## Made By Alishba Basharat

Rental car E-commerce website



# Introduction

This document provides a focused overview of the user workflow and technical processes for the Rental Car E-Commerce website. Key User Workflow

## Homepage:

Users browse rental cars with filters for category, price range, and rental duration.

### Car Details:

Users view car details like name, category, price, features (e.g., GPS, Hybrid), and availability.

## Adding to Cart:

Users add cars to the cart after signing in or registering.

### Checkout Process:

Users review cart details, choose rental periods, and make payments.

## Post-Booking:

Booking confirmation, payment, and shipment tracking are provided.

#### Car Rental User Workflow











#### Homepage Browsing

Users browse rental cars with filters for category, price range, and rental duration.

#### Viewing Car Details

Users view car details like name, category, price, features, and availability.

#### Adding to Cart

Users add cars to the cart after signing in or registering.

#### Checkout Process

Users review cart details, choose rental periods, and make payments.

#### Post-Booking Confirmation

Booking confirmation, payment, and shipment tracking are provided. Backend Workflow

Sanity CMS:

Stores car details, bookings, and customer data.

Payment Gateway:

Processes secure payments and saves transaction details.

Shipment Tracking:

Updates car status to "Booked" and provides delivery updates.

#### Car Rental Backend Workflow

Store Car Details

Sanity CMS stores car details, bookings, and customer data Process Payments

Payment
Gateway
processes
secure
payments and
saves
transaction
details

Update Shipment Status

Shipment
Tracking
updates car
status to
"Booked" and
provides
delivery
updates

### System Architecture

Overview:

Frontend:

User interface built with React/Next.js.

Handles browsing, booking, and user interactions.

Sanity CMS:

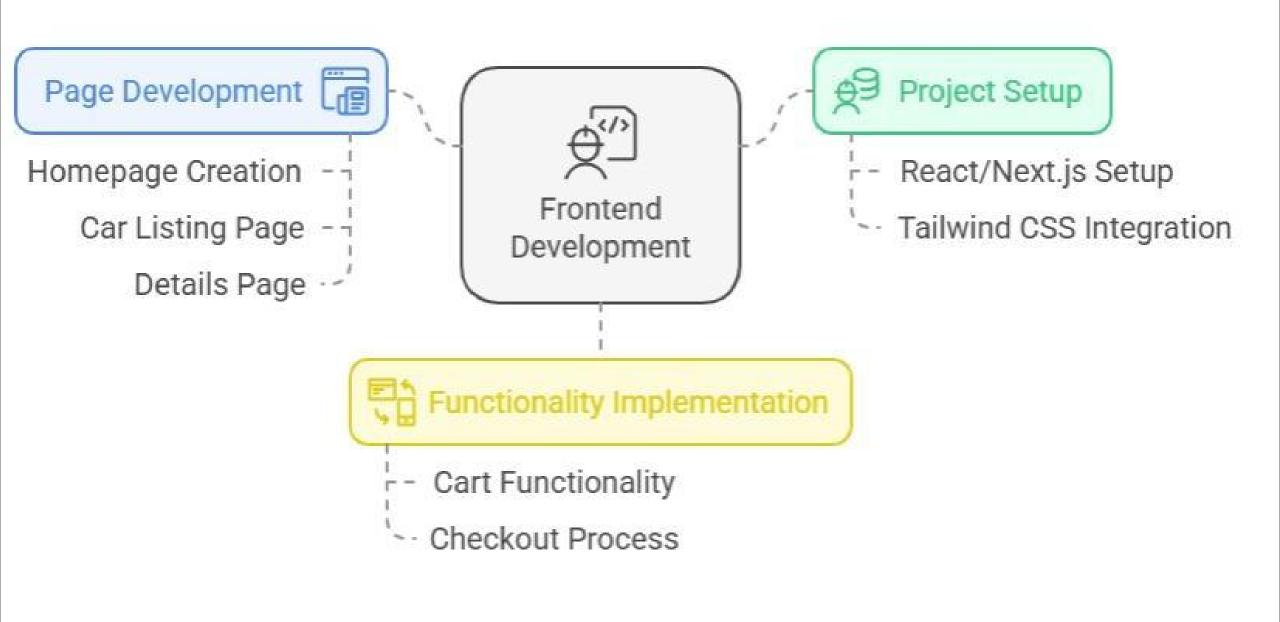
Manages all car-related and customer data.

APIs:

Includes payment, shipment tracking, and car availability services.

