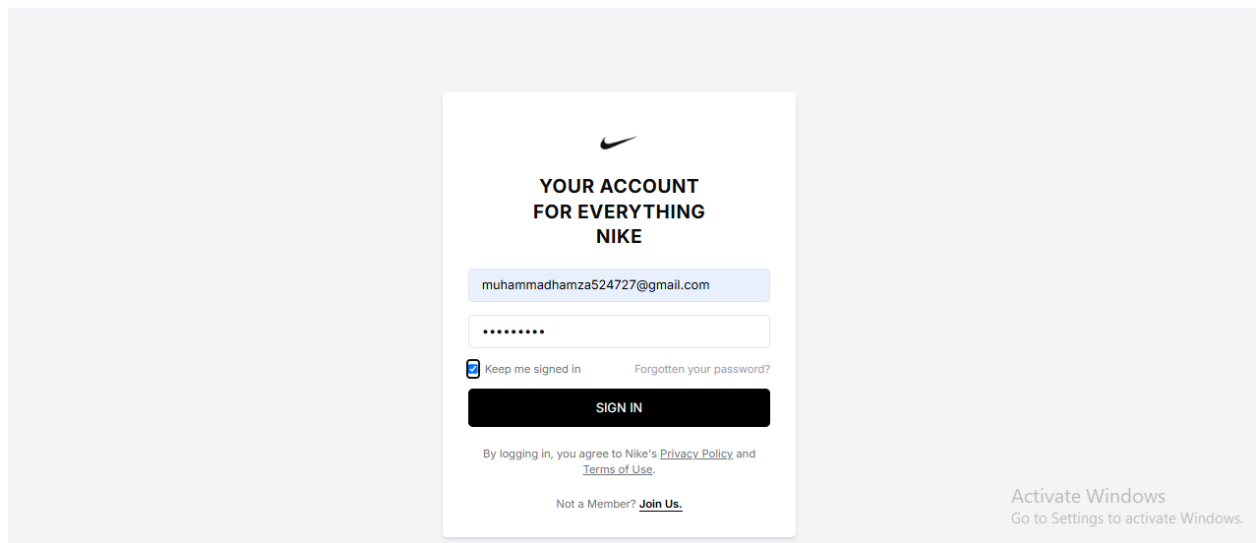
☒ Sign up for emails to get updates from Nike on products, offers and your Member benefits.


By creating an account, you agree to Nike's [Privacy Policy](#) and [Terms of Use](#).

JOIN US

Already a Member? [Sign In](#).

Activate Windows  
Go to Settings to activate Windows.





**YOUR ACCOUNT  
FOR EVERYTHING  
NIKE**

muhammadhamza524727@gmail.com

.....

☒ Keep me signed in [Forgotten your password?](#)

SIGN IN

By logging in, you agree to Nike's [Privacy Policy](#) and [Terms of Use](#).

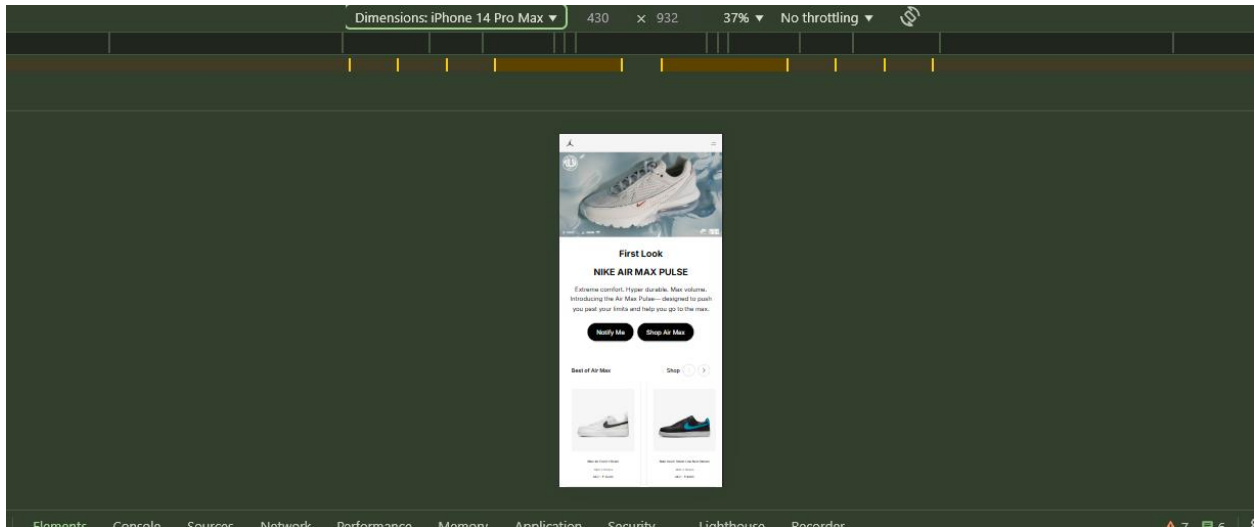
Not a Member? [Join Us](#).

