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/**
 * @file ctc_train.js
 * @author Joey Damico
 * @date September 25, 2019
 * @brief CTC Controller Class for a Clock for the trains
 */
// Import the Custom Clock Class
import Clock from '../Trains/clock.js';
/**
 * CLASS Train
 * @brief Class that keeps track of the time since the start of the
application
 * @details This class is used to keep track and calculate how much
time has passed since the launch
 st of the program, it is used to keep the trains moving at the correct
times
 *
 * MEMBER VARIABLES
 * start_time -> The the games was started
*/
class Train {
    /**
     * constructor()
     * @brief The constructor for the Train class
     * @details This will initialize all the member variables when the
program is started
     * @param p_symbol -> The Train's Symbol
     * @param p_location -> The Trains Inital Location
     * @param p direction -> The Direction the train is traveling
     * @param p_block_size -> The size of the trains inital block
    constructor(p_symbol, p_location, p_direction, p_block_size) {
        this.clock = new Clock();
        this.clock.startClock();
        this.symbol = p_symbol;
        this.current location = p location;
        this.direction = p_direction;
        this.block_size = p_block_size;
        this.block_start = this.clock.getTimeFromStart();
        this route = true;
    // ---- END constructor() ----
```

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/**
     * get_symbol()
     * @brief Getter for the trains symbol
     * @returns The train symbol
     */
    get symbol() {
        return this symbol;
    // ---- END get_symbol() ----
    /**
     * update_location()
     * @brief Take in a new location and sets it for the train
     */
    update_location(new_next_location) {
        this.current location = new next location;
        this.block_start = this.clock.getTimeFromStart();
    // ---- END update_location() ----
    /**
     * can_update_location()
     * @brief Determines if the train can move to the next location
     */
    can_update_location() {
        // If The train has a route
        if (this.route) {
            // Check if the train has spent enough time in the curent
block
            if (this.clock.getTimeFromStart() - this.block_start >
this.block_size) {
                return true;
            }
            else {
                return false;
        }
    // ---- END can update location() ----
    /**
     * get_location()
     * @brief Getter for the current_location variable
     */
    get_location() {
        return this.current_location;
    // ---- END get_location() ----
```

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/**
     * get block size()
     * @brief Getter for the block_size variable
    get_block_size() {
        return this.block_size;
    // ---- END get_block_size() ----
    /**
     * set_block_size()
     * @brief Takes in the new block size, and sets the member
variable
     * @param n_size, the new size of the next block
     */
    set_block_size(n_size) {
        this.block_size = n_size;
    // ---- END set_block_size() ----
     * get_direction()
     * @brief Getter for the direction member variable
    get_direction() {
        return this direction;
    // ---- END get_direction() ----
    /**
     * get_route()
     * @brief Getter for the route member variable
     */
    get route() {
        return this route;
    // ---- END get route() ----
    /**
     * set route()
     * @brief Takes in the next route and sets the member variable
     * @param n route, the trains new route
     */
    set_route(n_route) {
        this route = n_route;
    // ---- END set_route() ----
}
// Export the panel to be drawn on the screen
```

export default Train;