Class roles and brief description

Edge class

Implements EdgeIn.

EdgeIn

Edge interface which represents the edge between two connected nodes on a specific label(line). Contains six methods, getters and setters for

Node

Implements NodeIn.

NodeIn

Node interface which represents a node on the multigraph. It contains a unique ID and a name (station name).

Multigraph ADT

Implements MultigraphIn.

MultigraphIn

The multigraph interface which represents the graph and holds all of the nodes and edges.

Search

A class responsible for finding the shortest route between two nodes and returning it as an ArrayList to the menu to output. It is also responsible for error checking (checkStationExists).

Menu

Menu is responsible for handling getting user input and displaying the result of a search.

MapParser

MapParser parses and tokenises data from the input file and generating the multigraph from it.

BadFileException?

MapParser throws this.

 A brief description of your diagram (approximately two pages) that: 

1. explains the role of each interface and each class in the design
2. explains the relationships between the interfaces and classes that you have identified
3. includes a brief description of each method that you have identified in each interface and class