

# Day 4

## Building Dynamic Frontend Components Of

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#### **Overview**

This website is designed to streamline the car rental process with user-friendly components and secure payment options. It includes dynamic and interactive features to ensure a smooth experience for users.

#### **Features**

##### **1. Date & Time Selection**

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Users can select their desired pickup and drop-o dates and times. The component validates the input to ensure logical selections (e.g., drop-o cannot be earlier than pickup).

##### **2. Location Selection**

A dynamic location selection feature lets users choose pickup and drop-o locations. Locations are updated dynamically based on the user's preferences or availability.

##### **3. Dynamic Comments**

Users can add comments or notes related to their booking, such as special requests or preferences.

The comments are saved dynamically and tied to the user's session.

##### **4. Payment Integration**

The website integrates **Stripe** for secure and seamless payment processing.

Users can add their card details and pay directly on the website.

The system handles all payment-related errors and ensures security compliance.

##### **5. Add to Cart**

- Users can add car rentals to a cart before proceeding to checkout.
- The cart dynamically updates with the total cost based on selected dates, locations, and any additional services.

## **Key Technologies**

- **Frontend:** *Next.js*
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- **Payment Gateway:** Stripe API.

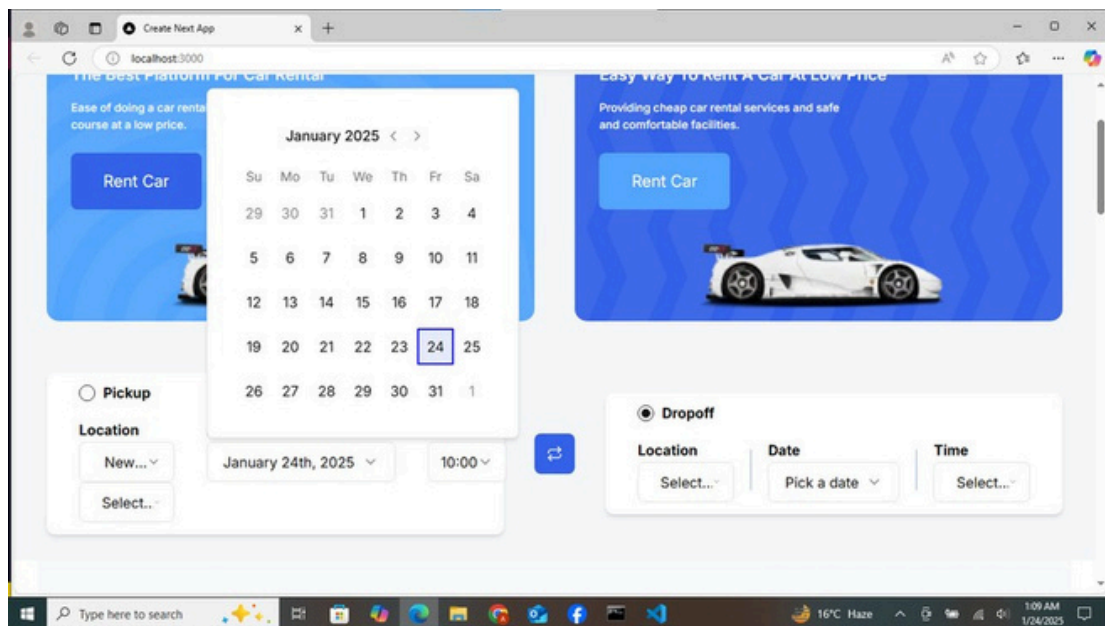
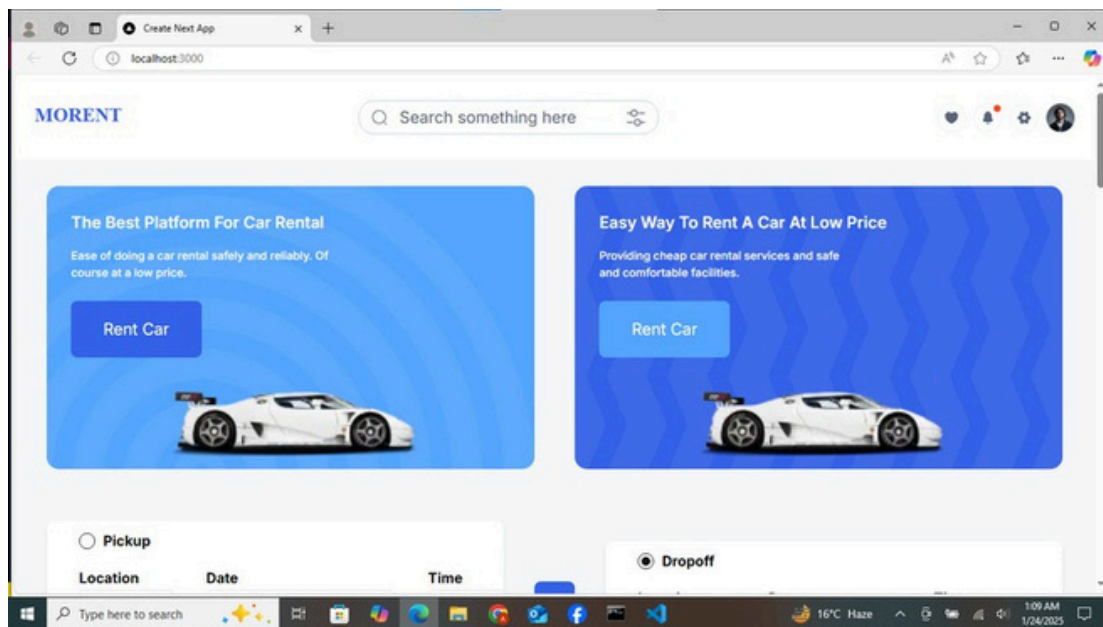
## **Dynamic Features**

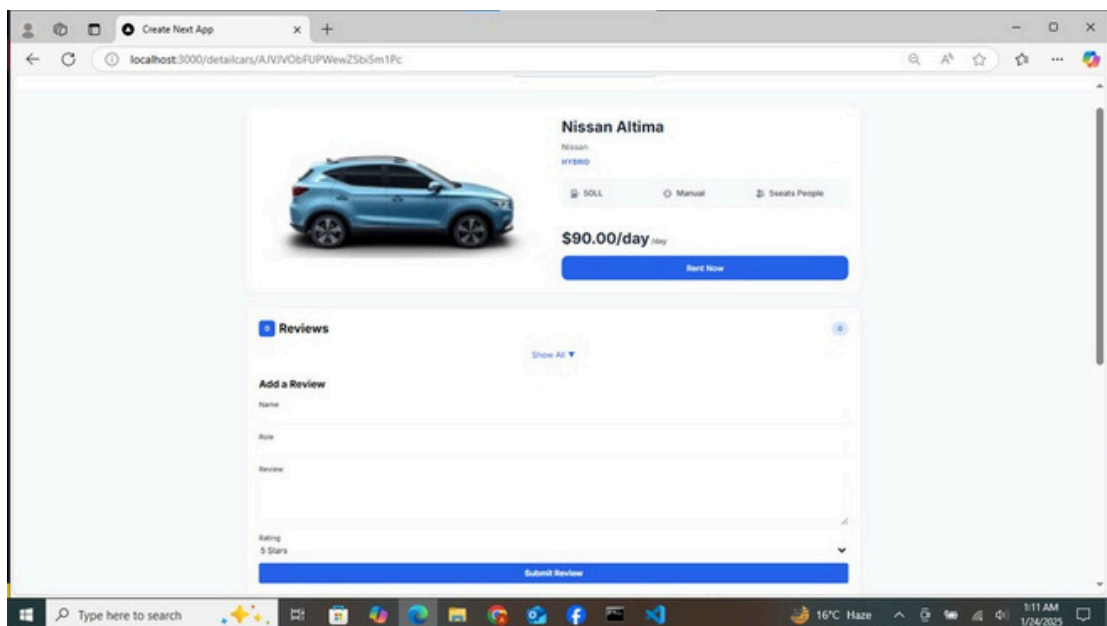
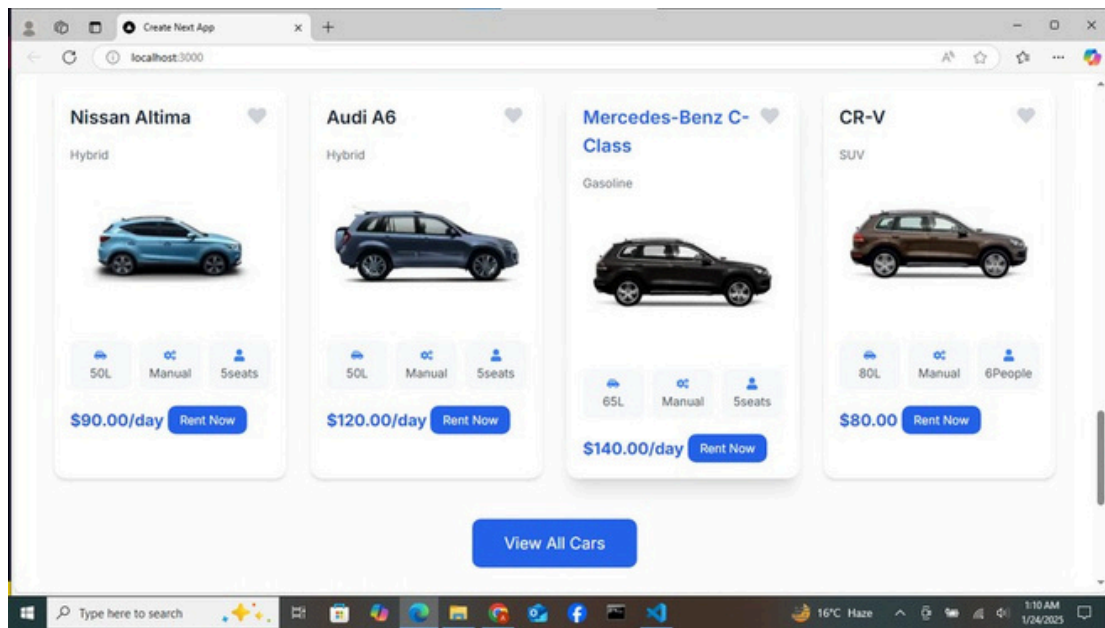
- **Real-Time Updates:** Any changes in the date, time, location, or cart are reflected immediately without requiring a page refresh.
- **Error Handling:** Proper messages for invalid inputs (e.g., incorrect dates or payment errors).

