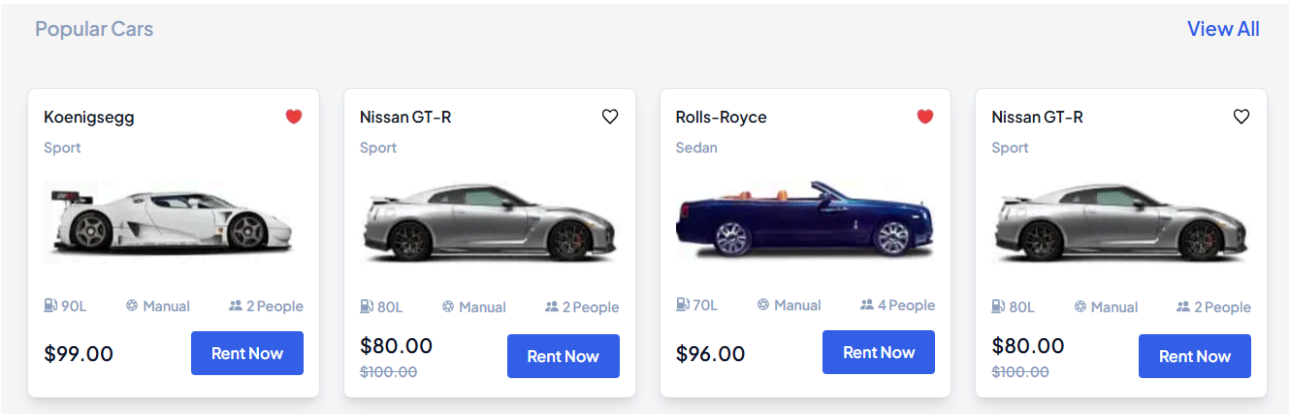
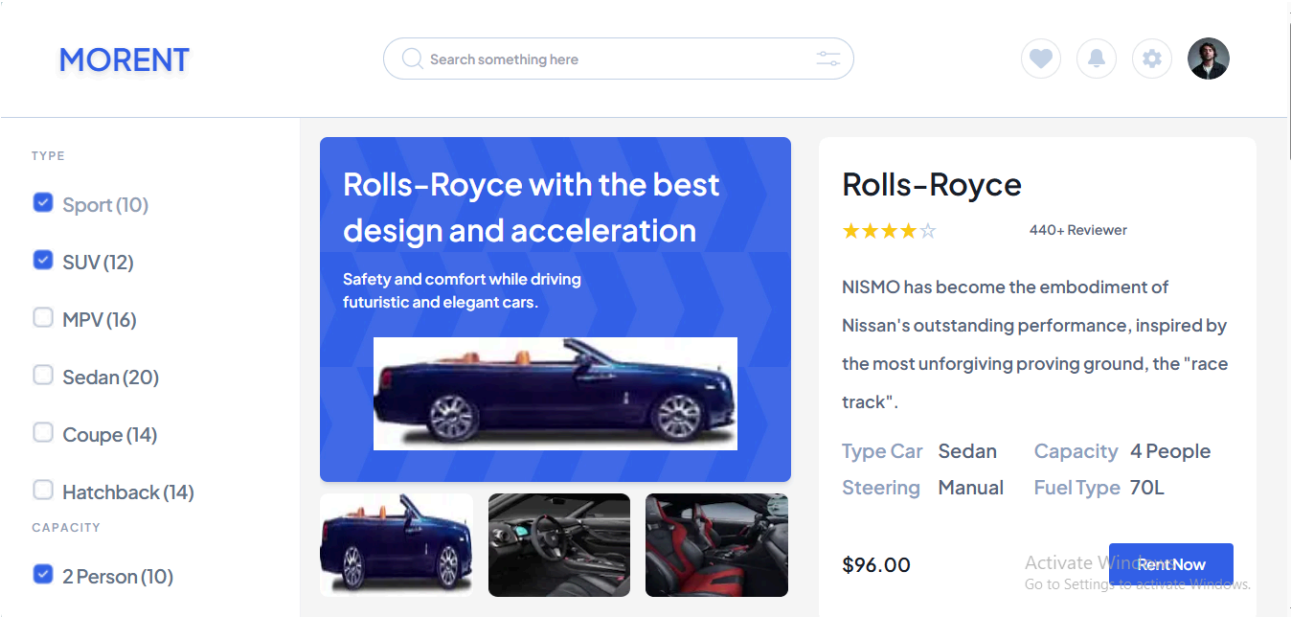
"Marketplace Technical Foundation - [Car-Rental Website]"

