

Technical Requirements for Your Car Rental Marketplace

Frontend Requirements

- **User Interface:**
 - Design a **user-friendly interface** for seamless navigation across all pages.
 - Use a **responsive design** to ensure compatibility with mobile, tablet, and desktop devices.
- **Essential Pages:**
 - **Home:** Display featured cars, promotional offers, and search functionality.
 - **Car Listing:** Showcase available cars with filters for location, price range, and car type.
 - **Car Details:** Detailed information about a selected car, including rental options, availability, and pricing.
 - **Cart:** Overview of selected rentals, allowing users to adjust quantities and view the total cost.
 - **Checkout:** A secure page for entering personal and payment information.
 - **Order Confirmation:** Confirmation of rental order with rental duration and total cost.

Sanity CMS as Back-end

- **Content Management:**
 - Use **Sanity CMS** to store and manage product (car) details, customer information, and order data.
 - Structure schemas to include rental-specific fields:
 - Car details: `make`, `model`, `rentalPrice`, `availability`, and `conditionStatus`.
 - Customer data: `name`, `email`, `rentalHistory`, and `preferences`.
 - Order records: `orderId`, `carId`, `rentalDuration`, `pickupLocation`, and `returnLocation`.
- **Backend Workflow:**
 - Sanity CMS will act as a database for:
 - Storing car listings and details.
 - Recording rental bookings and their statuses.
 - Managing dynamic content updates, such as pricing and promotions.

Third-Party APIs Which Can be Used

- **Shipment Tracking:**

- Use APIs to provide **real-time updates** for the pickup and return process.
- Display estimated delivery and return times to users.

- **Payment Gateway:**

- Integrate secure and reliable payment services such as **Stripe, PayPal or Cryptocurrency**.
- Ensure compatibility with multiple currencies and provide instant payment confirmation.

- **Geolocation Services:**

- Implement APIs like **Google Maps** for selecting pickup and drop-off locations.
- Provide users with estimated distances and delivery charges based on locations.

- **Notification Service:**

- Use APIs for **SMS/Email** notifications to inform users about:
 - Booking confirmations.
 - Rental status updates.
 - Reminders for upcoming returns or overdue rentals.