

Car Booking System

Team Titans

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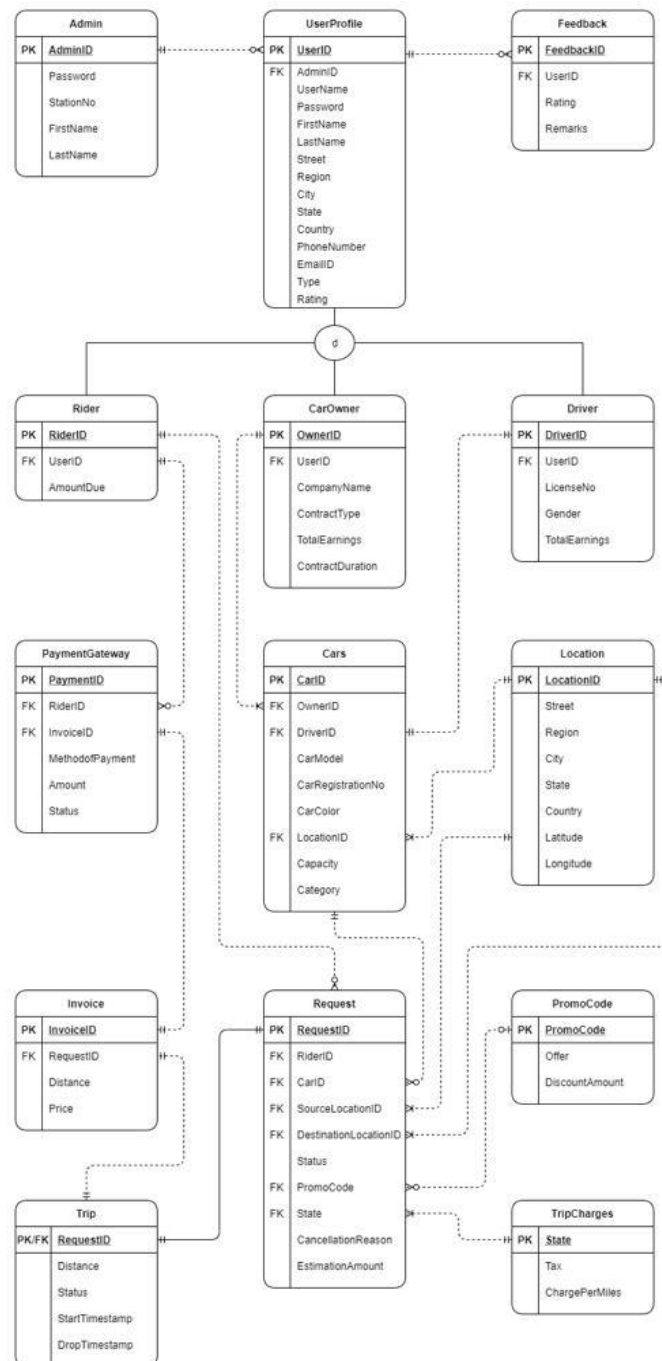
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Entity Relationship Diagram (ERD)





Business Rules

1. Admin can give approvals to zero or more Users.
2. Users can hold any of three profiles. (Car Owner, Rider or Driver)
3. Each Car Owner can have one or more cars.
4. Each User can give zero or more feedback.
5. Each Driver will be assigned a car.
6. Each Car can have zero or more requests.
7. Each Car can be connected with zero or more locations.
8. Each Request will have source location and destination location.
9. Each Request may have zero or more promo code.
10. Successful request is derived from a trip.
11. Each Rider may have zero or more ride requests.
12. Each Rider may have zero or more payment gateway.
13. Invoice will be generated from a trip.
14. Invoice must have at least one payment method.

Security Level (User access,permissions)

Database Admin :

1. Has full access to all the entities in the database.

Admin :

1. Approves (Read/Write/Update) user profiles of Car Owners and Drivers.

Rider :

1. Has Read/Write/Update access to the Request entity.
2. Has Read access to the Payment Gateway entity.
3. Has no access to Cars , Invoice ,Trip, Trip Charges, Promo Code, Location entities.

Car Owner :

1. Has Read/Write/Update access to the Cars entity.
2. Has no access to Request, Trip Charges entities.

Driver :

1. Has Read access to the Cars entity.
2. Has no access to Trip Charges,Promo Code, Location entities.

Entity and Attributes with Data Types

Entity	Attributes	Data Types
Admin	AdminID	varchar()
	Password	varchar()
	StationNo	varchar()
	FirstName	varchar()
	LastName	varchar()
User Profile	UserID	varchar()
	ApprovedByAdmin	varchar()
	UserName	varchar()
	Password	varchar()
	FirstName	varchar()
	LastName	varchar()
	Street	varchar()
	Religion	varchar()
	State	varchar()
	Country	varchar()
	EmailID	varchar()
	Type	varchar()

	OverAllRating	decimal()
Feedback	FeedbackID	int()
	UserID	int()
	Remarks	varchar()
	Rating	decimal()
Rider	RiderID	int()
	UserID	int()
	AmountDue	decimal()
CarOwner	OwnerID	int()
	UserID	int()
	CompanyName	varchar()
	TotalEarnings	decimal()
	ContractDuration	int()
Driver	DriverID	int()
	UserID	int()
	LicenseNo	varchar()
	Gender	char()
	TotalEarnings	decimal()
Cars	CarID	int()
	OwnerID	varchar()

	DriverID	varchar()
	CarModel	varchar()
	CarColor	varchar()
	LocationID	int()
	Capacity	int()
	Category	varchar()
PaymentGateway	PaymentID	int()
	InvoiceID	varchar()
	RiderID	varchar()
	MethodOfPayment	varchar()
	Amount	varchar()
	Status	varchar()
Location	LocationID	int()
	Street	varchar()
	Region	varchar()
	State	varchar()
	Country	varchar()
	Latitude	decimal()
	Longitude	decimal()
Request	RequestID	int()

	RiderID	int()
	CarID	int()
	SourceLocationID	int()
	DestinationLocationID	int()
	Status	varchar()
	PromoCode	varchar()
	ReasonForCancellation	varchar()
	EstimatedAmount	decimal()
Invoice	InvoiceID	int()
	RequestID	int()
	Distance	decimal()
	Price	decimal()
PromoCode	PromoCode	varchar()
	Offer	varchar()
	DiscountAmount	decimal()
Trip	RequestID	int()
	Distance	decimal()
	Status	varchar()
	StartTimestamp	datetime()
	DropTimestamp	datetime()



TripCharges	State	varchar()
	Tax	decimal()
	ChargePerKilometer	decimal()