SINTADRIVE: *CAR RENTAL MANAGEMENT SYSTEM*

Streamlining Car Rentals with Smart technology and user-friendly solutions.

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SINTADRIVE
Car Rental Management System

SintaDrive is a web-based *Car Rental Management System* that allows customers to **browse, book**, and **pay** for vehicles, while enabling administrators to **manage vehicle listings, track bookings, verify payments,** and **monitor car availability** across **multiple locations**. The system streamlines the entire rental process, improves operational efficiency, and delivers a secure and user-friendly experience for both clients and administrators.

SINTADRIVE

Functionalities and Non-Functionalities

The functional specifications define the core features and actions the system performs, while the non-functional specifications describe the quality attributes that ensure the system is secure, reliable, efficient, and user-friendly.

SintaDrive's
Admin Functionalities

Car Management

Admins can add, edit, or remove vehicle listings and details.

Booking Management

Admins can view, approve, update, or cancel bookings

User Management

Admin can add, edit, and remove users from the database.

Payment Management

Admin can review and verify online payments before approving the booking.

Car Locations & Status Management

Admin can update and add locations, as well as the status.

SintaDrive's Client Functionalities

Car Browsing
Users can view cars, based on the pick-up and drop off locations.

Booking Cars
Users can book based on the car locations and time.

User Registration
Users can register and login an account.

Flexible Mode of Payment
Users can choose payment of method. (Cash and Online Payment)

View Booking Status
Users can view their booking status.

SintaDrive's Non-Functionalities

- 🔒 Role-based access: Only admins can enter admin panel

- 🛡️ Secure payment and booking records

- 👆 Mobile-friendly and responsive interface

SintaDrive's
Non-Functionalities

- Fast and secure registration/login process
- Real-time availability shown per location
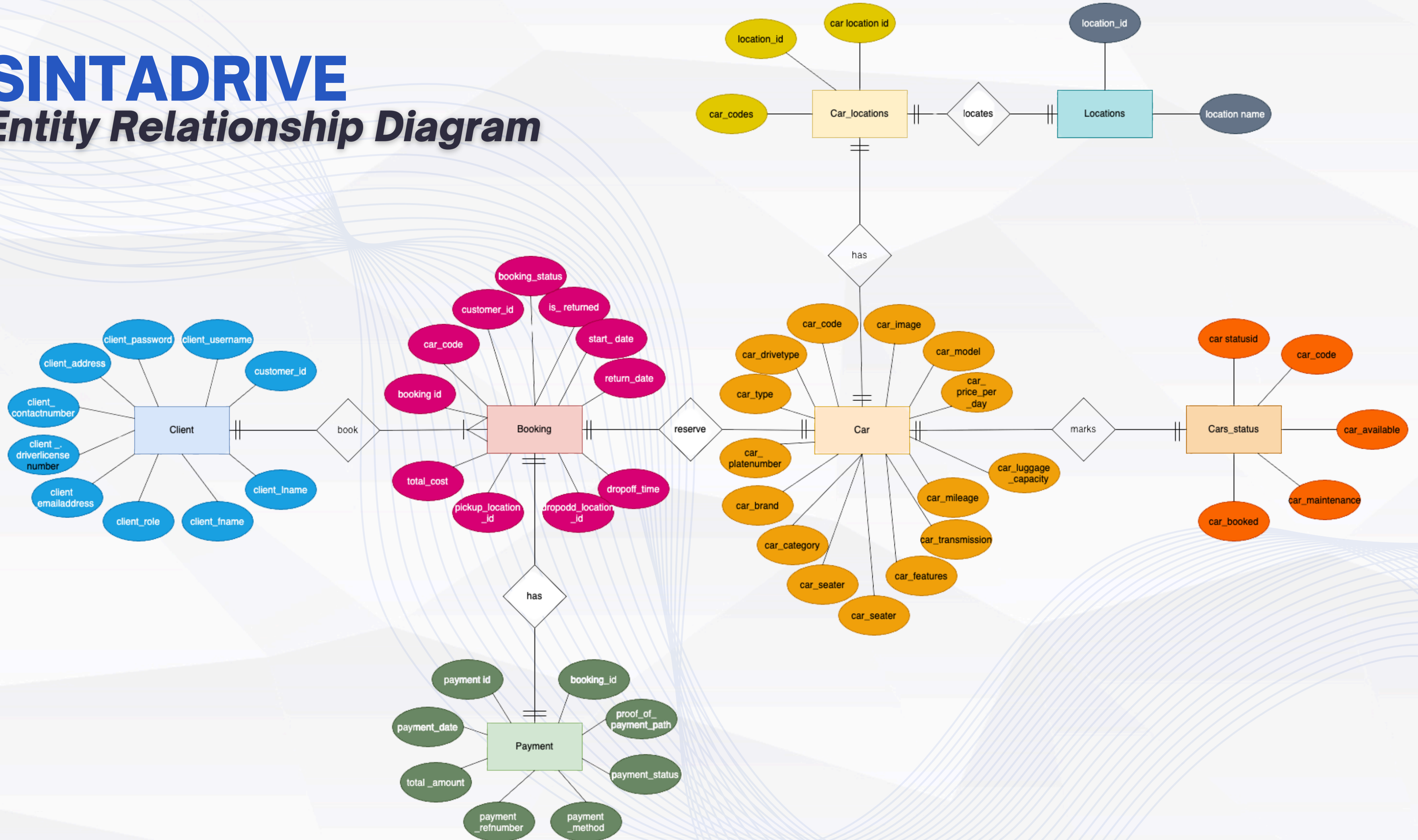- Booking status always up to date

SINTADRIVE

Entity Relationship Diagram (ERD)

Illustrates the structured relationships between key components of the SintaDrive system.

