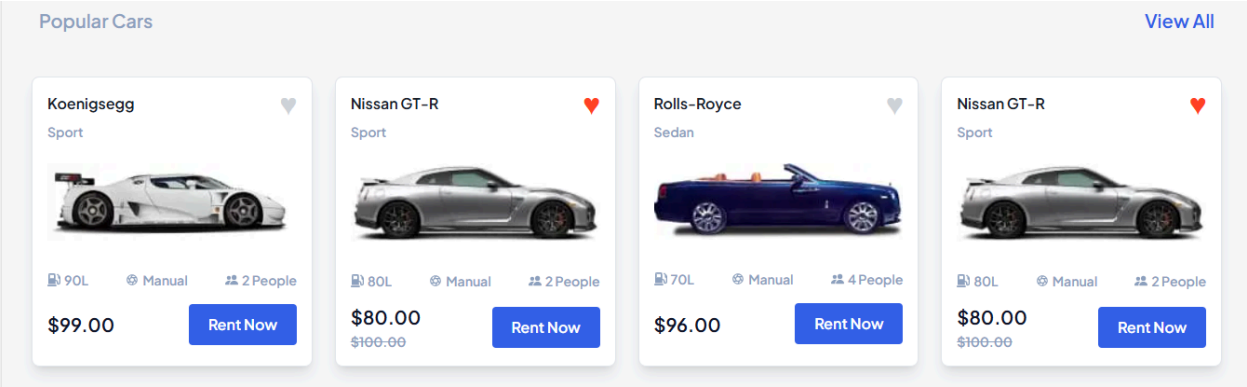
"Marketplace Technical Foundation - [Car-Rental Website]"

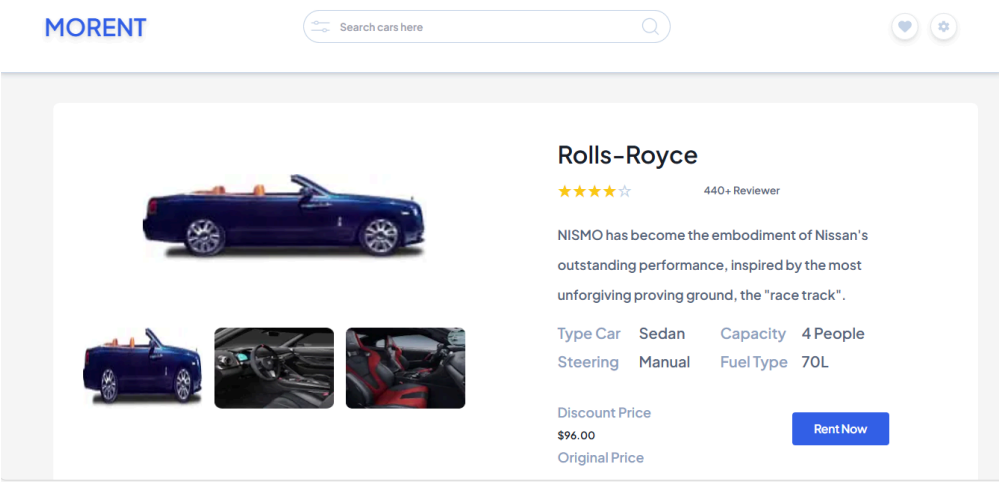
DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

Step 1: Functional Testing

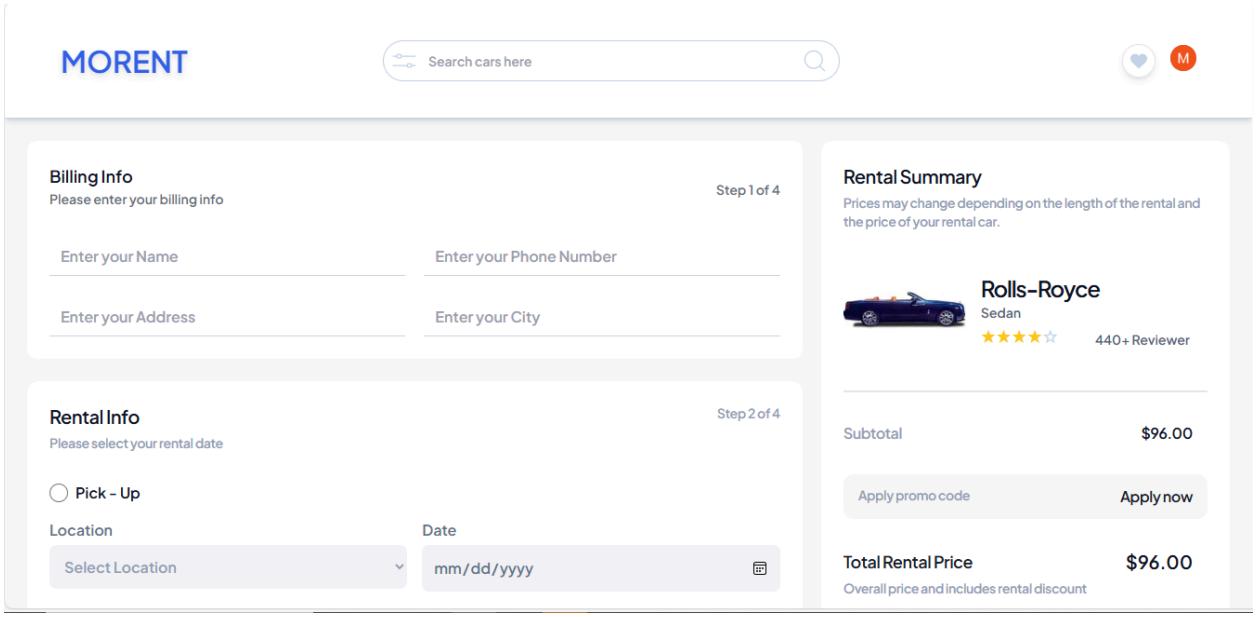
Objective: Enhance user experience by providing easy access to high-demand cars.