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

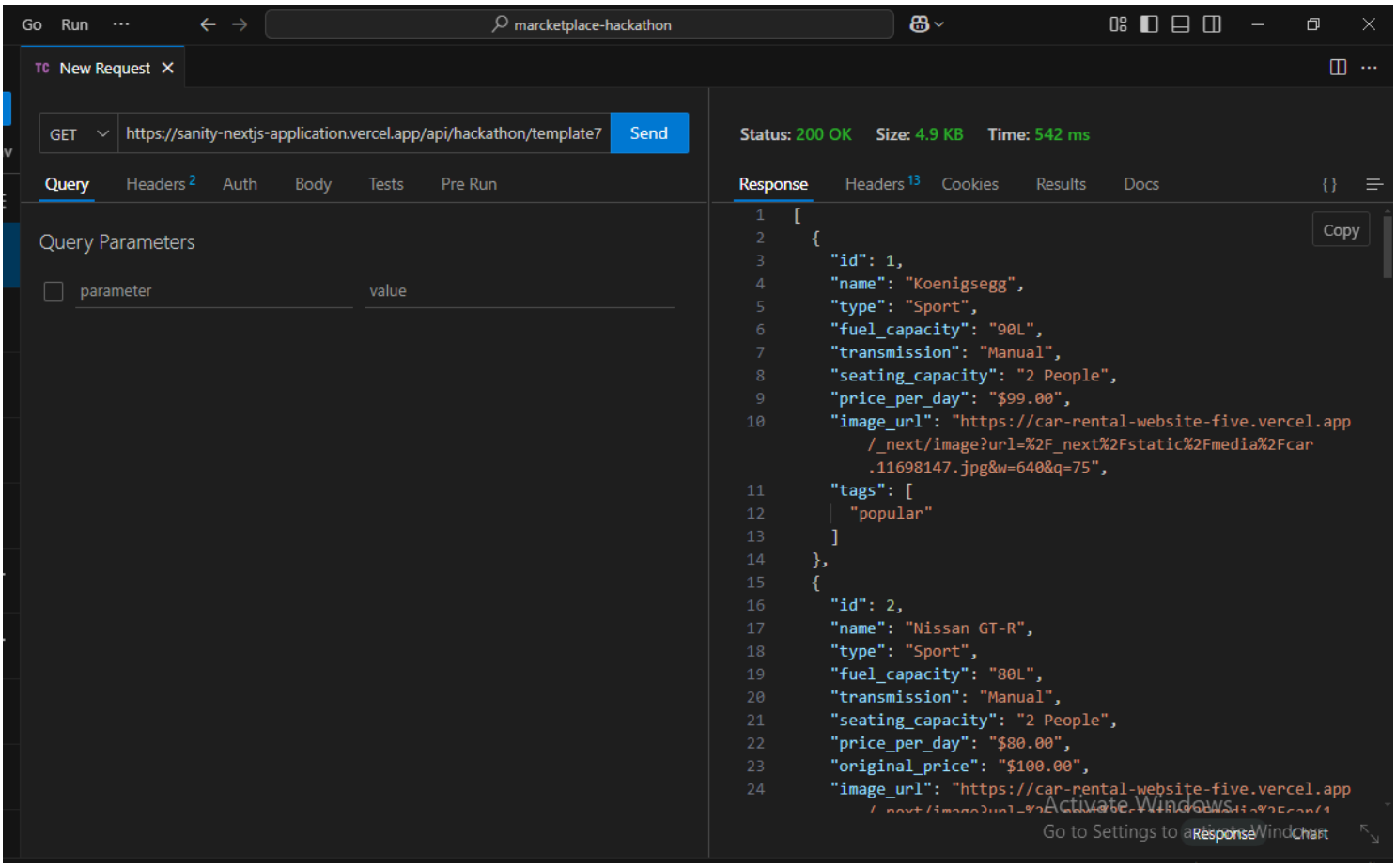
Step 1: Functional Testing

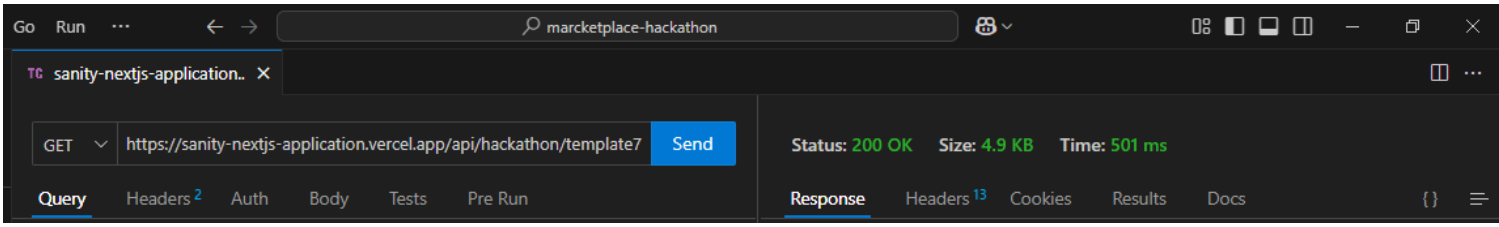
- **Objective:** Ensure that cars are dynamically displayed and API data integration works seamlessly.