Activate Windows  
Go to Settings to activate Windows.

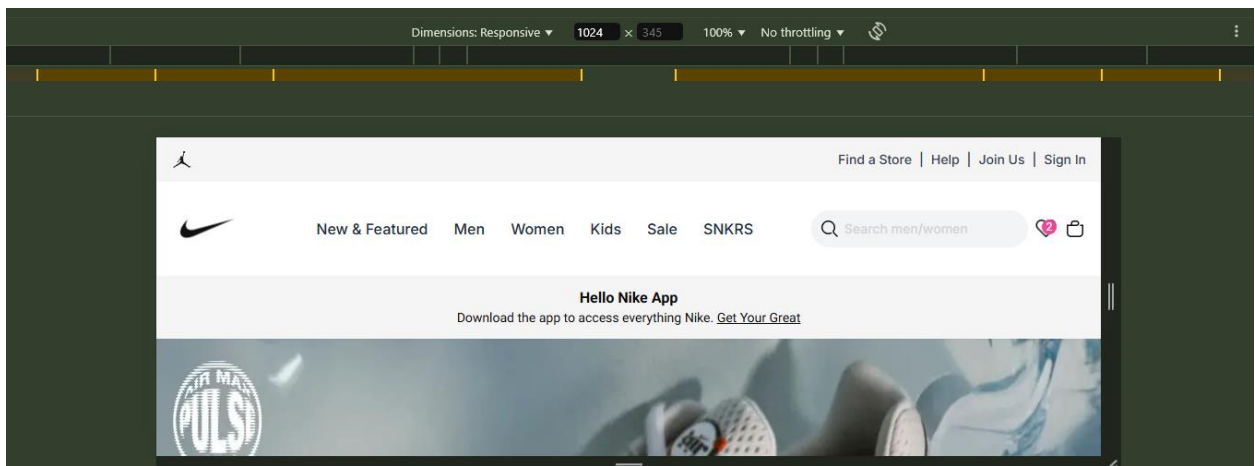
## 8. Responsiveness:

