

# car sales website

design several models that reflect different aspects of the vehicle sales process. I chose five models:

1. **Car**
2. **Customer**
3. **Sales Order**
4. **Payment**
5. **Review**

## 1-car

The car model holds information about the cars available for sale .

@NotNull

private String carId;

Unique identifier for the car.

@NotNull

@Size(min = 3, max = 100)

private String make;

Manufacturer of the car

@NotNull

@Size(min = 1, max = 100)

private String model;

Specific model of the car.

@NotNull

@Min(value = 1900)

private int year;

Year of manufacture

@NotNull

@DecimalMin("500.0")

private double price;

Sale price of the car

## 2- Customer

The customer model manages information about customers.

@NotEmpty

private String customerId;

Unique identifier for the customer

@NotEmpty

@Size(min = 3, max = 100)

private String name;

Customer's full name

@Email

private String email;

Customer's email

@Pattern(regexp = "^\\+?[0-9 .()-]{10,25}\$")

private String phoneNumber;

Contact phone number

@NotEmpty

private String address;

Physical address.

### 3- Sales Order

The Sales Order model records details about transactions.

@NotNull

private String orderId;

Unique identifier for the sales order.

@NotNull

private String carId;

Refers to the car being sold

@NotNull

private String customerId;

Refers to the customer buying the car.

@NotNull

@PastOrPresent

private LocalDate dateOfSale;

Date when the sale was completed.

@DecimalMin("0.0")

private double discount;

Any discount applied to the sale

## 4- Payment

The Payment model handles details about payments.

@NotNull

private String paymentId;

Unique identifier for the payment.

@NotNull

private String orderId;

Associated order identifier

@NotNull

@DecimalMin("1.0")

private BigDecimal amount;

Amount paid.

@NotNull

private String paymentMethod;

Method of payment

## 5- Review

The Review model collects customer feedback on cars.

@NotNull

private String reviewId;

Unique identifier for the review.

@NotNull

private String carId;

Refers to the car being reviewed.

@NotNull

private String customerId;

Refers to the customer who wrote the review.

@Size(min = 10, max = 1000)

private String comment;

Feedback provided by the customer

@Min(1)

@Max(5)

private int rating;

Numerical rating given to the car.