Package main

Class PennMap

java.lang.Object main.PennMap

All Implemented Interfaces:

IMapMaker, IMapModel

public class PennMap extends java.lang.Object implements IMapMaker, IMapModel

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Constructor Summary

Constructors	
Constructor	Description
PennMap()	
<pre>PennMap (java.util.List<java.lang.string> init,</java.lang.string></pre>	This constructor is to make a field of all locations and roads based on the input data

Method Summary

Coordinate currPt)

All Methods	Instance Metho	ods	Concrete Methods		
Modifier and Typ	oe	Metho	od		Description
java.util.L	ist< Location >		All (java.lang.String type le dist)	е,	this method will find all locations for the specific distance given
Location		find	Nearest(java.lang.String	type)	findNearest() returns the nearest Location of a given type from the current

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

PREV CLASS NEXT CLASS

FRAMES NO FRAMES

ALL CLASSES

SEARCH: Q Search

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

public PennMap()

PennMap

public PennMap(java.util.List<java.lang.String> init, Coordinate currPt)

This constructor is to make a field of all locations and roads based on the input data

Parameters:

initial - data input

current - location of the user

Method Detail

findShortestPath

public java.lang.String findShortestPath(java.lang.String loc1, java.lang.String loc2)

Description copied from interface: IMapModel

findShortestPath() returns the directions in text for the shortest path from a starting Location to a destination

Specified by:

findShortestPath in interface IMapModel

Parameters:

loc1 - --- the starting location

loc2 - ---- the ending location

Returns:

the directions for the shortest path from one location to another

findAll

public java.util.List<Location> findAll(java.lang.String type, double dist)

PREV CLASS NEXT CLASS

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ALL CLASSES

SEARCH: Q Search

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

type - --- type of the location

dist - ----the distance from user input

Returns:

a list of locations in the given distance

findNearest

public Location findNearest(java.lang.String type)

Description copied from interface: IMapModel

findNearest() returns the nearest Location of a given type from the current user Location, or null if not found

Specified by:

findNearest in interface IMapModel

Parameters:

type - --- the type of location

Returns:

the nearest location for the specific type

makeQuadTree

public IQuadTree makeQuadTree()

Description copied from interface: IMapMaker

makeQuadTree() constructs a IQuadTree to store a list of Locations

Specified by:

makeQuadTree in interface IMapMaker

Parameters:

locationList - ---- list of locations of this pennmap

a quadtree that is associated with this pennmap

makeGraph

public IGraph makeGraph()

a graph that associated with this specific pennmap

getTree

public IQuadTree getTree()

get quadtree that associated with this map

Returns:

this quadtree

setTree

public void setTree(QuadTree tree)

set tree

Parameters:

tree-

getGraph

public Graph getGraph()

get graph

Returns:

the graph associated with the map

setGraph

public void setGraph(Graph graph)

set the graph

Parameters:

graph -

Returns:

the current location of user

setCurrentPoint

public void setCurrentPoint(Coordinate currentPoint)

set users current location

Parameters:

currentPoint -

getRoadList

public java.util.List<Road> getRoadList()

get road list or all roads

Returns:

the roadlist

setRoadList

public void setRoadList(java.util.List<Road> roadList)

set the roadlist to de destinated list

Parameters:

roadList -

getLocationList

public java.util.List<Location> getLocationList()

get all locations

Returns:

location list



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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD