

Marketplace Technical Foundation - Car Rental Marketplace

Day 2 Goal:

The purpose of this document is to establish a strong technical foundation for the Car Rental Marketplace. This plan outlines system architecture, workflows, API requirements, and data schemas to align technical solutions with the business goals defined on Day 1.

Technical Requirements

- **Frontend Requirements:**
 - **User-friendly Interface:** Design a simple, intuitive interface for users to browse available cars, check availability, and make bookings.
 - **Responsive Design:** Ensure the site is mobile-friendly, as users may access the marketplace from both desktop and mobile devices.

Essential Pages:

- **Home:**
 - Display popular or featured cars, promotions, and links to car categories.
- **Car Listings:**
 - A search or filter page showing available cars based on location, model, or price.
- **Car Details:**
 - Detailed view of a specific car, including images, specifications, rental price, and availability.
- **Booking Form:**
 - User fill personal information, rental duration, location, additional driver etc.
- **Payment:**
 - Payment methods, order summary, order confirmation etc.

Backend Requirements

- **Sanity CMS:**
 - Design schemas to store car inventory, user information, and booking records.
 - Enable real-time updates for car availability and booking status.

- **Third-Party APIs:**

- Payment Gateway API: Integrate with services like Stripe or PayPal to process payments securely.
- Vehicle Availability and Reservation API: If you plan to manage real-time availability or have a fleet management system, this API can be used to track car availability.
- Shipment Tracking API: This could be useful if cars are delivered to specific locations for the customer's convenience.