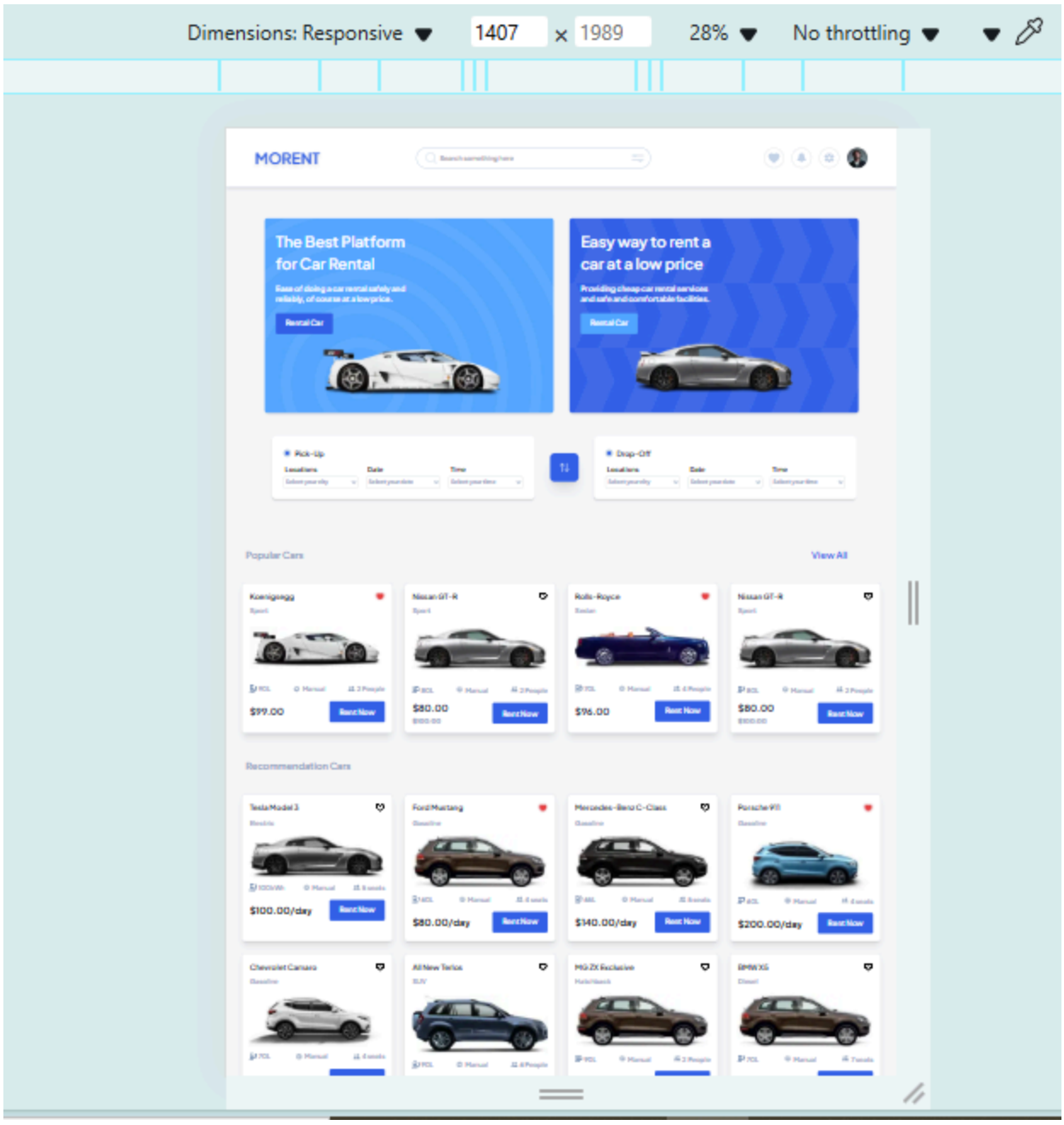
- **Result:** All cars are being dynamically fetched from the API. Their details, including name, price, specifications, and availability, are displayed correctly. No issues were found in the data rendering or functionality.



