

# Marketplace Technical Foundation Car Rental E-Commerce

## 1. Frontend Requirements

The frontend will serve as the user-facing interface, ensuring a seamless and user-friendly experience.

### User-Friendly Interface

- **Browse Products:** Users should be able to view available cars with filters (e.g., category, price, car type).

### Responsive Design

- ❖ Fully responsive design for optimal usage on:
  - Mobile devices.
  - Tablets.
  - Desktop screens.
- ❖ Ensure touch-friendly interactions for mobile users.

### Essential Pages

- **Home Page:** Highlight car categories, promotions, and call-to-action (CTA) buttons.
- **Car Listing Page:** List cars with filtering and sorting options.
- **Car Details Page:** Display detailed information such as car features, availability, and pricing.

## 2. Backend Requirements Using Sanity CMS

Sanity CMS will act as the backend to manage and store data related to cars, customers, and bookings.

### 2.1 Sanity Schemas

Design the following schemas to align with business goals:

- **Cars Schema:**
  - o Fields: id, name, category, rental price, features, condition, availability.

Enable sorting and filtering options (e.g., by category, price range).

```
src > sanity > schemaTypes > TS cars.ts > default > fields
1 export default {
2   name: 'car',
3   type: 'document',
4   title: 'Car',
5   fields: [
6     {
7       name: 'name',
8       type: 'string',
9       title: 'Car Name',
10    },
11    {
12      name: 'slug',
13      type: 'slug',
14      title: 'slug',
15      options: {
16        source: 'name'
17      },
18    },
19    {
20      name: 'brand',
21      type: 'string',
22      title: 'Brand',
23      description: 'Brand of the car (e.g., Nissan, Tesla, etc.)',
24    },
25    {
26      name: 'type',
27      type: 'string',
28      title: 'Car Type',
29      description: 'Type of the car (e.g., Sport, Sedan, SUV, etc.)',
30    },
31    {
32      name: 'fuelCapacity',
33      type: 'string',
34      title: 'Fuel Capacity',
35      description: 'Fuel capacity or battery capacity (e.g., 90L, 100kWh)',
36    },
37    {
38      name: 'transmission',
39      type: 'string',
40    },
41  ],
42 }
```

