CAR PARK

**Assignment**

You are required to create a simple service API that will allow a client to manage their parking slot allocation. Parking slots may be queried and managed – allocated, amended or unallocated.

* A car park has many parking slots.
* A slot could be acquired for a X number of hours, where X >= 1h and X <= 4h
* When the acquired time period elapses, it should be possible to allocate the slot again

**Scenarios**

1. User enters a car park and requests a free slot for a number of hours.
2. User chooses to re-allocate their current slot for a number of hours.
3. User leaves car park before the allocated time has passed.

**Guidelines**

* The solution should be written in Java, Scala
* Use a TDD approach
* Expose API as REST resources
* Feel free to make any assumptions, ask questions and get us engaged
* No restrictions on external libraries

**Simplifications**

* Any persistence can be held in memory
* Ignore authentication and authorization concerns
* We do not need to handle future reservations.
* We do not need to maintain a log or history.