Rental Car E-Commerce Marketplace Technical Foundation

*** MORENT ***

Welcome to the Website! This project was created as part of the Hackathon Assignment 2 and showcases a fully functional and responsive car rental platform.

*** *Technical Documentation* ***

Overview

The Rental Car E-Commerce Marketplace allows users to search, book, and pay for car rentals. Built with Next.js, Sanity CMS, and third-party APIs, the platform ensures fast performance, dynamic content management, and secure transactions.

=====Technology Stack=====

Frontend: Next.js, Tailwind CSS

Backend: Next.js API Routes,

Sanity CMS Database: PostgreSQL (via Prisma ORM)

Third-Party APIs: Stripe: Payment processing Shippo: Shipment tracking

Key Features:

Search and filter cars by type, location, and price Real-time booking system with payment integration

Shipment tracking for car deliverie

s Admin Features: Add/update car listings via Sanity CMS Manage bookings and monitor performance

=====API Endpoints=====

Endpoint	Method	Description
/api/auth/register	POST	Register a new user
/api/cars	GET	Fetch all available cars
/api/bookings	POST	Create a new booking
/api/payments	POST	Process a payment

Deployment

Frontend Hosting: Vercel CMS Hosting:

Sanity Studio Database: Hosted on Supabase

=====Security=====

HTTPS for secure communication auth for user authentication Password hashing using bcrypt .

This document provides a concise summary of the platform's technical foundation. For further details, refer to the full project documentation.