

CSVLoader (String filepath)

Use case: Load Railway Data

Preconditions:

1. File on filepath exist
2. File format is correct (CSV file)

Postconditions:

1. Instance of TrainConnection, connection, is created (instance creation)

SearchConnection (List<TrainConnection> connections, String departureCity, String arrivalCity, String departureTime, String arrivalTime, String trainType, Double firstClassTicketPrice, Double secondClassTicketPrice)

Use case: Search Connection

Preconditions:

1. An instance of TrainConnections (List of all TrainConnection) already exist
2. All parameter are valid or null (and at least one exist in TrainConnections)

Postconditions:

1. Instance of TrainConnection, match, is created (that match the parameters for direct connection) (instance creation)

ConnectionSorter (List<TrainConnection> results)

Use case: Sort Results

Preconditions :

1. An instance of SearchCatalog (List of TrainConnection found) already exist

Postconditions:

1. Instance of TrainConnection, sorted, is created (with defined sorting method) (instance creation)

BuildTrips (List<TrainConnection> connections, String departureCity, String arrivalCity)

Use case: Search Multiple Connections

Preconditions:

1. List of TrainConnection already exist

2. departureCity and arrivalCity are valid and there is a TrainConnection with either departureCity or arrivalCity

Postconditions:

1. An instance of MultipleStopMetric, trip, has been created (instance creation)

MultipleStopsMetric (List<TrainConnection> connections)

Use case: Sort Results

Preconditions:

1. List of TrainConnection already exist

Postconditions:

1. An instance of MultipleStopMetric, trip, has been created (instance creation)