

# Marketplace Technical Foundation For “Morent Car Rentals”

## 1. Technical Plan Aligned with Business Goals:

### Frontend Requirements:

- Next.js Framework with Typescript, Tailwind.
- Responsive design for mobile and desktop.
- Pages:
  - Home:** Showcase popular cars, offers, and categories.
  - Car Listings:** Display cars with filter options (price, model, etc.).
  - Car Details:** Detailed view of each car.
  - Cart:** View selected cars.
  - Checkout:** Payment and rental details.
  - Order Confirmation:** Booking details and confirmation.

### Backend Requirements using Sanity CMS:

- **Sanity CMS:** To manage car data, user details, and bookings.
- **Schemas:** Car (name, price, seats), User (name, email), Booking (car, user, rental duration, total cost).

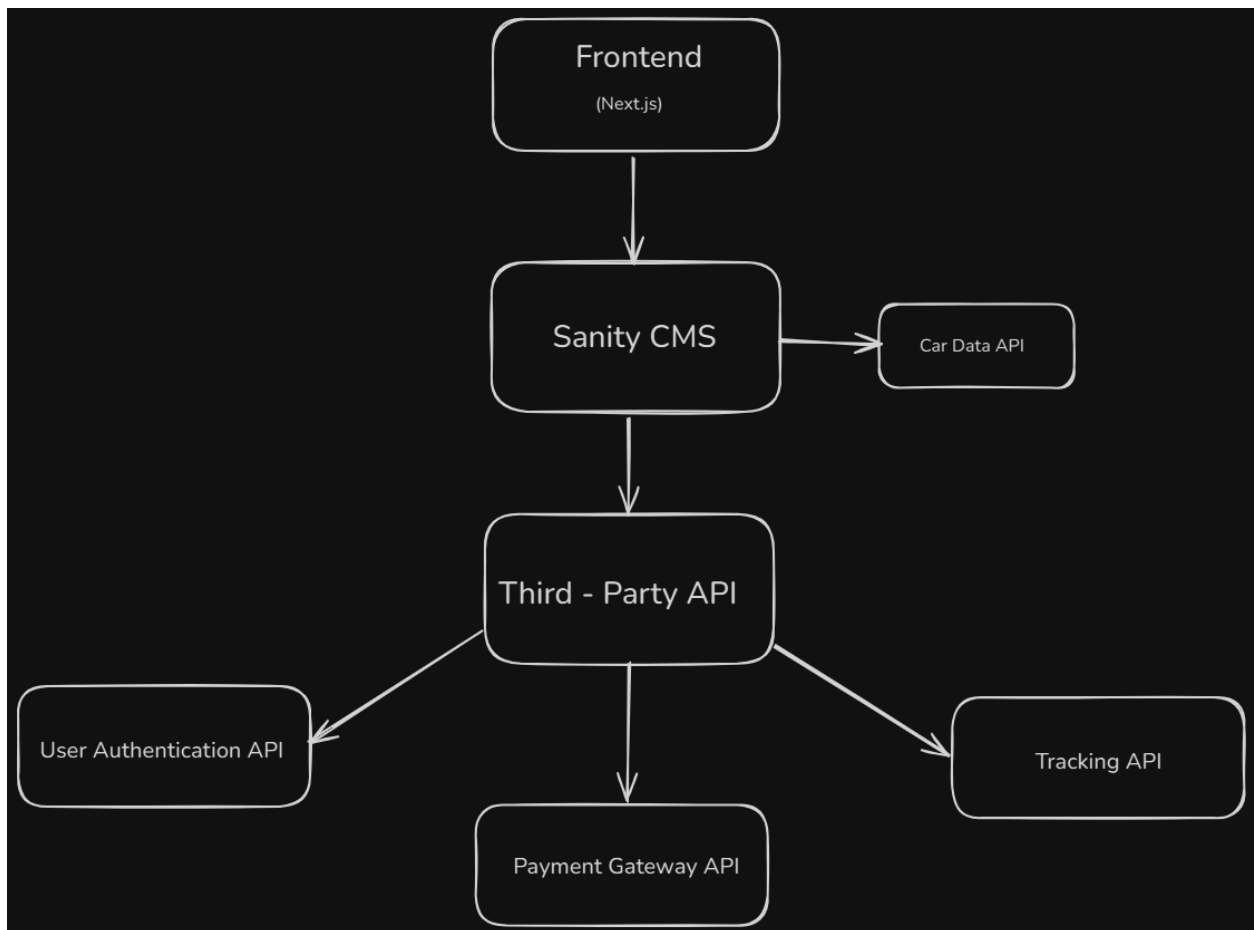
### Third-Party APIs:

- **Shipment Tracking API:** For real-time car status.
- **Payment Gateway API:** Payment processing.