## **High-Level Architecture**

```
[User Interface (Frontend - React/Next.js)]
[Sanity CMS - Content Management System]
 [Car Availability API]
[Third-Party APIs: Payment Gateway, AI Recommendations, Shipment
```



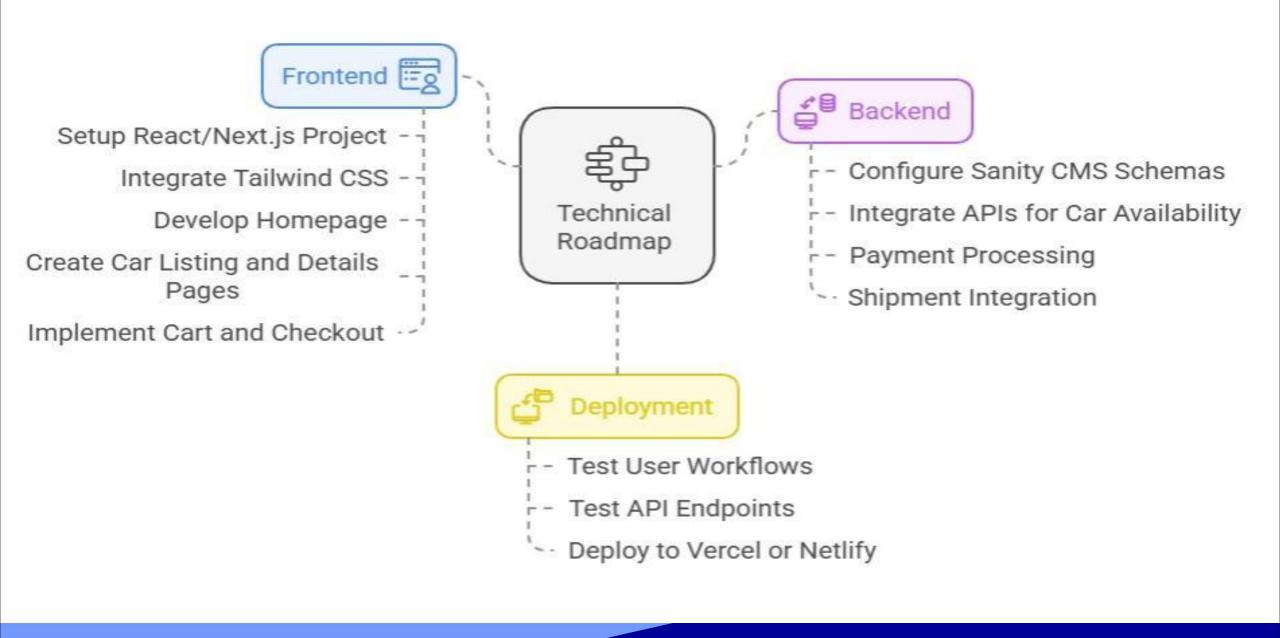
- Technical Roadmap
- Frontend
  Setup React/Next.js project with Tailwind CSS.
  Build homepage, car listing, and details pages.
  Create cart and checkout functionality.

- Backend
- Configure Sanity CMS schemas for cars and bookings.

Integrate APIs for car availability, payments, and shipment.

Deployment

Test user workflows and API endpoints. Deploy to platforms like Vercel or Netlify.



## **Key API Endpoints**

Endpoint	Method	Purpose
GET /cars	GET .	Fetch all cars
GET /cars/:id	GET	Fetch specific car
POST /bookings	POST	Create a booking
POST /payments	POST	Process payment
GET /shipment/:id	GET	Fetch shipment details

```
Sanity Schema Examples
Cars Schema: export default {
  name: 'car',
  type: 'document',
  fields: [
    { name: 'name', type: 'string', title: 'Car Name' },
    { name: 'price', type: 'number', title: 'Price' },
    { name: 'availability', type: 'boolean', title: 'Availability' },
```



```
Customer Schema: export default {
 name: 'customer',
 type: 'document',
 fields: [
    name: 'name', type: 'string', title: 'Customer Name'},
    name: 'email', type: 'string', title; 'Email Address' }
    name: 'phone', type: 'string', title: 'Phone Number'},
    name: 'address', type: 'string', title: 'Address'},
name: 'drivingLicense', type: 'string', title: 'Driving
License Number' },
```

This document provides a concise roadmap for implementing a user-friendly and scalable Rental Car E-Commerce platform.

