primateSanctuary

Driver Class

Sanctuary

-monkeyMap: Map
-isolation: Isolation
-enclosureList: List

+ createIsolation(params)
+ createEnclosure(params)
+ createMonkey (params)
+ addMonkeyToSanctuary (monkey)
+ getMonkeyIsolation()
+ getMonkeyInEnclosure(enclosure)
+ getSpeciesListInIsolation()
+ getSpeciesListInEnclosure(enclosure)
+ getEnlsoureSignBoard(enclosure)
+ increaseIsolationCapacity(int size)
+ getIsolationCapacity()
+ getIsolationOccupancy()
+ getEnclosureCapacity(enclosure)
+ getEnclosureAvailability(enclosure)
+ lookupSpeciesInIsolation()
+ lookupSpeciesInEnclosure(enclosure)
+ getShoppingList()
-createShoppingList()
+shiftMonkeyToEnclosure(monkey)
-changeLocationToEnclosure(int enclsoureNumber, monkey)
-checkForEnclosure(Species, monkeySpaceSize)

enums

Foods

+Eggs
+Fruits
+Insects
+Leaves
+Nuts
+Seeds
+TreeSap

+enum Foods()

Sex

+Male
+Femal

+enum Sex()

Species

+ Drill
+ Guereza
+Howler
+Mangabey
+Saki
+Spider
+Squirrel
+Tamarin

+enum Species()

Size

+Large
+Medium
+Small

+enum Size()

<<interface>>
AnimalInterface

+getName()
+getSpeciesType()
+getSex()
+getSize()
+setSize()
+getWeight()
+setWeight()
+getAge()
+setAge()
+getFavoriteFood()
+toString()

<<interface>>
SanctuaryInterface

+addMonkey()
+ isSpaceAvailable()
+lookupMonkey()
+reportAllSpeciesList()
+reportAllMonkeyInHousing()
+lookupSpecies()

entities

Monkey

-name: String
-species: Enum Species
-sex: Enum Sex
-size: Enum Size
-weight: double
-ageInMonths: double
-favFood: Enum Foods

+setSize()
+setWeight()
+setAge()

+getName()
+getSpeciesType()
+getSex()
+getFavouriteFood()
+getSize()
+getWeight()

Housing

Isolation

-cages: Map<String, Object>
-totalCapacity: Integer
-spaceAvailable: Integer

+increaseSize()
+getTotalCages()
+removeMonkeyFromIsolation()

Isolation

-name: String
-species: Enum Species
-troops: Map<String, Object>
-totalCapacity: Integer
-availableSpace: Integer

+signBoard()
+getName()
+getTotalCapacity()
+getAvailableSpace()
+getSpecies()
-manageCapacityAfterAdding()
+isEmpty()