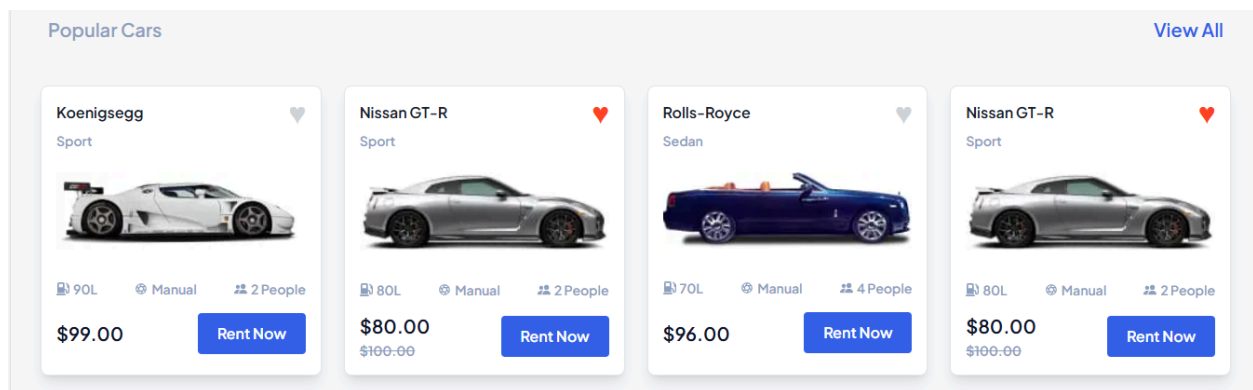


# "Marketplace Technical Foundation - [Car-Rental Website]"

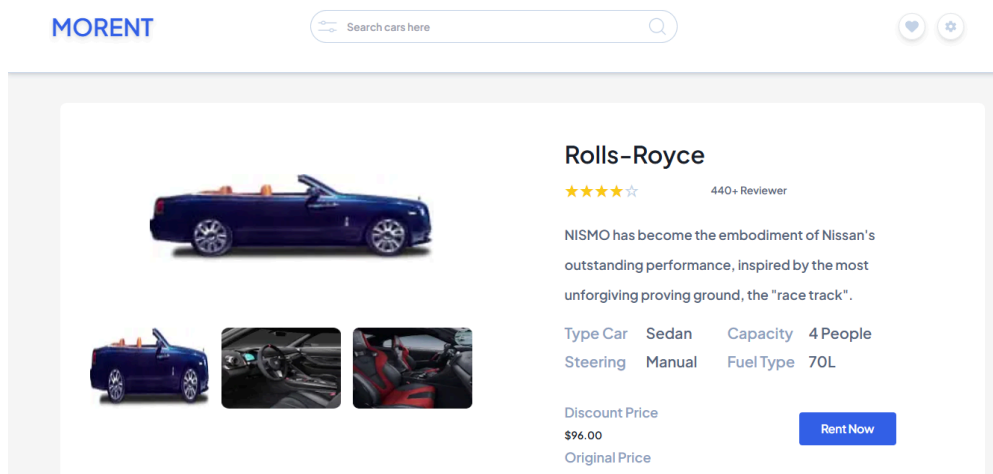
## DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

