**Parking Lot Application**

**Problem Statement**: Design and build an application for a parking lot.

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| **Classes** | **Parking Lot** | **Parking Level** | **Parking Space** |
| **Relationship** | A parking lot has several parking levels | A parking level has several parking spaces | Parking space is contained within a parking level and a parking lot |
| **Attributes defined at initialization** | name | Name, parking lot | Name, parking level |
| **Instance methods** | 1. parkinglevels (returns array of parking level objects in a lot) 2. names\_Parkinglevels (returns array of names of parking levels 3. parkingspaces (..) 4. names\_parkingspaces (..) | 1. parkingspaces (returns an array of parking space objects in the lot)  2. names\_parkingspaces (retruns an array of names of parking space objects) | 1. Parkinglot (returns the parking lot to which it belongs to) |

**List of Files**

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| **File name** | **Purpose** |
| ParkingLot.rb | Ruby file containing above listed classes |
| seeddata\_ParkingLot.rb | Seed data that was loaded to ensure claases work as expected |
| test\_ParkingLot.rb | Units tests written in MiniTest |
| testdata\_ParkingLot.rb | Yaml file used for unit testing |