Mobile Screen





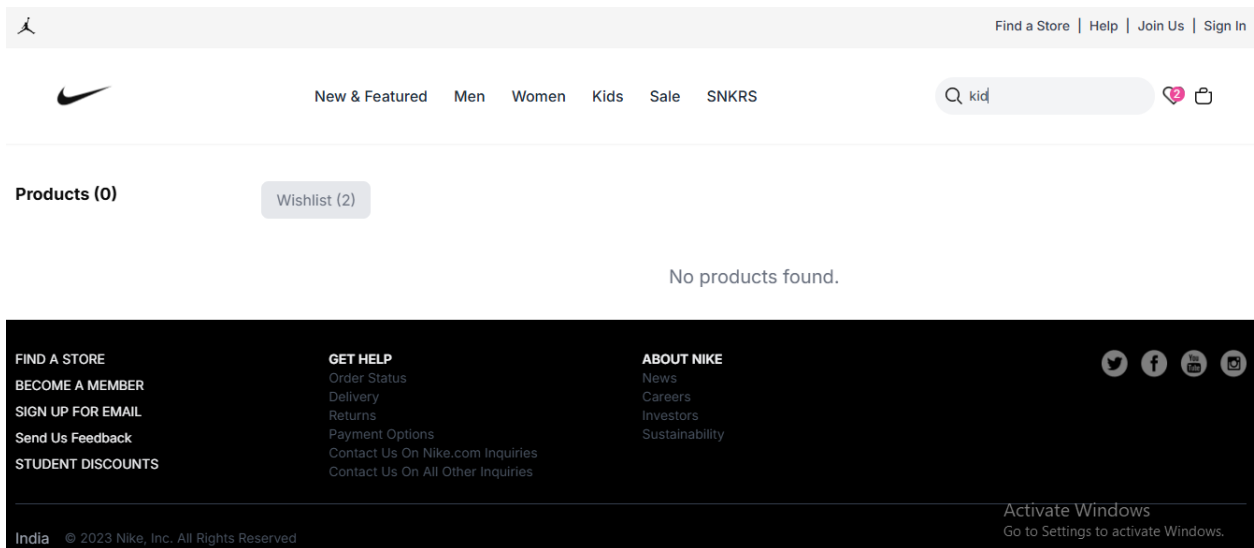
Laptop Screen:



## 2.Error Handling

```
296 const ProductGalleryApi: React.FC = () => {
302   const searchQuery = searchParams?.get("search") || ""; // Safely handle null searchParams
303
304   useEffect(() => {
305     // Load wishlist from localStorage on component mount
306     const savedWishlist = JSON.parse(localStorage.getItem("wishlist") || "[]");
307     setWishlist(savedWishlist);
308
309     const fetchProducts = async () => {
310       setIsLoading(true);
311       try {
312         const fetchedProducts: Product[] = await client.fetch(allProducts);
313         setProducts(fetchedProducts);
314       } catch (error) {
315         console.error("Error fetching products:", error);
316       } finally {
317         setIsLoading(false);
318       }
319     };
  }
```

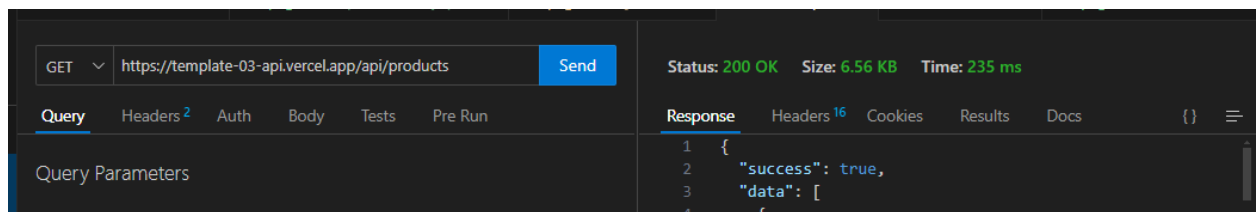
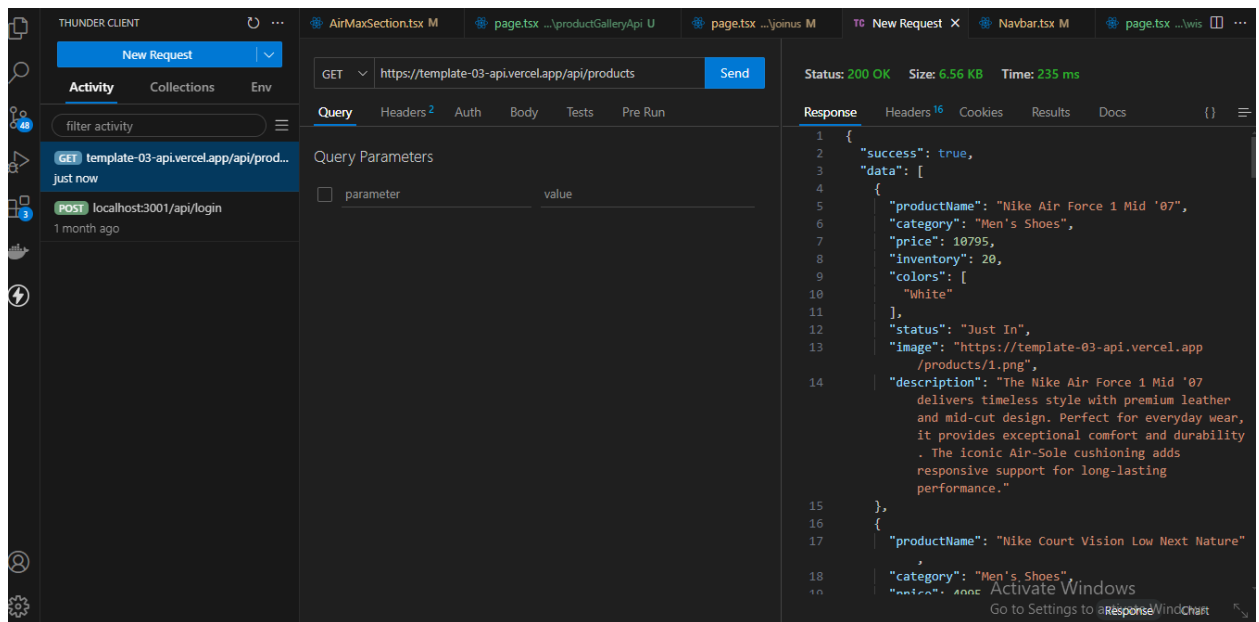
## Fallback UI:



