**1. User**

Represents any person interacting with the platform (Car Owner, Buyer, Service Provider, or Admin).

|  |  |
| --- | --- |
| Attribute | Description |
| UserID (PK) | Unique identifier |
| Name | Full name |
| Email | Email address(OTP) |
| PhoneNumber | PhoneNumber For Contact |
| PasswordHash | Encrypted password |
| Role | Car Owner / Buyer / Service Provider / Admin |
| ProfileImage | Optional profile picture |
| Verified | Boolean flag for verification status |
| CreatedAt | Account creation timestamp |

**2. Vehicle**

Represents a vehicle listed for sale or owned by a user.

|  |  |
| --- | --- |
| Attribute | Description |
| VehicleID (PK) | Unique identifier |
| OwnerID (FK) | Links to User |
| RegistrationNumber | Vehicle Registration Number |
| Make | Vehicle brand (e.g., Honda) |
| Model | Vehicle model (e.g., Civic) |
| Year | Manufacturing year |
| Price | Asking price |
| KilometersDriven | Usage data |
| FuelType | Petrol / Diesel / Electric etc. |
| Transmission | Manual / Automatic |
| Location | City or area |
| Images | List of image URLs |
| Description | Additional details |
| Status | Available / Sold |
| ServiceHistoryID (FK) | Links to service history |

**3. Service Provider**

Details of workshops or garages registered on the platform.

|  |  |
| --- | --- |
| Attribute | Description |
| ProviderID (PK) | Unique identifier |
| UserID (FK) | Linked user account |
| BusinessName | Workshop or garage name |
| Address | Business address |
| ServicesOffered | List of services (e.g., oil change) |
| Pricing | Service prices |
| Ratings | Average rating |
| Verified | Verification status |
| AvailabilitySchedule | Timings available for booking |

**4. Appointment / Booking**

Captures vehicle service bookings by users.

|  |  |
| --- | --- |
| Attribute | Description |
| BookingID (PK) | Unique identifier |
| VehicleID (FK) | Vehicle to be serviced |
| ProviderID (FK) | Service provider |
| UserID (FK) | Who made the booking |
| ServiceType | Type of service (e.g., repair, wash) |
| ScheduledDateTime | Date and time of appointment |
| Status | Booked / Completed / Cancelled |
| Feedback | Post-service review or comments |

**5. Service History**

Tracks all services performed on a vehicle.

|  |  |
| --- | --- |
| Attribute | Description |
| HistoryID (PK) | Unique identifier |
| VehicleID (FK) | Associated vehicle |
| ServiceEntries | List of service entries (date, type) |
| Documents | Uploads like invoices, service slips |

**6. Listing**

For vehicles that are listed for sale.

|  |  |
| --- | --- |
| Attribute | Description |
| ListingID (PK) | Unique identifier |
| VehicleID (FK) | Associated vehicle |
| ListedBy (UserID) | Seller |
| ListingDate | When it was posted |
| IsActive | Boolean for active/inactive |
| OfferReceived | Inquiries or offers (linked) |

**7. Review / Rating**

Captures feedback for service providers and sellers.

|  |  |
| --- | --- |
| Attribute | Description |
| ReviewID (PK) | Unique identifier |
| ReviewerID (UserID FK) | User who submitted the review |
| TargetID (UserID or ProviderID) | Reviewed entity |
| RoleReviewed | Seller / Service Provider |
| Rating | Numeric rating |
| Comments | Optional written feedback |
| Date | Submission timestamp |

**8. Admin Action / Report**

Used for admin moderation and issue resolution.

|  |  |
| --- | --- |
| Attribute | Description |
| ActionID (PK) | Unique identifier |
| AdminID (FK) | Admin user performing the action |
| TargetEntity | User / Listing / Review |
| ActionType | Verify / Ban / Flag / Resolve |
| Notes | Admin comments |
| Timestamp | Action date |

**9. Document**

Used for storing uploaded vehicle documents.

|  |  |
| --- | --- |
| Attribute | Description |
| DocumentID (PK) | Unique identifier |
| OwnerID (UserID FK) | Who uploaded it |
| DocumentType | RC / PUC / Insurance etc. |
| FileURL | Location of file (e.g., S3 or Cloudinary) |
| UploadDate | Timestamp |