DAY 5 - TESTING AND BACKEND REFINEMENT

MORENT RENTAL CAR



FUNCTIONAL TESTING

- TEST CORE FEATURES:
- PRODUCT LISTING: ENSURE PRODUCTS ARE DISPLAYED CORRECTLY.
- FILTERS AND SEARCH: VALIDATE ACCURATE RESULTS BASED ON USER INPUTS.
- DYNAMIC ROUTING: VERIFY INDIVIDUAL PRODUCT DETAIL PAGES LOAD CORRECTLY

ERROR HANDLING

IMPLEMENT PROPER ERROR MESSAGES FOR:

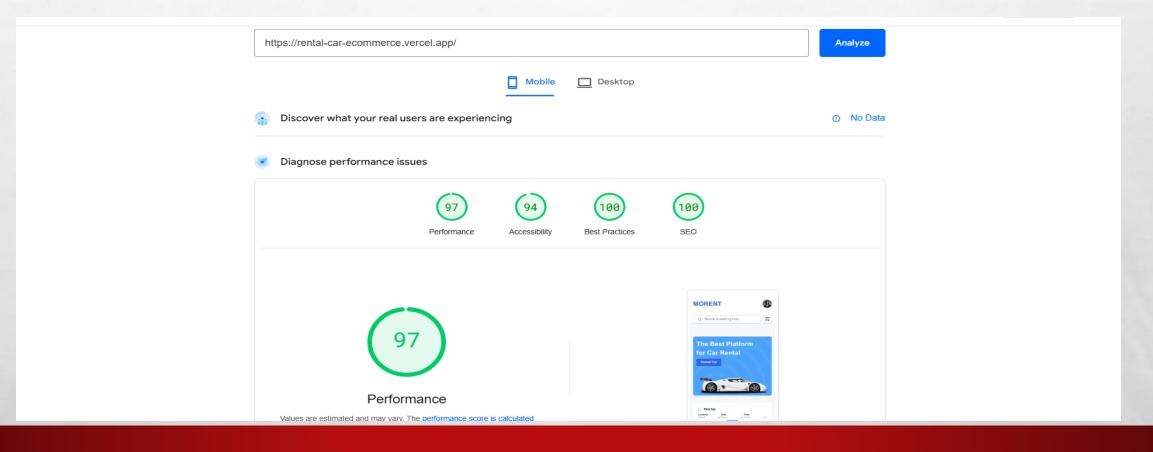
NETWORK FAILURES.

IT WILL RETURN "FAILED TO FETCH CAR DATA.
PLEASE TRY AGAIN"

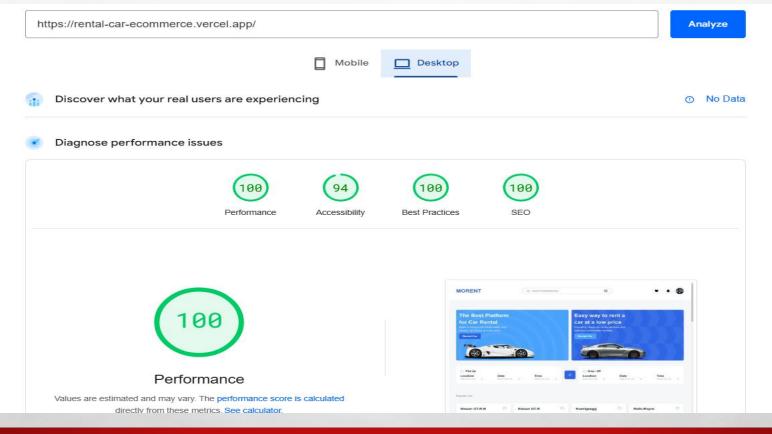
NETWORK SLOW.IT WILL RETURN "LOADING CARS..."

```
// Fetch cars from Sanity
       useEffect(() => {
         async function fetchCars() {
             const query = `*[_type == "car"]{
               name,
               slug,
               type->{type},
               pricePerDay,
               seatingCapacity,
               fuelCapacity,
               transmission,
               image
             }`;
             const data = await client.fetch<Car[]>(query);
             setCars(data); // Update state with fetched data
            catch (error) {
             console.error("Error fetching cars:", error);
             setError("Failed to fetch car data. Please try again later."); // Set error message
             setLoading(false); // Set loading to false after fetching (whether successful or not)
52
         fetchCars();
```

