**ER Diagram Documentation  
Online Car Service Platform**

A System Designed for Managing Car Services  
Including Users, Vehicles, Bookings, and Payments

# 1. Introduction

This document outlines the Entity-Relationship (ER) diagram for an online car service platform similar to GoMechanic. The diagram includes various entities and their relationships to represent the core functionality of the system.

# 2. Entities and Attributes

## Users

* - User\_ID
* - Name
* - Email
* - Phone
* - Address

## Vehicles

* - Vehicle\_ID
* - User\_ID (FK)
* - Make
* - Model
* - Year
* - Registration\_Number

## Service\_Centers

* - Center\_ID
* - Name
* - Location
* - Contact

## Services

* - Service\_ID
* - Name
* - Description
* - Price

## Bookings

* - Booking\_ID
* - User\_ID (FK)
* - Center\_ID (FK)
* - Service\_ID (FK)
* - Booking\_Date
* - Status

## Payments

* - Payment\_ID
* - Booking\_ID (FK)
* - Amount
* - Payment\_Date
* - Payment\_Status

# 3. Relationships

1. A User can own multiple Vehicles (One-to-Many).
2. A User can make multiple Bookings (One-to-Many).
3. Each Booking links a User, Service Center, and a specific Service.
4. A Service Center offers multiple Services (One-to-Many).
5. Each Booking may have one associated Payment (One-to-One).

# 4. Use Cases

* - User registration and management.
* - Vehicle management for users.
* - Booking service appointments at service centers.
* - Payment tracking and history.
* - Displaying and managing services offered by service centers.