Pattern Applied

Persistence Handler:

1. Low coupling. Can introduce other ways to save information other than an oracle database without depending on any other class.

2. High cohesin: sole responsibility is to manage input and output of data

3. Pure fabrication: not a real object

4. Protected Variation: allows new DBs to be added without affecting original codebase.

5. Polymorphism: persistence handler is the super class of other types of handlers

PersistenceFactory:

1. Factory: gives the appropriate handler for the required database

2. Singleton : only one instance of a persistence factory needed

3. Pure fabrication: not a 'real world' entity, but still used to return correct persistence handler

Parking:

1. High cohesion: all responsibilities related to storing and retreiving car data assigned to parking

2. Singleton: only one parking in the rental store

3. Creator: can create new cars in the parking as parking contains cars and has all information needed to create cars

4. Controller: controls all tasks related to car updation/addition

driverRoster:

1. High cohesion: all responsibilities related to storing and retreiving driver data assigned to roster

2. Singleton: only one driver roster in the rental store

3. Creator: can create new drivers in the roster as rosters tracks drivers and has all information needed to create drivers

4. Controller: controls all tasks related to driver updation/addition

Assignment:

1. High cohesion: handles all assignment related responsibilites

2. Information expert: has all the information needed to change car-driver assignments

NotificationHandler:

1. High cohesion: handles all notification related tasks

2. Low coupling: can change how notifications are sent without affecting any domain classes using notifications

3. Indirection: all notification related tasks can be performed by notification handler and no direct calls to the SMS interface are required

4. Pure Fabrication: not a 'real' entity but is still involved in managing notification functions

SMSAdapter

1. Adapter: allows compatibility between SMS API and the notificationHandler