## Testing Api:

["template-03-api.vercel.app/api/products"](https://template-03-api.vercel.app/api/products)

Status: (200)ok



## Test Case Results:

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	High	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	Handled gracefully
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	Works as expected

TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	Test successful
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## 3.Performance Optimization

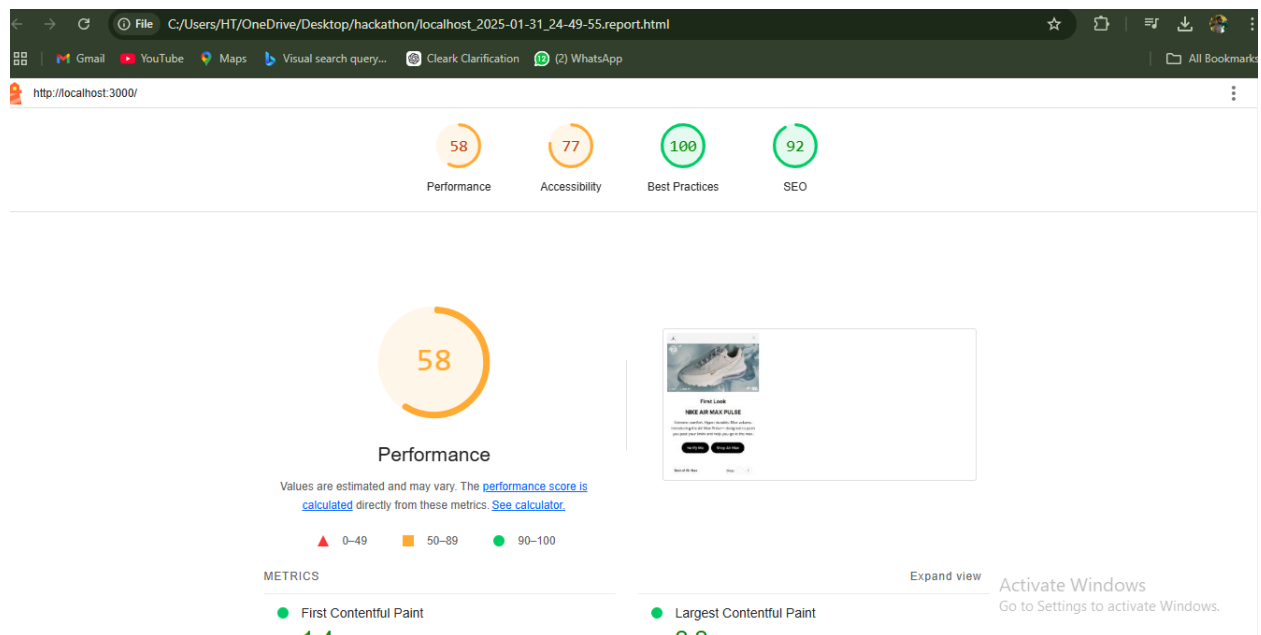
### Installation :