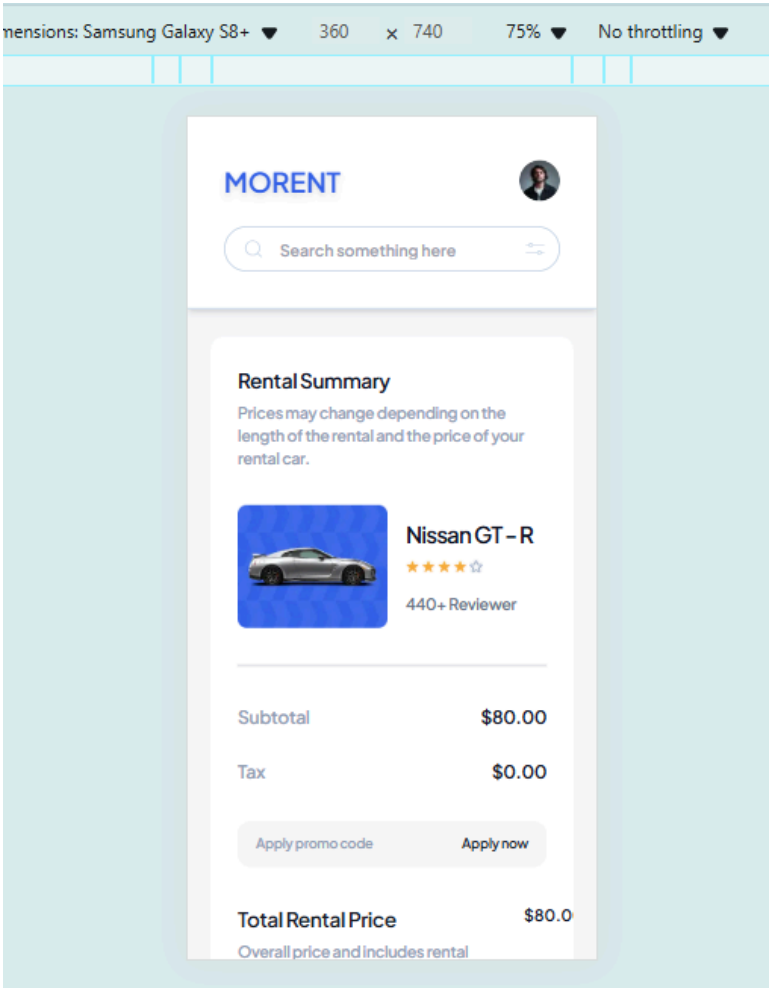


Step 2: Responsiveness Testing :

- **Objective:** Verify that the website is fully responsive across all screen sizes and devices.