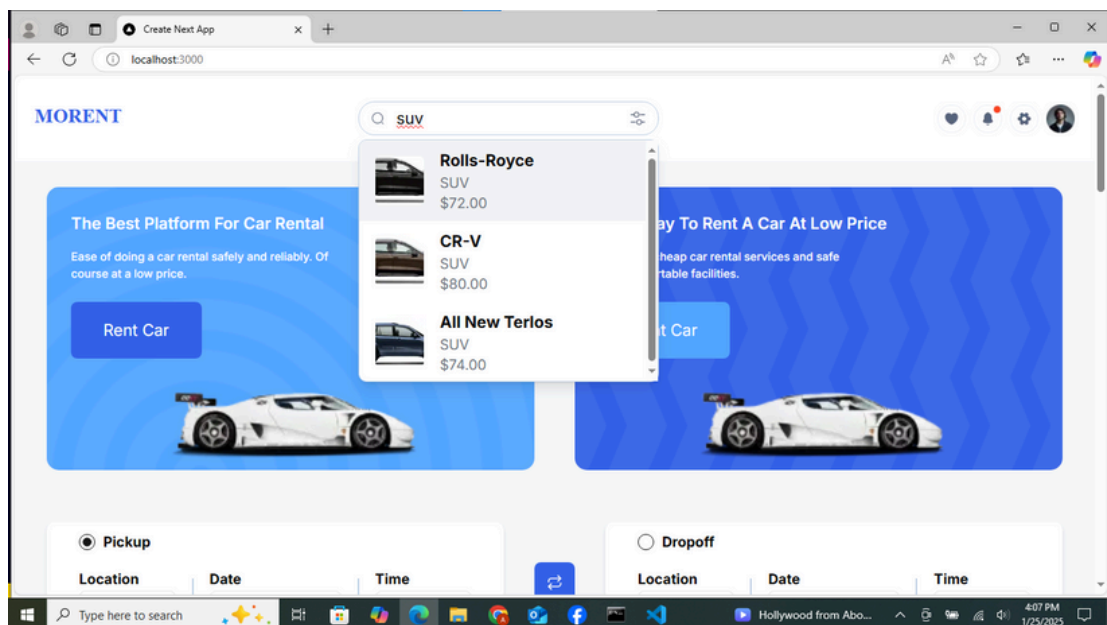
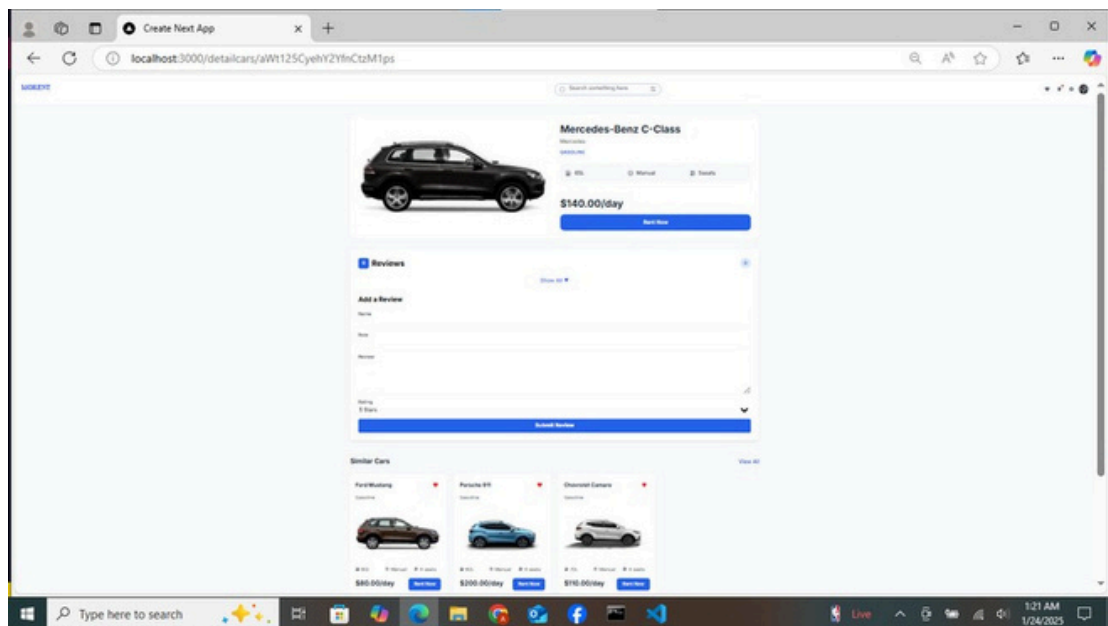
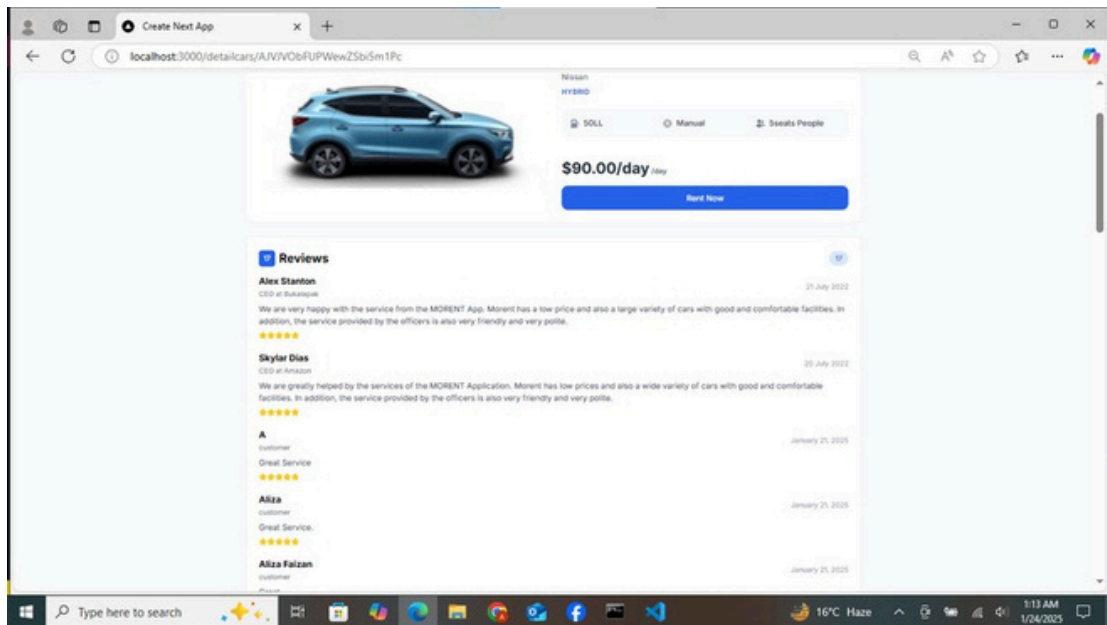
## **Future Enhancements**

- **User Authentication:** Add login and signup functionality to save user preferences.
- **Reviews System:** Allow users to leave feedback about their rental experience.
- **Mobile Optimization:** Ensure a smooth user experience on mobile devices.

Let me know if you'd like to expand on any section or add more details!







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