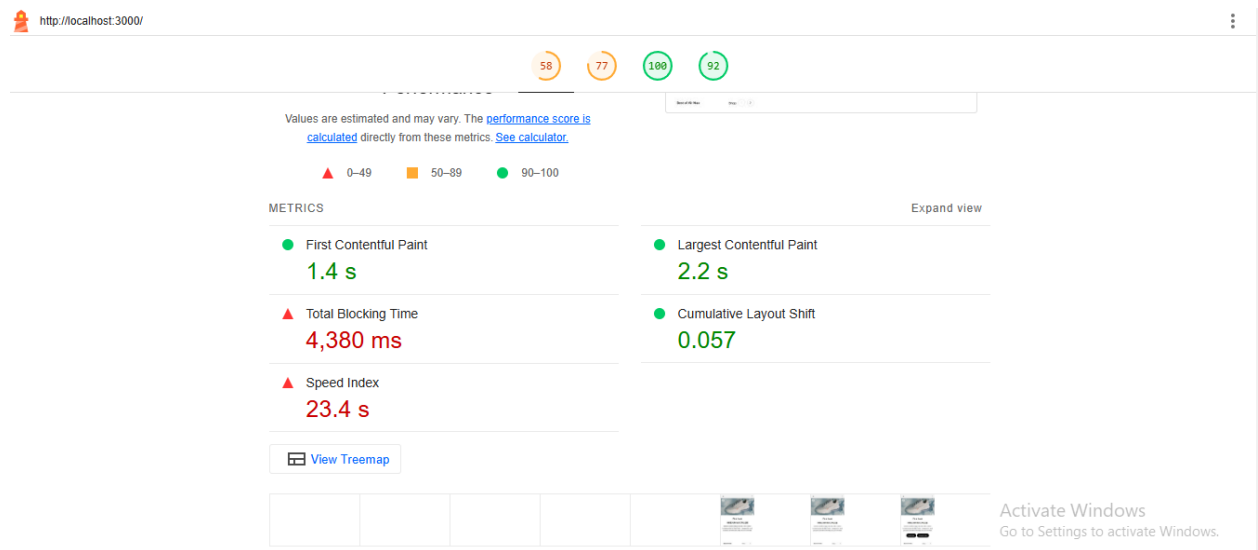
`npm install -g lighthouse`

`npm fund`

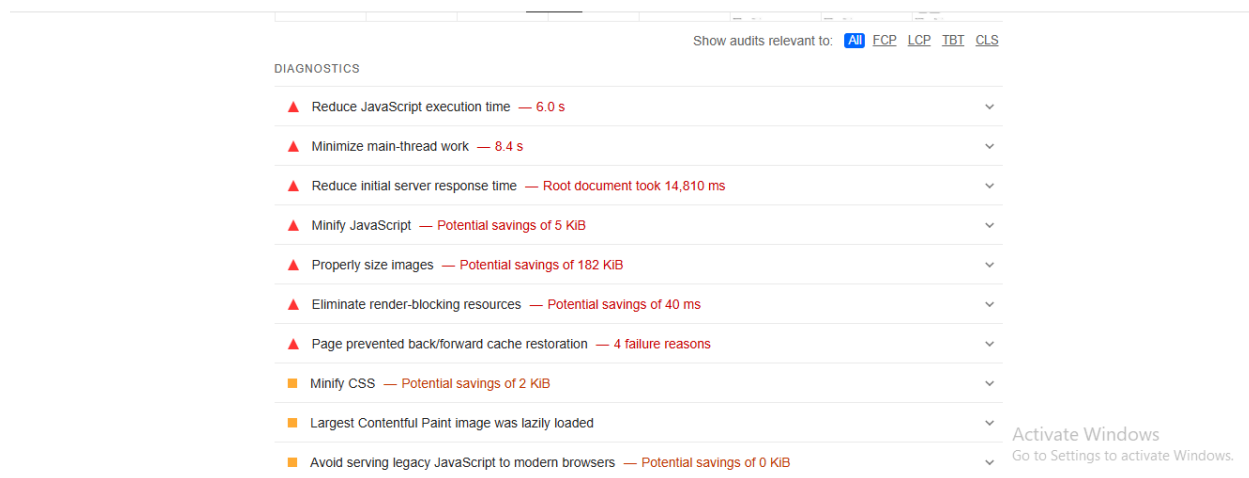
`lighthouse http://localhost:3000 --view`

