Point2D GasStation -point: Point2D (is also the ID?) -x: double -brand: String -y: double -is24Hours: boolean +SmallForm()+MyPoint() +Point2D(x, y) +GasStation() +setX(x: double): void +GasStation(point Point2D, brand String, +setY(y: double): void is24Hours boolean) +getX(): double +setPoint(point Point2D): void +getY(): double +setBrand(brand String): void +distance(point: MyPoint): double +setIs24Hours(is24Hours boolean): void +distance(double x, double y): double +getPoint(): Point2D +distance(point: Point2d, point2: Point2d): double +getBrand(): String +getIs24Hours(): is24Hours GasStationList TreeMapFilters

-list: ArrayList

- +GasStationList()
- +getListDeepCopy(): ArrayList<GasStation> -- deep copy
- -sortVertically(): void
 -readData(): void

- -ratingsTreeMap: TreeMap
- -is24Hours: Set
- +getRatingsTreeMap(): TreeMap
- +getIs24Hours(): Set -readData(): void

Data data.txt and data2.txt files

GenericQuickSort

Utility Class only containing static methods

- +genericQuickSort(list,ArrayList<E>): void
- +genericQuickSort(list,ArrayList<E>, comparator Comparator<? super E>): void
- +quickSort(list, ArrayList<E>, first, int, last, int)
- +quickSort(list, ArrayList<E>, first, int, last, int, comparator Comparator<? super E>)
- +partition(list, ArrayList<E>, first, int, last, int)
- +partition(list, ArrayList<E>, first, int, last, int, comparator Comparator<? super E>)

GasStationComparator

+compare(gasStation1, GasStation, gasStation2, GasStation): int

(continued) SortByClosest

(continued) GasStationList

SortByClosest

Utility Class only containing static methods

- +sortByClosest(point Point2D, ratingFilter int, is24Hours boolean): ArrayList<GasStations>
- -filterByRating(stars, int)
- -filterBy24Hours(is24Hours, boolean)

View

-currentLocation: Point2D

-ratingFilter: int -is24Hours: boolean

-getCenterPane(): Pane -getRightPane(): Pane -getLeftPane(): Pane

-getBorderPane(): BorderPane

+start(): void +main():void

Help

Utility Class only containing static methods

+about

HelperClass

Utility Class only containing static methods

+getTxtFileAsList():ArrayList<String>

+writeLineToTxtFile(): void

+validatePositiveIntRange(s, String, x int, y int): int