### 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.

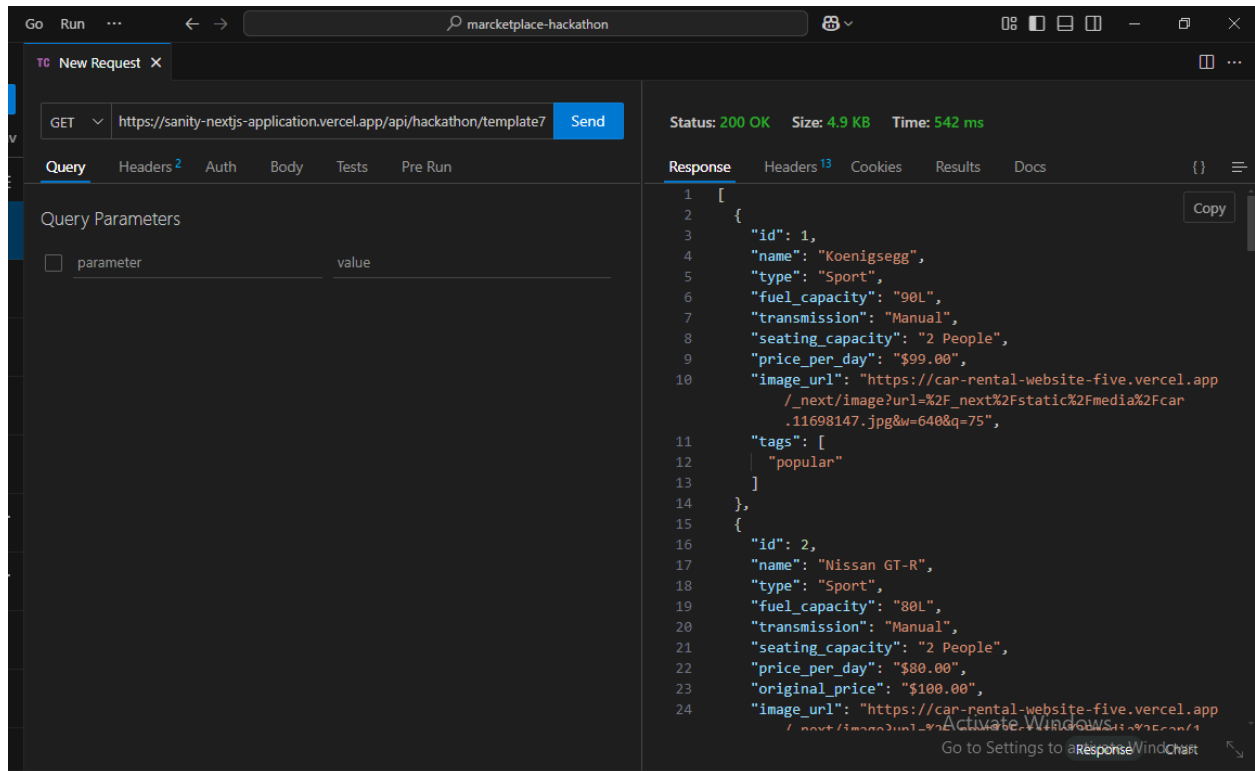


**Payment Page:** will fetch the car data dynamically from the backend (sanity) and display it to the user. This process ensures that the car options on the page are always up to date and reflect the latest available cars for booking.

The screenshot shows the 'Billing Info' section of the MORENT car rental booking process, labeled 'Step 1 of 4'. The header includes the MORENT logo, a search bar with the placeholder 'Search cars here', and user icons (heart and 'M'). The main form area is divided into two columns. The left column contains four input fields: 'Enter your Name', 'Enter your Phone Number', 'Enter your Address', and 'Enter your City'. The right column, titled 'Rental Summary', shows a blue Rolls-Royce Sedan with a 4.5-star rating from 440+ reviewers. Below this, the 'Subtotal' is \$96.00, and there is a button to 'Apply promo code'. The 'Total Rental Price' is also \$96.00, with a note that it includes a rental discount. At the bottom right, there is an 'Apply now' button.

- **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.

The screenshot shows the 'Sign in to MORENT' page. The header is identical to the previous page. The main content is a white sign-in modal. It starts with the title 'Sign in to MORENT' and the subtitle 'Welcome back! Please sign in to continue'. There is a 'Continue with Google' button with the Google logo. Below this is an 'or' separator. Then, there is a label 'Email address or username' and an input field with the placeholder 'Enter email or username'. A dark 'Continue' button is at the bottom of the modal. Below the modal, there is a link 'Don't have an account? Sign up'. At the very bottom, it says 'Secured by clerk' with the Clerk logo.



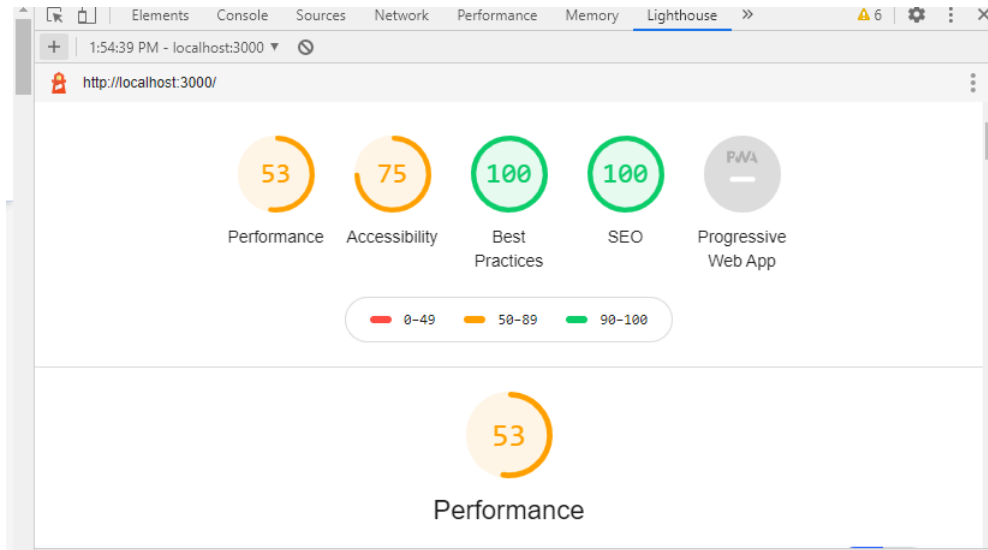
## Step 2: Performance Testing :

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.