- **Result:** The website adapts perfectly to various screen sizes, including mobile, tablet, and desktop. All UI components, including navigation, car listings, and forms, are responsive and maintain usability without any visual distortions.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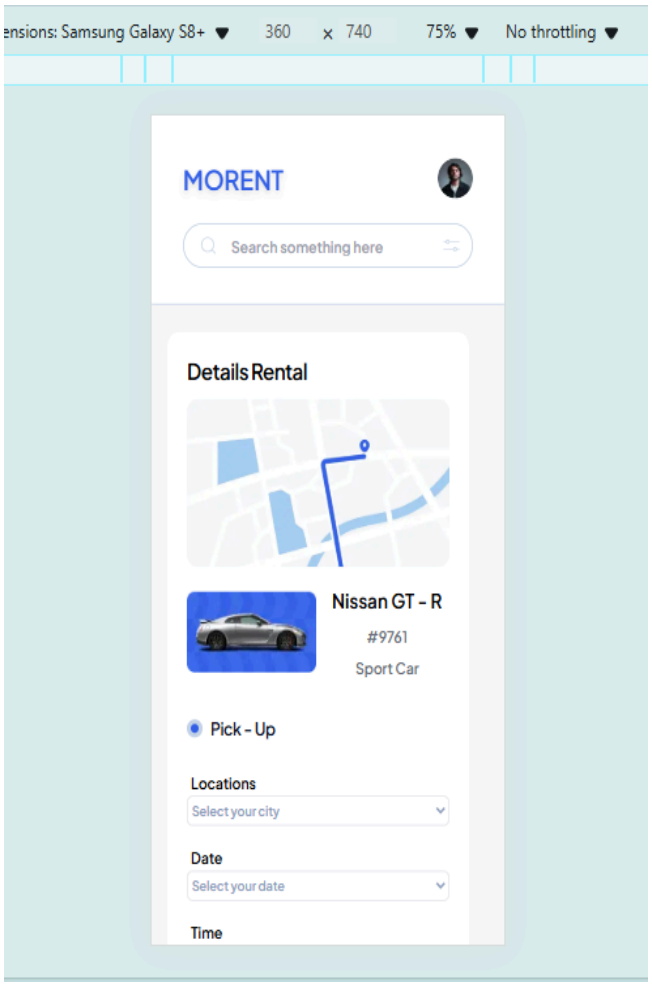
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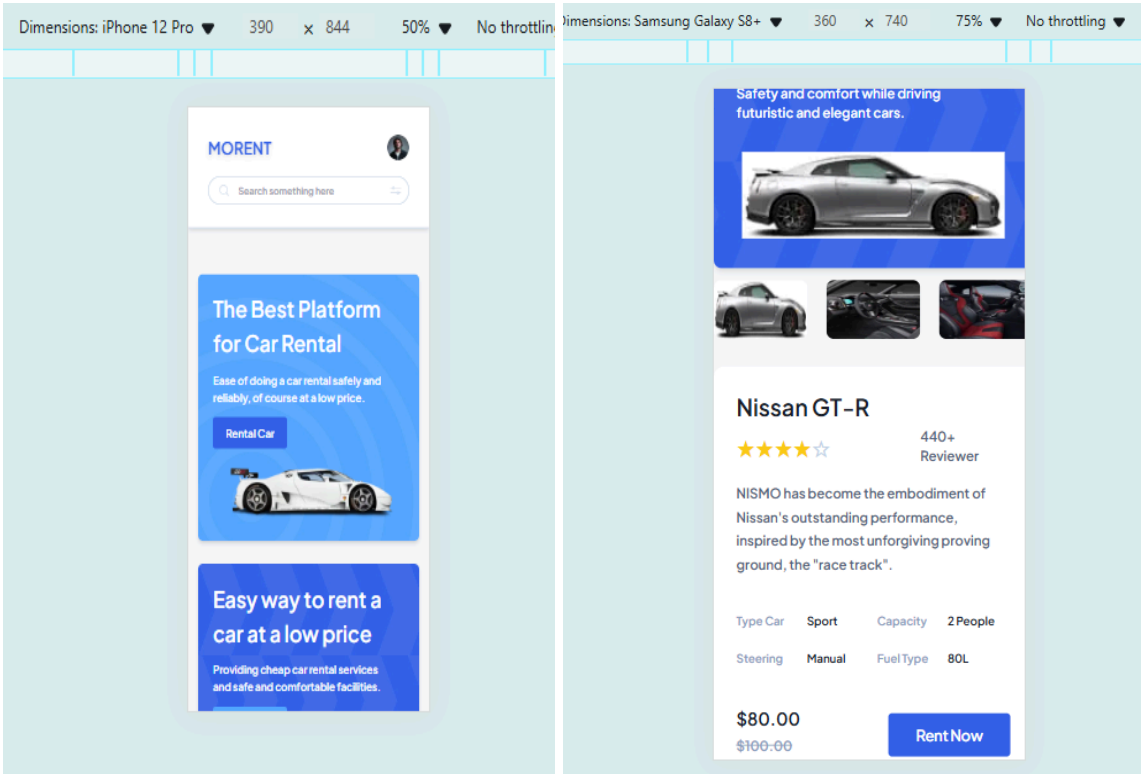


