de.marioehkart.marioehkarte.Map Class Reference

This class represents a map of Carrera sections and their coordinates. More...

Public Member Functions

	Map (String directory) throws Exception
	Constructor for the **Map** class. Initializes the map with a specified directory for error logging.
void	**close** () throws Exception
	Closes the error log file.
Coordinates	**getCoordinates** (int section, double distance) throws Exception
	Gets the coordinates for a specific section and distance.
void	**feed** (String csv, String separator) throws Exception
	Reads a CSV file and populates the map with sections and rails.

Detailed Description

This class represents a map of Carrera sections and their coordinates.

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The **Map** class is used to create a map of the rail sections and their coordinates. It includes methods for reading a CSV file containing section data, getting coordinates for a specific section and distance, and handling errors.

See also

Section

Rail

Coordinates

Constructor & Destructor Documentation

◆ Map()

de.marioehkart.marioehkarte.Map.Map (String directory) throws Exception

Constructor for the **Map** class. Initializes the map with a specified directory for error logging.

Parameters

directory The directory where the error log file will be created.

Exceptions

Exception If an error occurs while creating the error log file.

The constructor initializes the sections and mappedSections arrays, and creates a FileWriter for logging errors. The error log file is created in the specified directory with the name "error.log". The sections array is used to store the sections of the map, and the mappedSections array is used to map section numbers to their corresponding indices in the sections array. The error log file is used to log any errors that occur during the execution of the program.

Member Function Documentation

◆ close()

void de.marioehkart.marioehkarte.Map.close ( ) throws Exception

Closes the error log file.

Exceptions

Exception If an error occurs while closing the error log file.

This method is used to close the error log file after all operations are completed. It ensures that any remaining data in the buffer is written to the file before closing it. The error log file is used to log any errors that occur during the execution of the program.

◆ feed()

void de.marioehkart.marioehkarte.Map.feed (String csv,
                                           String separator) throws Exception

Reads a CSV file and populates the map with sections and rails.

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Parameters

csv The path to the CSV file.

separator The separator used in the CSV file.

Exceptions

Exception If an error occurs while reading the CSV file.

This method reads a CSV file containing section data and populates the map with sections and rails.

◆ getCoordinates()

Coordinates de.marioehkart.marioehkarte.Map.getCoordinates (int	section,
	double distance) throws Exception

Gets the coordinates for a specific section and distance.

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Parameters

    section The section number.

    distance The distance along the section.

Returns

    The coordinates for the specified section and distance.

Exceptions

    Exception If an error occurs while getting the coordinates.

This method retrieves the coordinates for a specific section and distance. It uses the mappedSections array to find the corresponding section index, and then calls the position method of the **Section** class to get the coordinates.

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- /Users/bmmli.jl/Dokumente/PlatformIO/Projects/Marioehh-Kart_Interface/MarioehKartServer/MarioehKarte/src/de/marioehkart/marioehkarte/**Map.java**