### Result:





## DIAGNOSTICS:



58

77

100

92

77

### Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so [manual testing](#) is also encouraged.

#### NAMES AND LABELS

▲ Buttons do not have an accessible name

▲ Links do not have a discernible name

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

Activate Windows  
Go to Settings to activate Windows.

The screenshot shows the Lighthouse audit results for the 'Best Practices' category. At the top, there are four circular progress indicators for different categories: 58 (orange), 77 (orange), 100 (green), and 92 (green). The 'Best Practices' category is highlighted with a large green circle containing the number 100. Below this, the text 'Best Practices' is displayed. Underneath, there are two sections: 'TRUST AND SAFETY' and 'GENERAL'. The 'TRUST AND SAFETY' section lists three items, each with a radio button and a dropdown arrow: 'Ensure CSP is effective against XSS attacks', 'Use a strong HSTS policy', and 'Ensure proper origin isolation with COOP'. The 'GENERAL' section is partially visible at the bottom, showing a red triangle icon and the text 'Missing source maps for large first-party JavaScript'.

Category	Score
58	
77	
100	Best Practices
92	

100

Best Practices

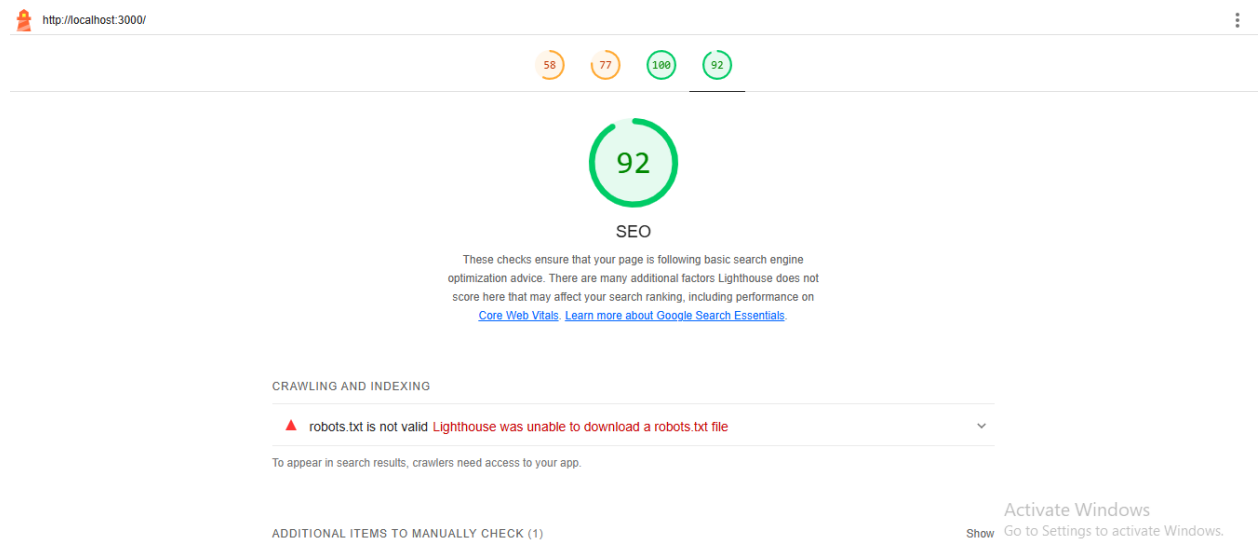
TRUST AND SAFETY

- ☐ Ensure CSP is effective against XSS attacks
- ☐ Use a strong HSTS policy
- ☐ Ensure proper origin isolation with COOP

