PROG10004 ASSIGNMENT 4 UML MODEL

USES

Application + listSensors: list + dictSensors: dict + numSensors: int + source: str + destination: str + path: list + prevSource: str + getListSensors(self): list + getNumSensors(self): int + getDictSensors(self): dict + getSource(self): str + getDestination(self): str + getPath(self): list + getPreviousSource(self): str + setListSensors(self, newListSensors) + setNumSensors(self, newNumSensors) + setDictSensors(self, newDictSensors) + setSource(self, newSource) + setDestination(self, newDestination) + setPath(self, newPath) + setPrevSource(self, newPrevSource) + addToPath(self, node) + removeLastNodeFromPath(self) + askNumSensors(self) + askSensorID(self, type): str + createSensors(self) + convrtToDictionary(self, listSensors) + getSourceAndDestination(self) + findNodeMaxDistance(self, prevSource, key, dict)

+ findPath(self, dictSensors, source, destination, path)

WirelessNetworks

+ ADHOC_Mode: str + BRAND_NAME: str

+ _id: int

+ _oxygenLevel: int+ _temperature: float+ neighborsList: list

+ __init__(self) + getID(self): int

+ getOxygenLevel(self): int

+ getTemperature(self): float

+ getNeighborsList(self): list

+ setId(self, newId)

+ setOxygenLevel(self, newOxygenLevel)

+ setTemperature(self, newTemperature)

+ setNeighborsList(self, newNeighborsList)

+ askSensorID(self)

+ getNeighbors(self): int

+getNeighborOfSensor(self, sensorID): str

+ getDistance(self, sensorID): int

+ getOxygen(self)

+ getTemp(self)

+ greetMessage(self)