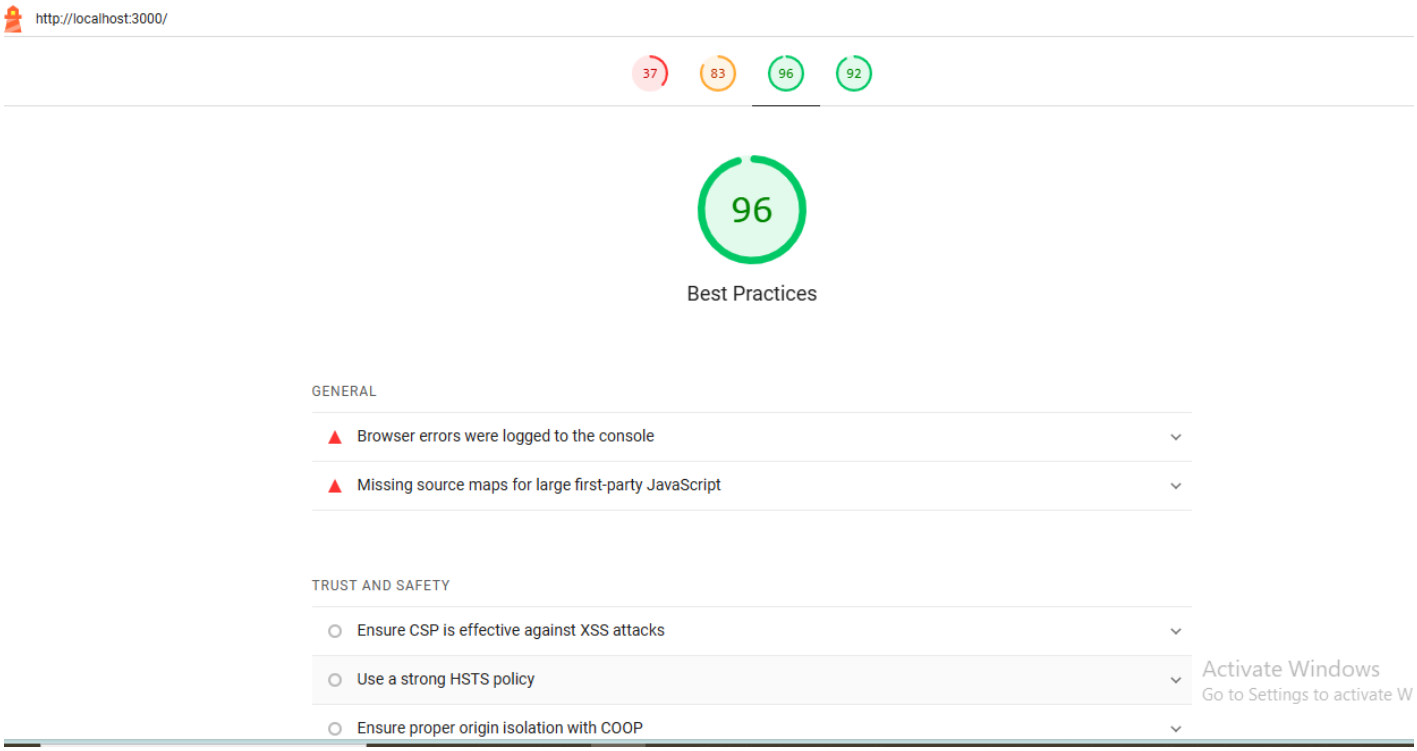
Step 2: Performance Testing :

Performance testing was conducted on the project hosted locally on `http://localhost:3000/`. The primary goal of this testing was to ensure that the application performs optimally under various conditions, including load times, responsiveness, and overall user experience.

