Supporting class

package com.rental.customers;

import java.util.ArrayList;

import java.util.List;

public class Customer {

private final String name;

private final String licenseNumber;

private final List<String> rentalHistory;

public Customer(String name, String licenseNumber) {

this.name = name;

this.licenseNumber = licenseNumber;

this.rentalHistory = new ArrayList<>();

}

public String getName() { return name; }

public String getLicenseNumber() { return licenseNumber; }

public void addRentalRecord(String record) {

rentalHistory.add(record);

}

public List<String> getRentalHistory() {

return new ArrayList<>(rentalHistory);

}

}

Rental Agency class

package com.rental.agency;

import com.rental.vehicles.Vehicle;

import com.rental.customers.Customer;

import java.util.ArrayList;

import java.util.List;

public class RentalAgency {

private final List<Vehicle> fleet;

public RentalAgency() {

fleet = new ArrayList<>();

}

public void addVehicle(Vehicle vehicle) {

fleet.add(vehicle);

}

public Vehicle findAvailableVehicle(Class<? extends Vehicle> vehicleType) {

return fleet.stream()

.filter(vehicle -> vehicle.getClass().equals(vehicleType) && vehicle.isAvailable())

.findFirst()

.orElse(null);

}

public void generateReport() {

fleet.forEach(System.out::println);

}

}