

Day 3 - API Integration and Data Migration

Introduction

This document provides an overview of API integration and data migration strategies tailored to the EasyDrive car rental platform. This platform leverages Sanity-Next.js for backend capabilities and focuses on effective management and presentation of car rental data.

API Integration

1. Framework: Sanity-Next.js is utilized for seamless data fetching and management.
2. Key Endpoints:
 - /cars: Provides data for available car rentals.
 - /categories: Retrieves rental categories.
 - /availability: Checks the car's current rental status.
3. Techniques Used:
 - Client-side Fetching: Ensures responsiveness for user interactions.
 - Data Binding: Integration of car details into frontend components.

Data Migration

1. Source and Destination:
 - Source: Legacy car rental data.
 - Destination: Sanity.io for unified content management.
2. Migration Workflow:
 - Extract: Extract data from legacy CSV/SQL files.
 - Transform: Cleanse and transform data into a schema supported by Sanity.
 - Load: Push data using Sanity's API.
3. Challenges Addressed:

- Schema Validation Errors: Resolved through data type corrections.
- Dependency Mapping: Ensured relational data integrity between cars and availability.

Functional Testing of EasyDrive

1. Products Listing:

- Display of rental items with images, descriptions, prices, and availability.
- Test filtering/sorting (e.g., price range, category).

2. Booking Process:

- Validate booking functionality with accurate data flow.
- Test payment gateway integration.

Sanity-Next.js Overview

Sanity-Next.js enables flexible content management with real-time data queries.

Key Benefits:

- Scalable architecture.
- Strong developer tooling and integrations.
- Streamlined workflows for integrating dynamic content.