ScenarioService
ScenarioService(String, String)
LONGITUDE_DIRECTION Character[]
GENDER String[]
SPECIES String[]
savedHumanAge ArrayList<Integer>
PROFESSION String[]
scenarios ArrayList<Scenario>
simulationLogPath String
LATITUDE_DIRECTION Character[]
attributes HashMap<String, int[]>
DISASTER String[]
consent boolean
BODYTYPE String[]
userLogPath String
STATUS String[]
parseLine(String, int) Object
addResidentAttributes(Resident, HashMap<String, int[]>) void
loadScenarios(String, ArrayList<Scenario>) void
parseCharacter(String[], int) Resident
setUserLogPath(String) void
addSavedAttribute(String) void
parseScenario(String[], int) Scenario
getUserLogPath() String
randomScenarioGeneration(int) void
addAttribute(String, HashMap<String, int[]>) void
loadScenarios(String, ArrayList<Scenario>, ArrayList<Scenario>) void
printStatistics(int) void
collectUserConsent(Scanner) void
runSimulation(Scenario, Location) void
printStatistics(int, boolean, HashMap<String, int[]>) void
addResidentAttributes(Resident) void
getAvgAge(ArrayList<Integer>) double
addSavedResidentAttributes(Resident, HashMap<String, int[]>) void
deployRescueBot(Scanner, Scenario) void
audit(Scanner, String) void
loadScenariosFromFile(String) void
randomScenarioGeneration() void
addAttribute(String) void
setConsent(boolean) void
addAttribute(String) void
setConsent(boolean) void
getLocationOrResident(Scenario, Location, Object) Location
getScenarios() ArrayList<Scenario>
getAttributes() HashMap<String, int[]>
setAttributes(HashMap<String, int[]>) void
parseLocation(String[], int) Location
addSavedAttribute(String, HashMap<String, int[]>) void
setScenarios(ArrayList<Scenario>) void
addSavedResidentAttributes(Resident) void
isConsent() boolean
presentScenarios(Scanner) void
Resident
Resident(String, int, String)
gender String
age int
bodyType String
getAge() int
setGender(String) void
setAge(int) void
getBodyType() String
getGender() String
setBodyType(String) void
getDescription() String
Human
Human(String, int, String, String, Boolean)
ageCategory String
profession String
isPregnant Boolean
setPregnant(Boolean) void
getDescription() String
getAgeCategory() String
setAgeCategory(String) void
getPregnant() Boolean
setProfession(String) void
getProfession() String
Animal
Animal(String, int, String, String, Boolean)
species String
isPet Boolean
isTrespassing Boolean
getDescription() String
setTrespassing(Boolean) void
setSpecies(String) void
getSpecies() String
setPet(Boolean) void
getPet() Boolean
getTrespassing() Boolean
ageCategory
ageCategory()
BABY
CHILD
SENIOR
ADULT
values() ageCategory[]
valueOf(String) ageCategory
Location
Location(double, double, char, char, boolean, ArrayList<Reside
Location(double, double, char, char, boolean)
isTrespassing boolean
isSaved boolean
residents ArrayList<Resident>
latitude double
latitudeDirection char
longitudeDirection char
longitude double
status String
setTrespassing(boolean) void
getLatitude() double
isTrespassing() boolean
getStatus() String
setLongitudeDirection(char) void
setLatitudeDirection(char) void
getCoordinates() String
getLatitudeDirection() char
setLongitude(double) void
setResidents(ArrayList<Resident>) void
isSaved() boolean
setLatitude(double) void
setStatus(String) void
setSaved(boolean) void
getLongitudeDirection() char
getLocationInfo() String
getLongitude() double
getResidents() ArrayList<Resident>
Scenario
Scenario(String)
Scenario(String, ArrayList<Location>)
locations ArrayList<Location>
disaster String
rescuedLocation int
isSimulation boolean
getRescuedLocation() int
getLocation(int) Location
setRescuedLocation(int) void
presentScenario() void
setDisaster(String) void
isSimulation() boolean
getDisaster() String
setSimulation(boolean) void
getLocations() ArrayList<Location>
setLocations(ArrayList<Location>) void
InvalidCharacteristicException
InvalidCharacteristicException(Resident)
InvalidCharacteristicException(Location)
InvalidCharacteristicException(int)
InvalidCharacteristicException()
InvalidCharacteristicException(String)
InvalidCharacteristicException(Scenario)
scenario Scenario
location Location
resident Resident
setScenario(Scenario) void
getScenario() Scenario
setLocation(Location) void
setResident(Resident) void
getLocation() Location
getResident() Resident
InvalidNumberFormatException
InvalidNumberFormatException(Resident)
InvalidNumberFormatException(String)
InvalidNumberFormatException(int)
InvalidNumberFormatException(Scenario)
InvalidNumberFormatException(Location)
InvalidNumberFormatException()
scenario Scenario
resident Resident
location Location
setScenario(Scenario) void
getLocation() Location
setResident(Resident) void
getResident() Resident
setLocation(Location) void
getScenario() Scenario
InvalidDataFormatException
InvalidDataFormatException(Scenario)
InvalidDataFormatException(int)
InvalidDataFormatException(String)
InvalidDataFormatException()
InvalidDataFormatException(Location)
InvalidDataFormatException(Resident)
location Location
resident Resident
scenario Scenario
getLocation() Location
setResident(Resident) void
getResident() Resident
setLocation(Location) void
setScenario(Scenario) void
getScenario() Scenario
RandomScenario
RandomScenario()
AUTO_GENERATED_PROFESSION String[]
LATITUDE_DIRECTION Character[]
LONGITUDE_DIRECTION Character[]
AUTO_GENERATED_BODYTYPE String[]
AUTO_GENERATED_GENDER String[]
AUTO_GENERATED_SPECIES String[]
AUTO_GENERATED_DISASTER String[]
randomScenarioGeneration(ArrayList<Scenario>) void
randomLocation() Location
randomScenario(ArrayList<Scenario>, Random, int) void
randomScenarioGeneration(ArrayList<Scenario>, int) void
randomCharacter() Resident
RescueBot
RescueBot()
SIMULATION_LOG_PATH String
IS_TRESPASSING double
HUMAN_SCORE double
USER_LOG_PATH String
printHelpAndExit() void
getScenarioCount(Scanner) int
decide(Scenario) Location
displayMainMenu(Scanner, ScenarioService, String, String, String)
main(String[]) void
simulation(ScenarioService, String) void
AttributeSurvivalRatio
AttributeSurvivalRatio(String, double)
survivalRatio double
attributeName String
getAttributeName() String
getSurvivalRatio() double
compareTo(AttributeSurvivalRatio) int
RescueLog
RescueLog()
writeToCSV(String, Scenario, Boolean) void
InvalidInputException
InvalidInputException()
InvalidInputException(String)