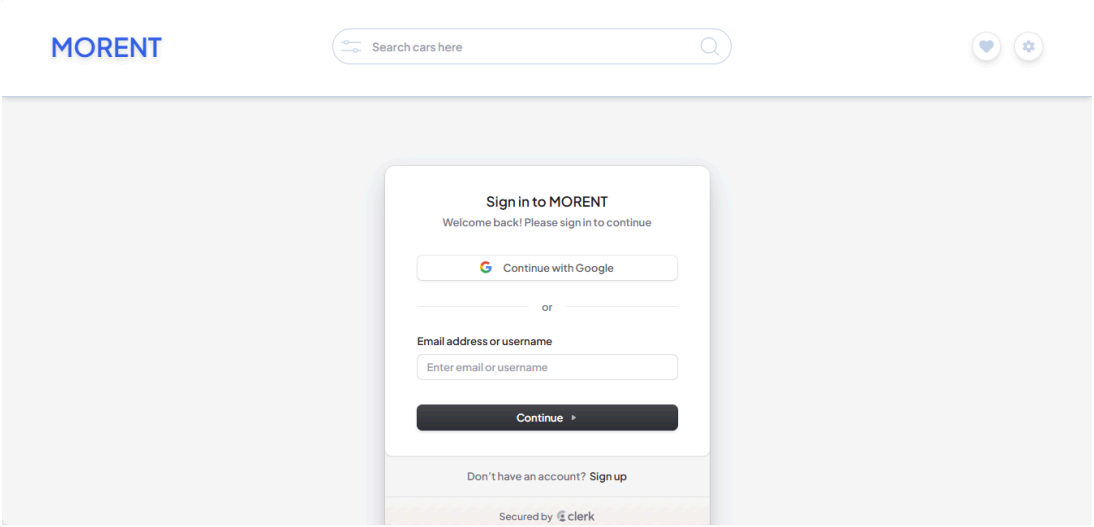
Ensure that cars are dynamically displayed and API data integration works seamlessly.