PERFORMANCE TESTING ON MOBILE



PERFORMANCE TESTING ON DESKTOP

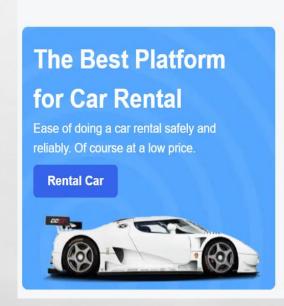


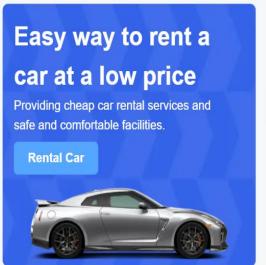
CROSS-BROWSER AND DEVICE TESTING

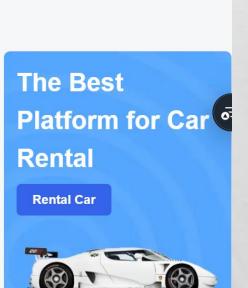
Q Search something here

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WEBSITE IS FULLY RESPONSIVE ON ALL SCREENS







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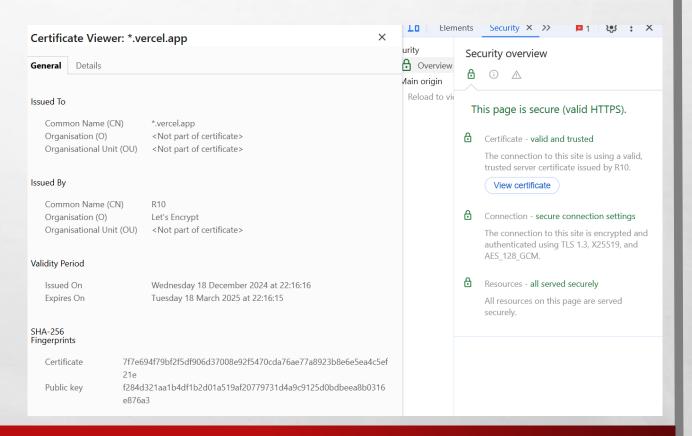
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Q Search something |

SECURITY TESTING

USING HTTPS FOR SECURE COMMUNICATION IN MY WEBSITE

 IMPLEMENTING HTTPS (HYPERTEXT TRANSFER PROTOCOL SECURE) ON MY WEBSITE ENSURES SECURE COMMUNICATION BETWEEN THE USER'S BROWSER AND THE SERVER BY ENCRYPTING DATA. THIS HELPS PROTECT SENSITIVE INFORMATION SUCH AS USER CREDENTIALS



AVOID EXPOSING SENSITIVE API KEYS

Avoiding Exposure of Sensitive API Keys in My Website

To protect my website from security vulnerabilities, it is crucial to avoid exposing sensitive API keys, such as those used for payment gateways (e.g., Stripe), database connections, or third-party services. Exposing these keys can lead to unauthorized access, data breaches, and financial loss.

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Best Practices to Prevent API Key Exposure:

1. Use Environment Variables:

Store API keys securely in .env files instead of hardcoding them in the codebase.

2. RESTRICT KEY USAGE:

Use API key restrictions based on IP addresses, domain or specific services

3. VERSION CONTROL SAFETY:

Use API key restrictions based on IP addresses, domain or specific services

DOCUMENTATION TEST CASES EXECUTED AND THEIR RESULTS

1 Test Case	Test Case Description	Test Steps Open product page > Verify	Expected Result	Actual Result	Status	Severity Le Remarks	
	Validate product listing						
2 TC001	page	products	Products displayed correctly	Products displayed correctly	Passed	Medium	No issues found
				Error message shown if data not			
3 TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	fetched	Passed	Medium	Handled graceful
		Step by step click on different					
4 TC003	Dynamic pages	cars	Dynamic pages working perfectly	Dynamic pages working perfectly	Passed	High	Works as expecte
	Ensure responsiveness on	Resize browser window >		Responsive layout working as			
5 TC004	mobile	Check layout	Layout adjusts properly to screen size	intended	Passed	Medium	Test successful
		Step by step click on different		Navigation links working			
6 TC005	Navigation Test	Nav links	Navigation links working perfectly	perfectly	Passed	Medium	Test successful
7 TC006	API Test	Use Postman	Data fetch successfully 200 OK	Data fetch successfully 200 OK	Passed	Medium	Works as expecte
8							
9							
10							