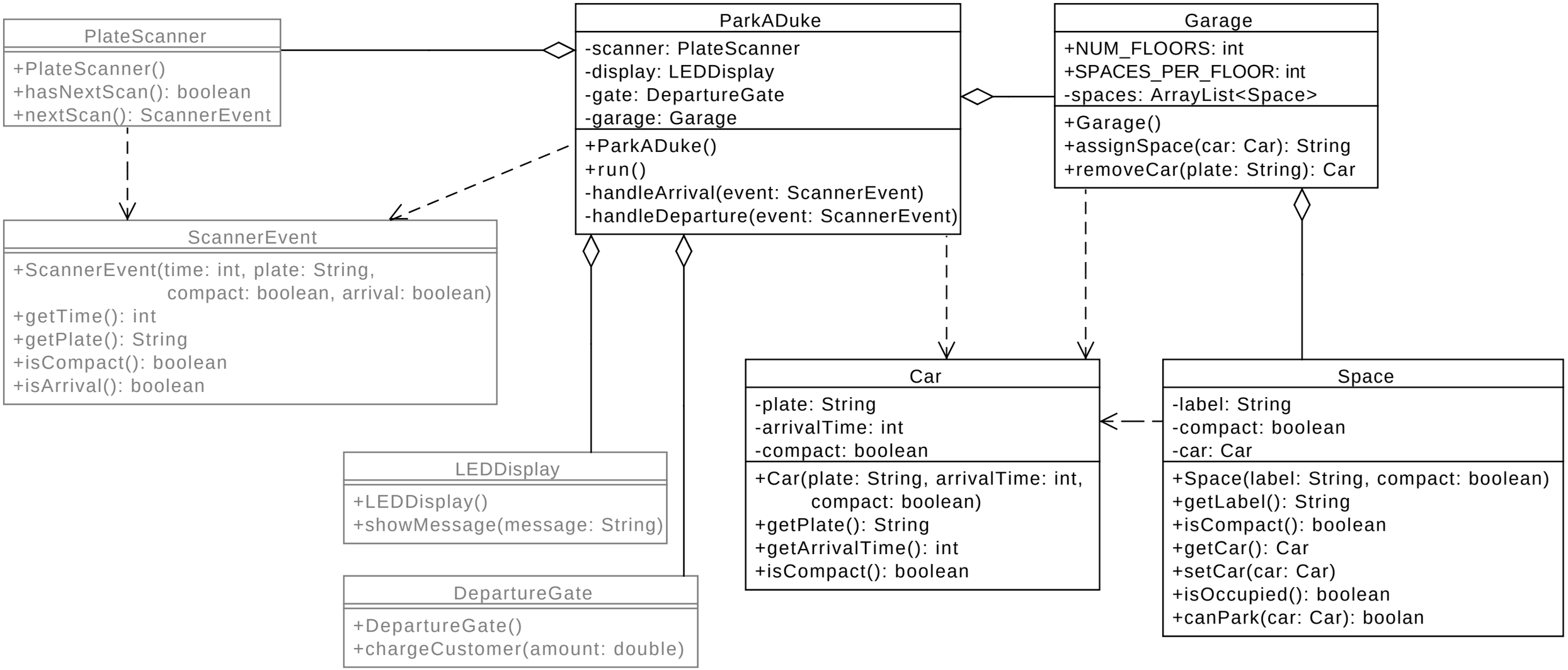
PlateScanner
+PlateScanner()
+hasNextScan(): boolean
+nextScan(): ScannerEvent
ParkADuke
-scanner: PlateScanner
-display: LEDDisplay
-gate: DepartureGate
-garage: Garage
+ParkADuke()
+run()
-handleArrival(event: ScannerEvent)
-handleDeparture(event: ScannerEvent)
Garage
+NUM_FLOORS: int
+SPACES_PER_FLOOR: int
-spaces: ArrayList<Space>
+Garage()
+assignSpace(car: Car): String
+removeCar(plate: String): Car
ScannerEvent
+ScannerEvent(time: int, plate: String,
compact: boolean, arrival: boolean)
+getTime(): int
+getPlate(): String
+isCompact(): boolean
+isArrival(): boolean
Car
-plate: String
-arrivalTime: int
-compact: boolean
+Car(plate: String, arrivalTime: int,
compact: boolean)
+getPlate(): String
+getArrivalTime(): int
+isCompact(): boolean
Space
-label: String
-compact: boolean
-car: Car
+Space(label: String, compact: boolean)
+getLabel(): String
+isCompact(): boolean
+getCar(): Car
+setCar(car: Car)
+isOccupied(): boolean
+canPark(car: Car): boolan
LEDDisplay
+LEDDisplay()
+showMessage(message: String)
DepartureGate
+DepartureGate()
+chargeCustomer(amount: double)