SINTADRIVE
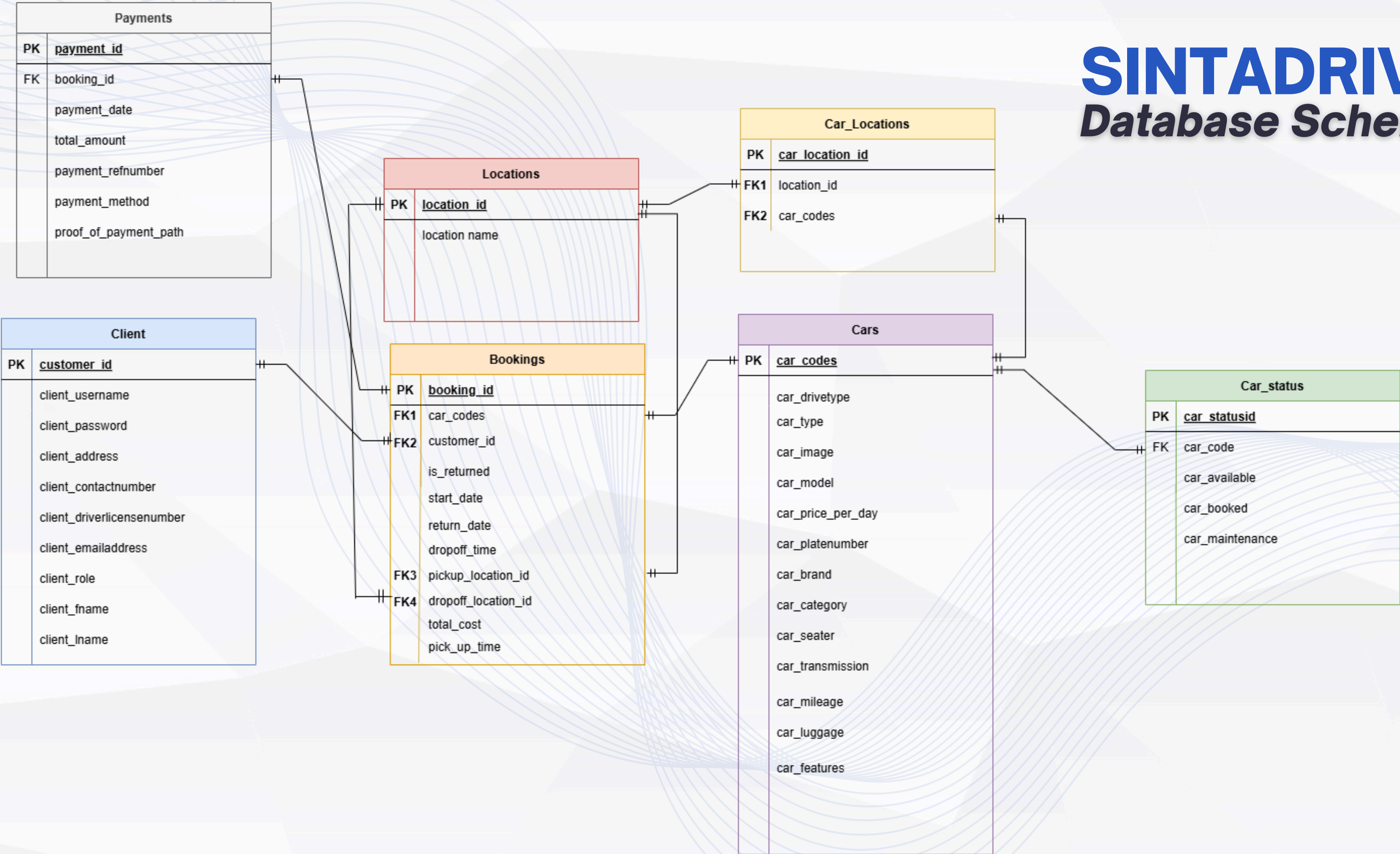## *Entity Relationship Diagram*

SINTADRIVE *Database Schema*

Payments

PK	payment_id
FK	booking_id
	payment_date
	total_amount
	payment_refnumber
	payment_method
	proof_of_payment_path

Client

PK	customer_id
	client_username
	client_password
	client_address
	client_contactnumber
	client_driverlicensenumber
	client_emailaddress
	client_role
	client_fname
	client_lname

Locations

PK	location_id
	location name

Bookings

PK	booking_id
FK1	car_codes
FK2	customer_id
	is_returned
	start_date
	return_date
	dropoff_time
FK3	pickup_location_id
FK4	dropoff_location_id
	total_cost
	pick_up_time

Car_Locations

PK	car_location_id
FK1	location_id
FK2	car_codes

Cars

PK	car_codes
	car_drivetype
	car_type
	car_image
	car_model
	car_price_per_day
	car_platenumber
	car_brand
	car_category
	car_seater
	car_transmission
	car_mileage
	car_luggage
	car_features

Car_status

PK	car_statusid
FK	car_code
	car_available
	car_booked
	car_maintenance

Integration of Database in SQL Editor

SINTADRIVE

Integration of Database with User Interface

SINTADRIVE'S ADMIN SIDE