GENERAL

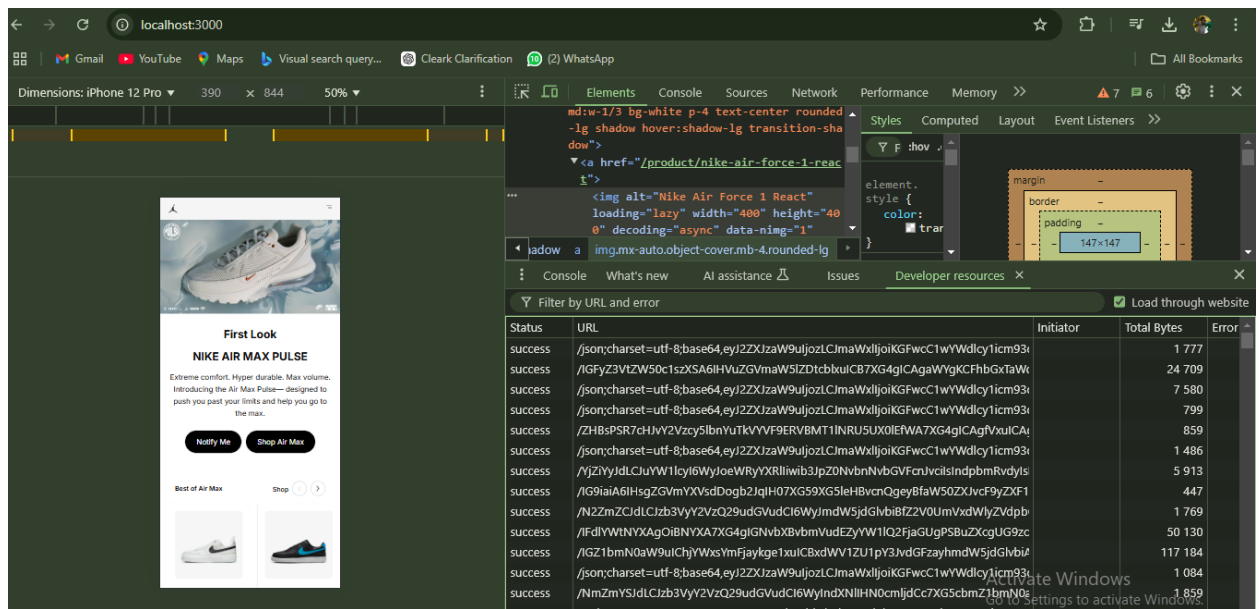
Missing source maps for large first-party JavaScript

