MongoDB CRUD Operations for Car Pooling Platform

**1) Users Collection**

**Create**

**Add a new user:**

db.users.insertMany([

{

email: "barathparthi2005kumar@gmail.com",

password: "$2b$10$BlBbJ/WOnvq4fymwXtwnZOZ5iiZ/dmSpWTgneZeIaZvEPIFoaNjh",

name: "Barath Kumar P",

phone: "123-456-7890",

role: "rider",

isVerified: false,

emergencyContact: {

name: "Emergency Contact",

phone: "987-654-3210"

},

ratings: []

},

{

email: "e032246@sret.edu.in ",

password: "$2b$10$BlBbJ/WOnvq4fymwXtwnZOZ5iiZ/dmSpWTgneZeIaZvEPIFoaNjh",

name: "Bhargow",

phone: "123-456-7891",

role: "admin",

isVerified: false,

emergencyContact: {

name: "Emergency Contact",

phone: "987-654-3210"

},

ratings: []

},

{

email: "e0322026@sret.edu.in ",

password: "$2b$10$BlBbJ/WOnvq4fymwXtwnZOZ5iiZ/dmSpWTgneZeIaZvEPIFoaNjh",

name: "Rishitha",

phone: "4648474837",

role: "driver",

isVerified: false,

emergencyContact: {

name: "Emergency Contact",

phone: "987-654-3210"

},

ratings: []

}

])

**Read**

**Find all drivers:**

db.users.find({ role: "driver" })

**Update**

**Update a user's phone number:**

db.users.updateOne(

{ \_id: "user1" },

{ $set: { phone: "987-654-3210" } }

)

**Delete**

**Remove a user:**

db.users.deleteOne({ \_id: "user1" })

**2) Rides Collection**

**Create**

**Post a new ride:**

db.rides.insertOne({

driver: "user1",

startLocation: "Start Location",

startCoordinates: {

lat: 40.730610,

lon: -73.935242

},

endLocation: "End Location",

endCoordinates: {

lat: 40.758610,

lon: -73.985242

},

departureTime: ISODate("2023-10-03T08:00:00Z"),

seatsAvailable: 4,

pricePerSeat: 0,

status: "open",

passengers: []

})

**Read**

**Find rides by a driver:**

db.rides.find({ driver: "user1" })

**Update**

**Update ride status:**

db.rides.updateOne(

{ \_id: "ride1" },

{ $set: { status: "booked", seatsAvailable: 0 } }

)

**Delete**

**Cancel a ride:**

db.rides.deleteOne({ \_id: "ride1" })

**3) Bookings Collection**

**Create**

**Book a ride:**

db.bookings.insertOne({

ride: "ride1",

rider: "user2",

seatsBooked: 1,

status: "pending",

createdAt: ISODate("2023-09-25T01:00:00Z")

})

**Read**

**Find all bookings for a rider:**

db.bookings.find({ rider: "user2" })

**Update**

**Confirm a booking:**

db.bookings.updateOne(

{ \_id: "booking1" },

{ $set: { status: "confirmed" } }

)

**Delete**

**Cancel a booking:**

db.bookings.deleteOne({ \_id: "booking1" })