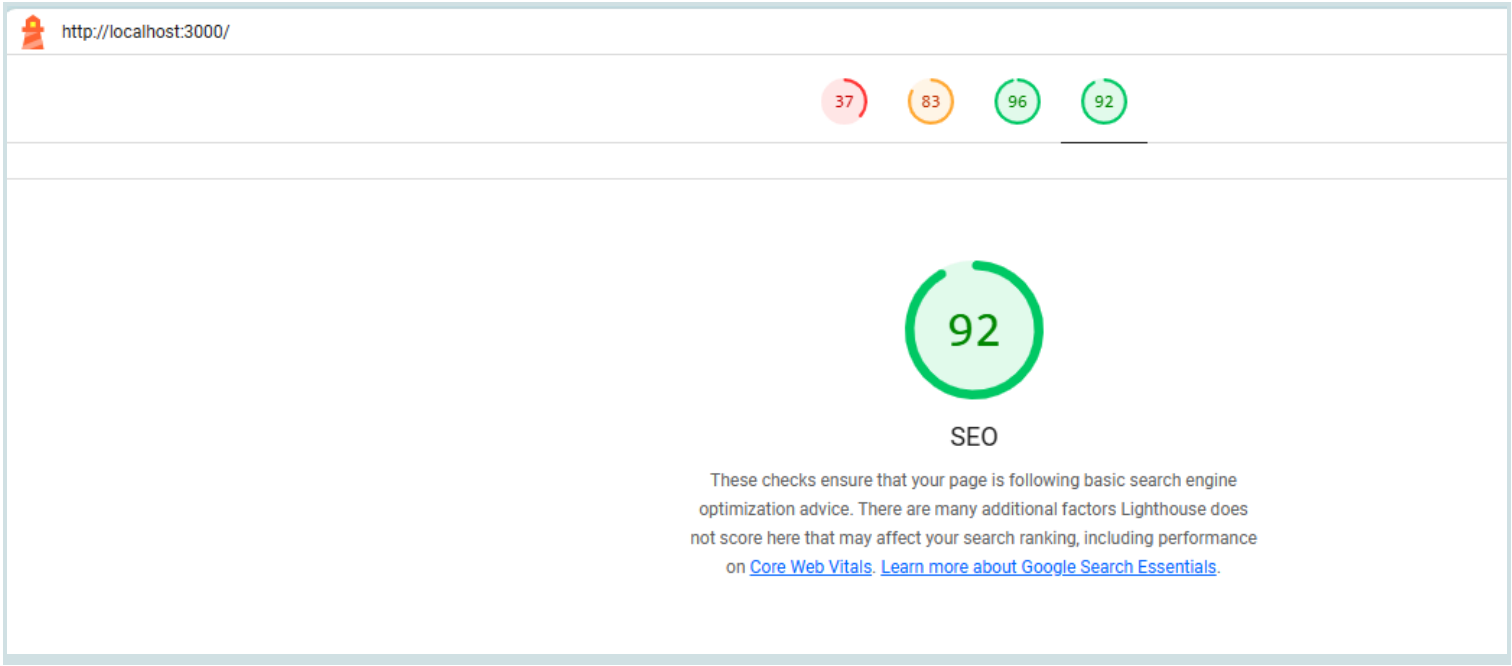
Tools Used

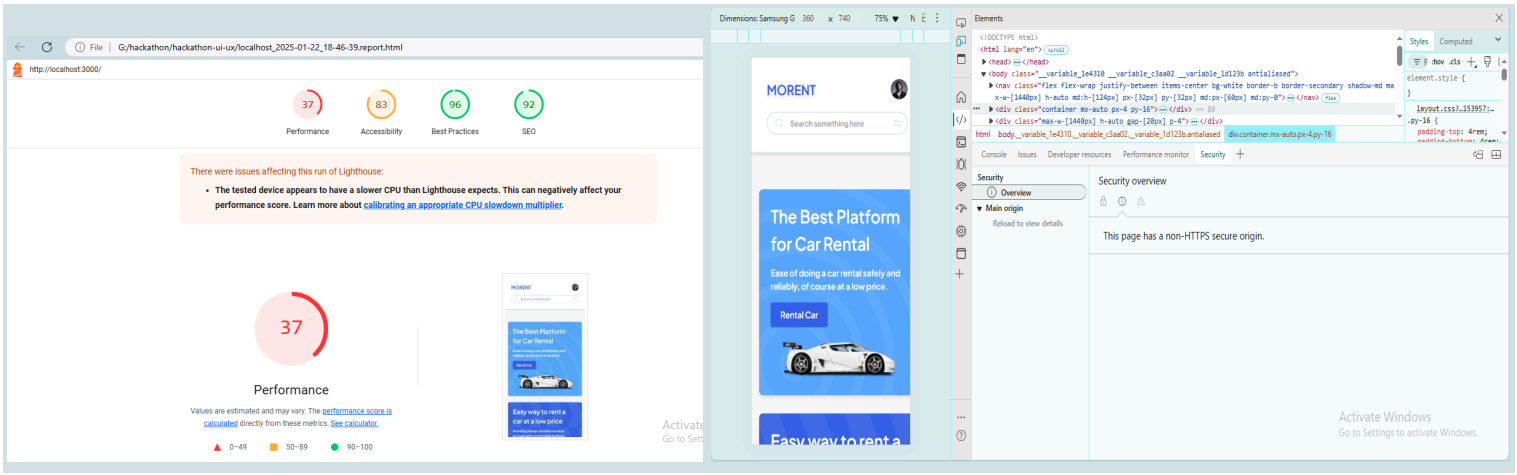
- **Lighthouse** (Integrated in Microsoft Edge and Chrome DevTools)
- **Browser DevTools** for network and performance insights
- **CLI-based Lighthouse** for automated testing

