




DAY 4 HAKATHON MORENT RENTAL CAR

PRODUCT DISPLAY PAGE WITH DYNAMIC DATA

Popular Car


Nissan GT-R-N



80L Manual 2 People

\$80.00/day Rent Now


Nissan GT-R



80L Manual 2 People

\$80.00/day Rent Now


Koenigsegg



90L Manual 2 People

\$99.00/day Rent Now

Rolls-Royce




70L Manual 4 People

\$96.00/day Rent Now

Recommendation Car


Tesla Model 3



100kWh Manual 5 seats

\$100.00/day Rent Now


BMW X5



70L Manual 7 seats

\$150.00/day Rent Now


Audi A6



50L Manual 5 seats

\$120.00/day Rent Now

Porsche 911






60L Manual 4 seats

\$200.00/day Rent Now

INDIVIDUAL PRODUCT DETAIL PAGES

MORENT







Select Car Type
Choose the car type you are interested in.

- ☐ Diesel
- ☐ Gasoline
- ☐ Sedan
- ☐ Sports
- ☐ SUV
- ☐ Hybrid
- ☐ Hatchback
- ☐ Electric

Sports car with the best design and acceleration

Safety and comfort while driving a futuristic and elegant sports car





Chevrolet

★★★★☆ 440+ Reviewer

NISMO has become the embodiment of Nissan's outstanding performance, inspired by the most unforgiving proving ground, the "race track".

Type Car	Capacity	4 seats
Steering	Manual	Gasoline
		70L

\$110.00/ days
\$100

Rent Now




Recent Car

View All

WORKING CATEGORY FILTERS


MORENT

Search something here







Select Car Type
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- ☐ Hybrid
- ☐ Hatchback
- ☐ Electric


Chevrolet Camaro 

Gasoline







 70L  Manual  4 seats

\$110.00/day [Rent Now](#)


Ford Mustang 

Gasoline







 60L  Manual  4 seats

\$80.00/day [Rent Now](#)

Mercedes-Benz C-Class 

Gasoline



 65L  Manual  5 seats

\$140.00/day [Rent Now](#)

WORKING CATEGORY SEARCHBAR

MORENT


Q audi

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Select Car Type
Choose the car type you are interested in.

☐ Diesel

☐ Gasoline

☐ Sedan

☐ Sports

☐ SUV


☐ Hybrid


☐ Hatchback


☐ Electric


Audi A6

Hybrid



 50L

 Manual

 5 seats

\$120.00/day

Rent Now

DOCUMENTATION

STEPS TAKEN TO BUILD AND INTEGRATE COMPONENTS

Setup and Configuration:

- Initialized a Next.js project and configured Tailwind CSS for styling.
- Integrated Sanity CMS to manage car data (e.g., car name, type, price, images).

2.Dynamic Routing:

- Implemented dynamic routes for car details using `generateStaticParams` to pre-render pages for each car based on its slug.
- Created a `[car]` dynamic route to display detailed information about a specific car.

3.Data Fetching:

- Used `getCars` to fetch car data from Sanity CMS.
- Implemented `useEffect` to fetch data on the client side for filtering and rendering.

4.Filtering Functionality:

- Added a sidebar with checkboxes for filtering cars by type (e.g., SUV, Sedan) and seating capacity.
- Used `useState` to manage selected filters and dynamically update the list of displayed cars.

DOCUMENTATION

CHALLENGES FACED AND SOLUTIONS IMPLEMENTED

1. Dynamic Routing Errors:

- **Challenge:** Errors occurred when accessing `car.slug.current` due to missing or undefined `slug` fields.
- **Solution:** Added conditional checks to ensure `car.slug` and `car.slug.current` exist before rendering links.

2. Client-Side vs Server-Side Rendering:

- **Challenge:** The filtering functionality required client-side interactivity, but the page was treated as a Server Component by default.
- **Solution:** Added the `"use client"` directive to mark the component as a Client Component, enabling the use of React hooks like `useState` and `useEffect`.

3. Data Fetching:

- **Challenge:** Initially used `async/await` directly in the component, which caused issues with server-side rendering.
- **Solution:** Moved data fetching logic to `useEffect` to handle it on the client side.

DOCUMENTATION

BEST PRACTICES FOLLOWED DURING DEVELOPMENT

1.Modular Component Design:

- Created reusable components (e.g., CatalogCard, Sidebar) to promote code reusability and maintainability.

2.Dynamic Routing:

- Used Next.js's generateStaticParams to pre-render dynamic routes, improving SEO and performance.

3.State Management:

- Used useState to manage filtering states and useEffect for side effects like data fetching.

4.Error Handling:

- Added conditional checks and fallback mechanisms to handle missing or undefined data gracefully
- Use try catch method or error handling during data fetching.

DOCUMENTATION

WEBSITE FUNCTIONALITIES

1.Car Catalog:

- Displays a list of cars with details like name, type, price, seating capacity, and transmission.
- Users can click on a car to view its detailed information.

2.Dynamic Car Details:

- Each car has a dedicated page with detailed information, including images, specifications, and pricing.

3.Filtering:

- Users can filter cars by type (e.g., SUV, Sedan) and seating capacity using the sidebar.

4.Responsive Design:

- The website is fully responsive, ensuring a seamless experience on desktops, tablets, and mobile devices.

5.Image Optimization:

- Car images are optimized for fast loading using Next.js's Image component.

DOCUMENTATION

WEBSITE FUNCTIONALITIES

Conclusion

The car rental website successfully integrates dynamic routing, client-side filtering, and responsive design to provide a seamless user experience. By following best practices and addressing challenges effectively, the website is both performant and user-friendly. Future enhancements could include user authentication, booking functionality, and integration with a payment gateway.