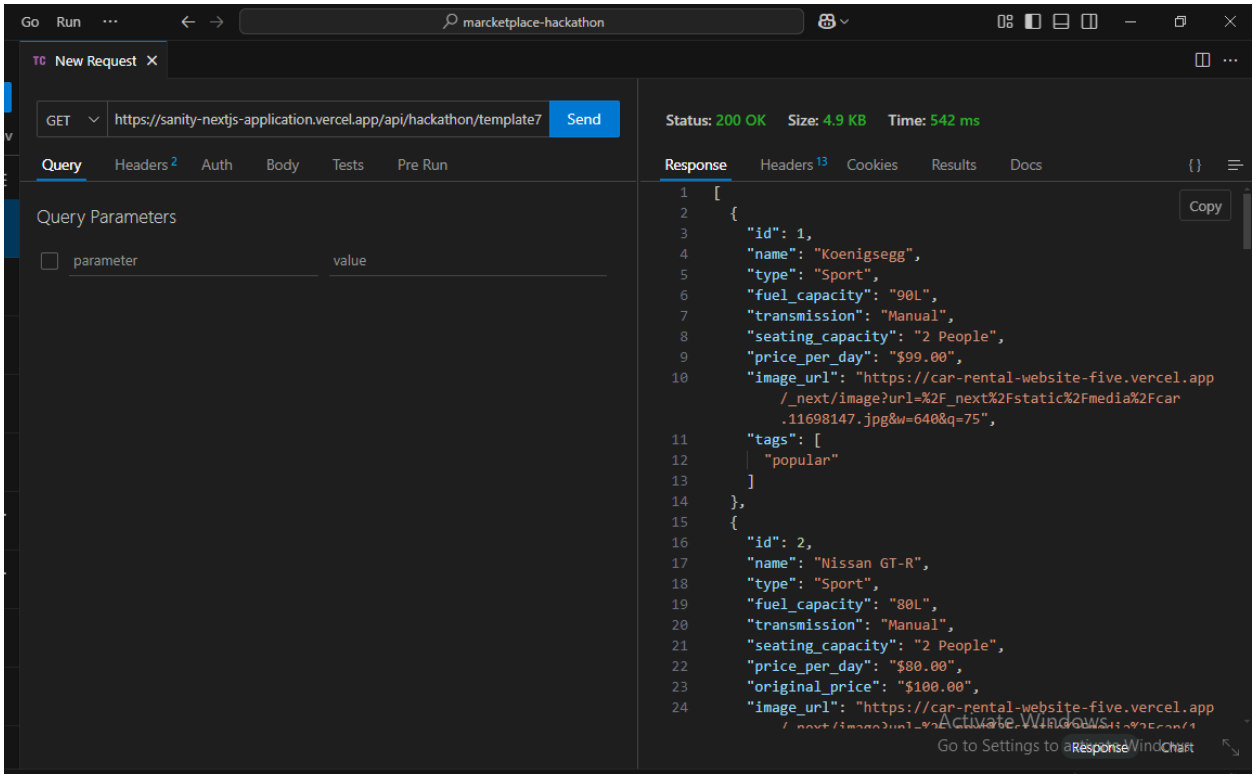


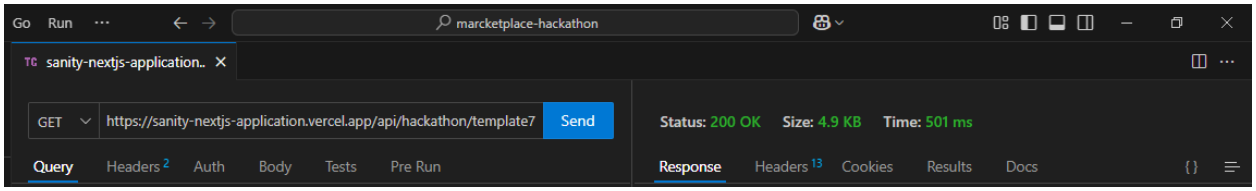
Payment Page: will fetch the car data dynamically from the backend (sanity) and display it to the user. This process ensures that the car options on the page are always up to date and reflect the latest available cars for booking.



- **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.







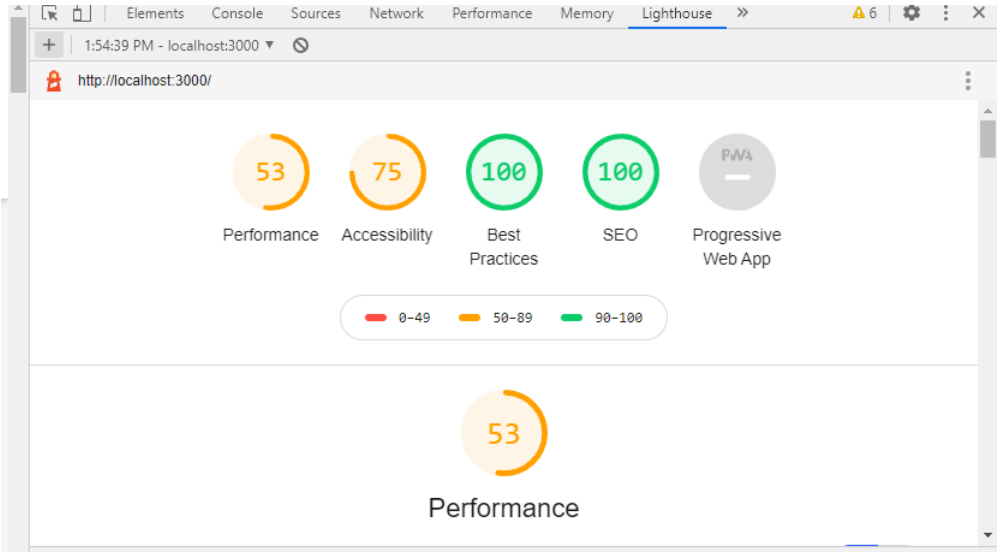
Step 2: Performance Testing :

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 :



Conclusion :

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