Vehicle as a Service - Class Diagram

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Vehicle

- Vehicle_ID
- Reg_no.
- type
- avgRating

+ typeOfService()
+ availableDriver()
+ currentLocation()
+ emergency()
+ maintenance()

Service

- Service_no.
- userDetails
- typeOfService
- paymentMethod
- pickupLocation(s)
- dropLocation(s)

+ getUserDetails()
+ getServiceDetails()
+ bookService()
+ calculateDistance()
+ calculateFair()
+ findOptimalRoute()

Customer

- Customer_ID
- Gender
- Age

+ currentLocation()
+bookService()

Assigner

- requestQue

+ handleRequest()
+ getDetails()
+ allocateVehicle()
+ allocateDriver()
+ handleEmergency()
+ handleMaintenance()

Driver

- Driver_ID
- Name
- Gender
- Age
- License_no.
- avgRating
- experience

+ typeOfService()
+ availableCar()
+ currentLocation()

Customer —Books→ Service

Service —requestToAssign→ Assigner

Assigner —Assign→ Service

Assigner —Assign→ Vehicle

Assigner —Assign→ Driver