Best Practices Identified In LightHouse :

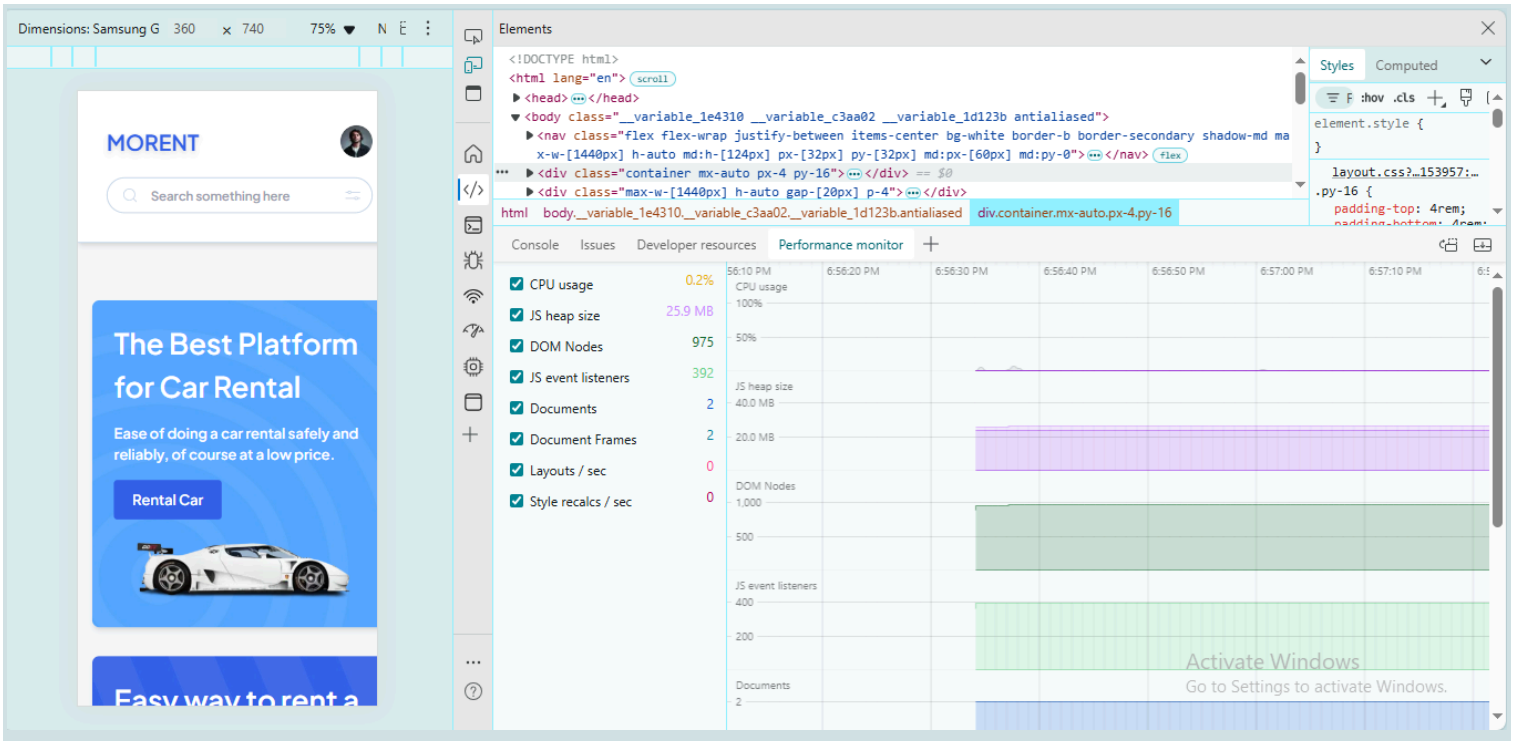


SEO Enhancements:





Performance Monitor :



Conclusion :

The performance testing highlighted key areas for improvement and allowed us to implement optimizations that significantly enhanced the user experience and SEO rankings.