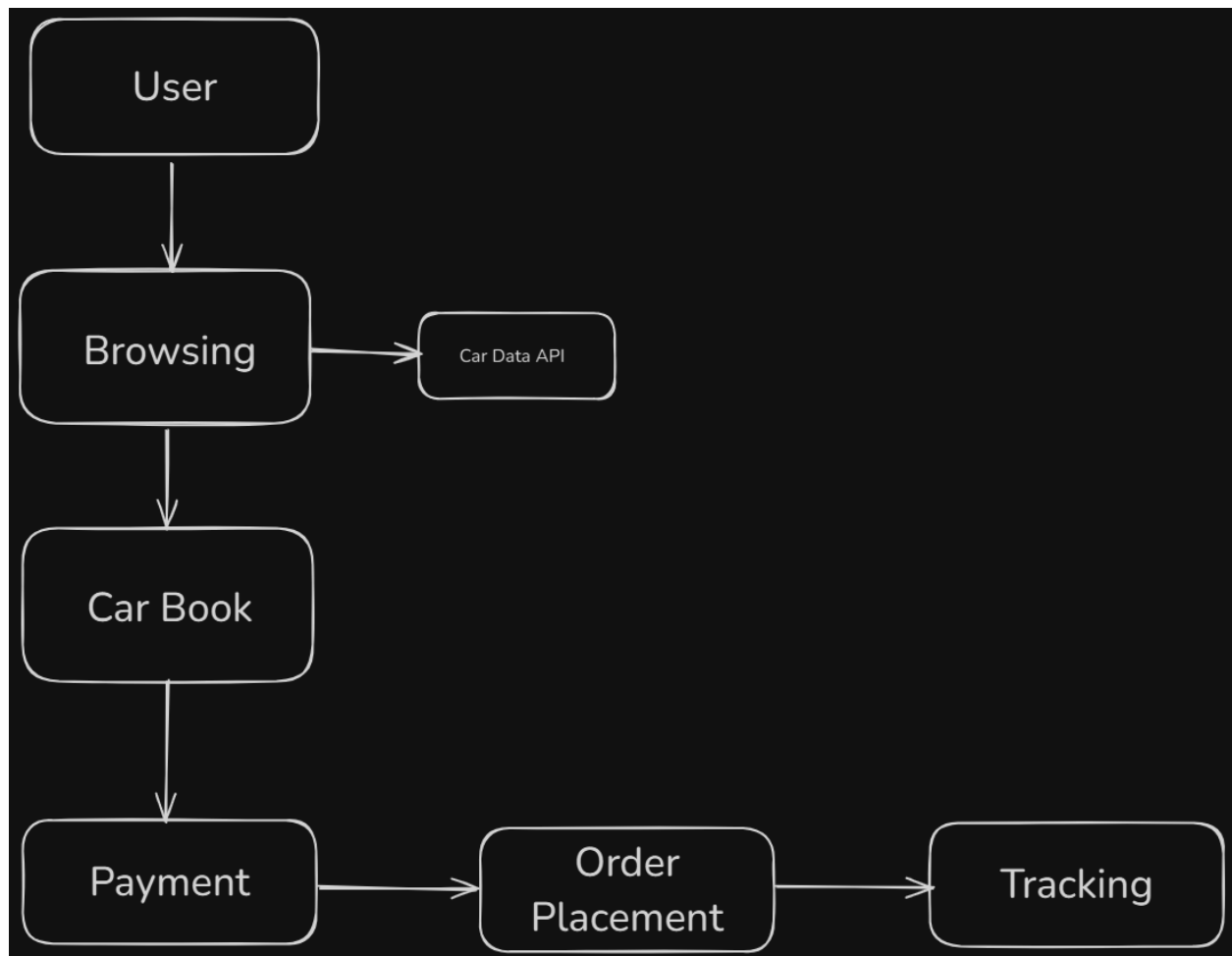
**Availability API:** Real-time car availability.

## 2. System Architecture Overview:

### Architecture Diagram:



### 3. Key Workflows:



## 4. API Endpoints:

Endpoint	Method	Purpose	Response
/cars	GET	Fetch all cars.	{ "carId": 1, "name" "Toyota", "price": 80, "seats": 4 }
/bookings	POST	Create new booking.	{ "carId": 1, "userId": 123, "bookingId": 456, "duration": "7 days", "totalPrice": 560 }
/tracking	POST	Tracking cars.	{ "carId": 1, "userId": 123, "bookingId": 456 }
/signup	POST	Register a new user.	{ "message": Registration Successful, "userId": 123 }
/payment	POST	Process payment.	{ "bookingId": 456, "paymentStatus": "Success" }

## 5. Sanity Schema Example:

```
export default {  
  name: 'car',  
  type: 'document',  
  fields: [  
    { name: 'name', type: 'string' },  
    { name: 'price', type: 'number' },  
    { name: 'seats', type: 'number' },  
    { name: 'image', type: 'image' }  
  ]  
};
```