

# Diagrams

Sunday, November 6, 2016 2:29 PM

## Domain Level Classes

### ParkingLot

```
-LOTID: int  
-LotName: String  
-totalExited: int  
-totalEntered: int  
-vehiclesInLot: int  
-GENSPOTS: int  
-HANDISPOTS: int  
-FACSTAFFSPOTS: int
```

```
+ParkingLot(String aName, int aId, int aGenSpots,  
             int aHandiSpots, int aFacStaffSpots): void  
+getId(): int  
+getName(): String  
+getGenSpots(): int  
+getHandiSpots(): int  
+getFacStaffSpots(): int  
+getTotalEnt(): int  
+getTotalExit(): int  
+getTotalVehicles(): int  
-setGenSpots(int aGenSpot): void  
-setHandiSpots(int aHandiSpot): void  
-setFacStaffSpots(int aFacStaffSpot): void  
-setId(int aLotId): void  
+setName(String aName): void
```

GENSPOTS, HANDISPOTS, and FACSTAFFSPOTS are all CONSTANTS b/c they are the total # of spots of those specific types in the lot. LOTID is also CONSTANT b/c it is how the database will identify the specific lot. They are set using their respective setters upon constructing the specific lot.

setGenSpots(), setHandiSpots(), setFacStaffSpots(), and setId() are only going to be used by the constructor. Don't need setters for totalEntered and totalExited b/c those variables are initiated to zero. The getters for totalEntered and totalExited will query the database of parking lots (which collects information from each individual sensor plate). Then

`getTotalVehicles()` will subtract the number of vehicles exited from the number of vehicles entered to return its value (will check first to make sure that `totalEntered > totalExited`).