# SEO

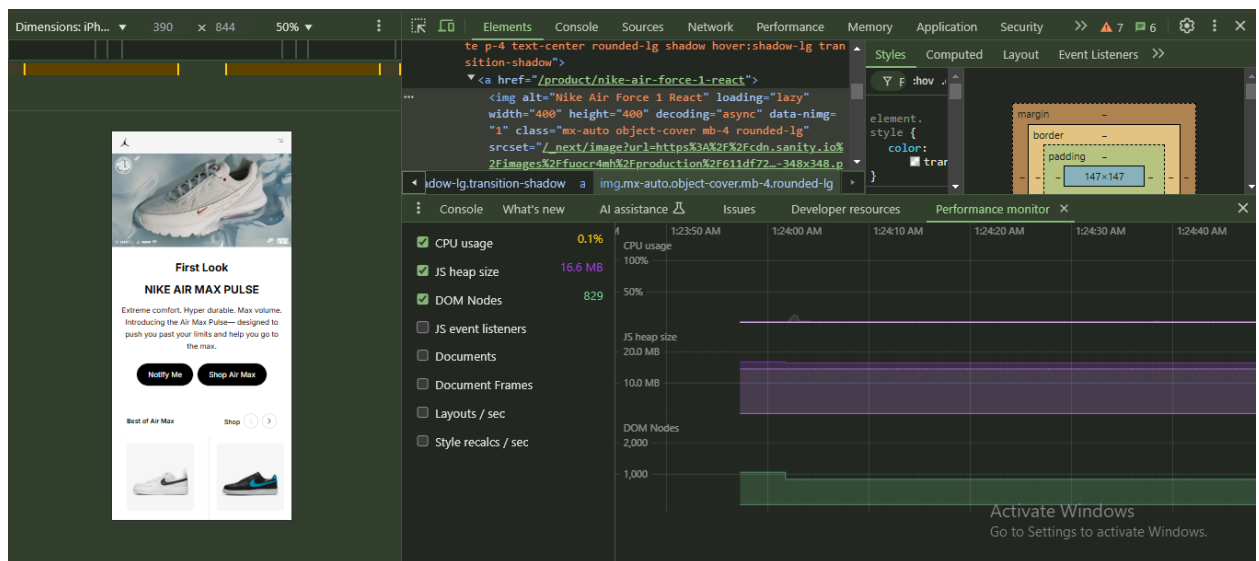


## 4. Cross-Browser and Device Testing

## Developer Resources:

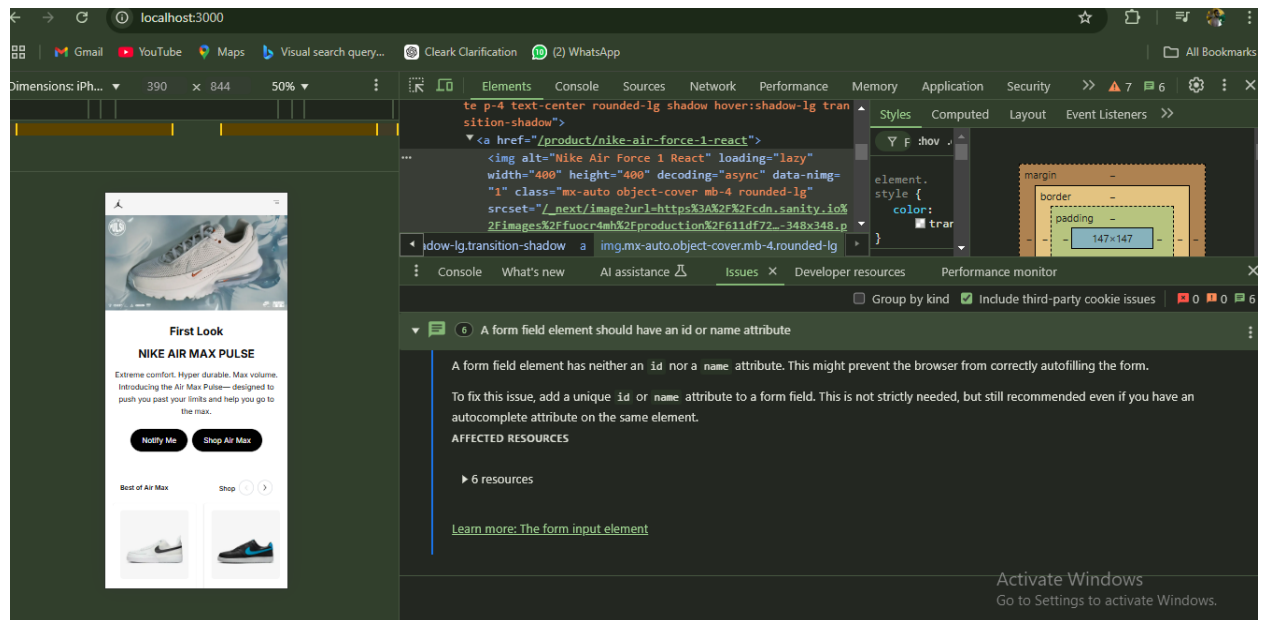


## Performance monitor:



## Having Issue:





## 5. Security Testing

### Security

