

PlantUML Sequence Diagram:

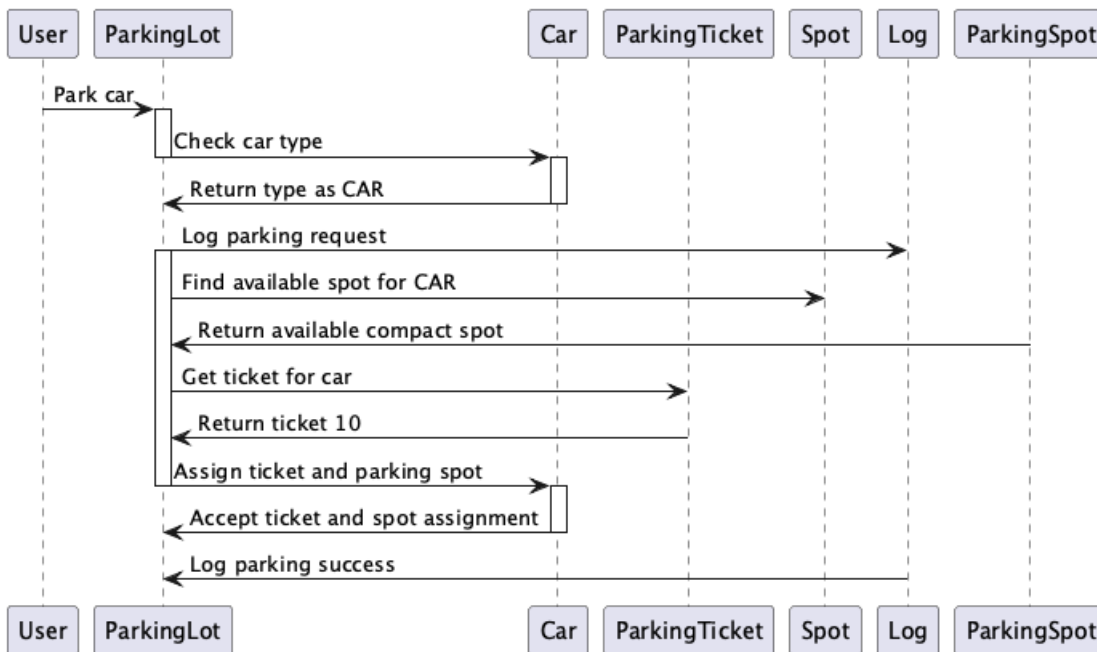
Root Cause Analysis:

Based on the provided log entries, there are no crashes observed.

The log messages indicate the successful parking of a vehicle of type Car. The flow progresses smoothly from the user requesting parking to the car being assigned a spot and receiving a ticket.

Here's a breakdown of the actions:

1. User requests parking for their car.
2. Parking lot receives the request and checks the car's type.
3. Car type is identified as `VehicleType.CAR`.
4. Parking lot logs the parking request.
5. Parking lot finds an available compact spot suitable for the car.
6. Parking lot retrieves a parking ticket (number 10) for the car.
7. Parking lot assigns the ticket and spot to the car.
8. Car accepts the assigned spot and ticket.
9. Parking lot successfully logs the completed parking action.



Logs:

```
2025-01-25 16:25:47,631 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Creating new parking spot , line:
70
2025-01-25 16:25:47,631 - root - INFO - class: Car, module: src.vehicle.vehicle_types,
file: vehicle_types.py, log: Car type is VehicleType.CAR, line: 24
2025-01-25 16:25:47,631 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Parking full , line: 75
2025-01-25 16:25:47,631 - root - INFO - class: Car, module: src.vehicle.vehicle_types,
file: vehicle_types.py, log: Assigning ticket None, line: 12
2025-01-25 16:25:47,631 - root - INFO - class: Car, module: src.vehicle.vehicle_types,
file: vehicle_types.py, log: Car type is VehicleType.CAR, line: 24
2025-01-25 16:25:47,631 - root - INFO - class: ParkingTicket, module:
src.parking.parkingticket, file: parkingticket.py, log: Getting parking ticket 10,
line: 11
2025-01-25 16:25:47,631 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Finding spot , line: 61
2025-01-25 16:25:47,631 - root - INFO - class: ParkingSpot, module:
src.parking.parkingspot, file: parkingspot.py, log: Parking spot assigned., line: 21
```

(Esp if you provide an incorrect prompt/insufficient data)