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/**
 * @file MainLineTracks.jsx
 * @author Joey Damico
 * @date September 25, 2019
 * @brief React JSX Component Class that is for The Tracks of the Main
Line
 *
 * Extends the React Component Class and is the UI part of the Main
Line Tracks,
 * this class controls all the drawings of routes, and also gives a
visual representation
 * of that status of the interlocking
 */

// Import React Component
import React, { Component } from 'react';
// Import CSS style sheet
import '../css/Main_Line/mainLine.css';

/**
 * The React JSX Component Class for the Tracks in the Main Line
portion
 *
 * This class is a JSX React Component for the Main Line Tracks, this
will control all the UI for the comonent,
 * showing what blocks are occupied by a train
 */
class MainLineTracks extends Component {
  /**
   * State
   * @brief Object that holds the state or status information for
the component
   *
   * This object holds all the information for the tracks that is
required to display the routes
   * correctly
   *
   * Anything that has "this.props." is passed down from the CTC
interlocking class
   */
  state = {
    // Symbols
    symbol_sterling_sf_1: this.props.symbols.symbol_sterling_sf_1,
    symbol_sterling_hilburn_2:
this.props.symbols.symbol_sterling_hilburn_2,
    symbol_hilburn_sf_2: this.props.symbols.symbol_hilburn_sf_2,
    symbol_hilburn_yardWest:
this.props.symbols.symbol_hilburn_yardWest,
    symbol_hilburn_yardEast:

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this.props.symbols.symbol_hilburn_yardEast,
    symbol_sf_wc_1: this.props.symbols.symbol_sf_wc_1,
    symbol_sf_wc_2: this.props.symbols.symbol_sf_wc_2,
    symbol_wc_yard: this.props.symbols.symbol_wc_yard,
    symbol_wc_ridgewood_1:
this.props.symbols.symbol_wc_ridgewood_1,
    symbol_wc_ridgewood_2:
this.props.symbols.symbol_wc_ridgewood_2,
    symbol_wc_ridgewood_3:
this.props.symbols.symbol_wc_ridgewood_3,
    // Second Row
    symbol_ridgewood_suscon_1:
this.props.symbols.symbol_ridgewood_suscon_1,
    symbol_ridgewood_suscon_2:
this.props.symbols.symbol_ridgewood_suscon_2,
    symbol_suscon_mill_1: this.props.symbols.symbol_suscon_mill_1,
    symbol_suscon_mill_2: this.props.symbols.symbol_suscon_mill_2,
    symbol_mill_westSecaucus_1:
this.props.symbols.symbol_mill_westSecaucus_1,
    symbol_mill_westSecaucus_2:
this.props.symbols.symbol_mill_westSecaucus_2,
    symbol_westSecaucus_laurel_1:
this.props.symbols.symbol_westSecaucus_laurel_1,
    symbol_westSecaucus_laurel_2:
this.props.symbols.symbol_westSecaucus_laurel_2,
    symbol_laurel_westEnd_1:
this.props.symbols.symbol_westEnd_laurel_1,
    symbol_laurel_westEnd_2:
this.props.symbols.symbol_westEnd_laurel_2,
    symbol_laurel_westEnd_3:
this.props.symbols.symbol_westEnd_laurel_3,
    symbol_laurel_westEnd_4:
this.props.symbols.symbol_westEnd_laurel_4,

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    // Blocks

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    westEnd_laurel_1: this.props.blocks.block_westEnd_laurel_1,
    westEnd_laurel_2: this.props.blocks.block_westEnd_laurel_2,
    westEnd_laurel_3: this.props.blocks.block_westEnd_laurel_3,
    westEnd_laurel_4: this.props.blocks.block_westEnd_laurel_4,

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    laurel_westSecaucus_1:

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this.props.blocks.block_laurel_westSecaucus_1,
    laurel_westSecaucus_2:
this.props.blocks.block_laurel_westSecaucus_2,

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    mill_westSecaucus_1:

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this.props.blocks.block_mill_westSecaucus_1,
    mill_westSecaucus_2:
this.props.blocks.block_mill_westSecaucus_2,

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        suscon_mill_1: this.props.blocks.block_suscon_mill_1,
        suscon_mill_2: this.props.blocks.block_suscon_mill_2,

        ridgewood_suscon_1:
this.props.blocks.block_ridgewood_suscon_1,
        ridgewood_suscon_2:
this.props.blocks.block_ridgewood_suscon_2,

        wc_ridgewood_3: this.props.blocks.block_wc_ridgewood_3,
        wc_ridgewood_1: this.props.blocks.block_wc_ridgewood_1,
        wc_ridgewood_2: this.props.blocks.block_wc_ridgewood_2,

        sf_wc_1: this.props.blocks.block_sf_wc_1,
        sf_wc_2: this.props.blocks.block_sf_wc_2,

        hilburn_sf: this.props.blocks.block_hilburn_sf,

        sterling_sf: this.props.blocks.block_sterling_sf,
        sterling_hilburn: this.props.blocks.block_sterling_hilburn,

        //Yard Leads
        hilburn_yard_west: this.props.blocks.block_hilburn_yard_west,
        hilburn_yard_east: this.props.blocks.block_hilburn_yard_east,
        wc_yard: this.props.blocks.block_wc_yard
    };

    /**
     * componentWillReceiveProps()
     * @brief Function that updates the state of the component
     *
     * The data that is being changed is passed down from the CTC
classes in the simulation backend
     *
     * @param nextProps, the new data to set the component state too
     */
    componentWillReceiveProps(nextProps){
        this.setState({
            // Symbols
            // Symbols
            symbol_sterling_sf_1:
nextProps.symbols.symbol_sterling_sf_1,
            symbol_sterling_hilburn_2:
nextProps.symbols.symbol_sterling_hilburn_2,
            symbol_hilburn_sf_2:
nextProps.symbols.symbol_hilburn_sf_2,
            symbol_hilburn_yardWest:
nextProps.symbols.symbol_hilburn_yardWest,
            symbol_hilburn_yardEast:
nextProps.symbols.symbol_hilburn_yardEast,

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        symbol_sf_wc_1: nextProps.symbols.symbol_sf_wc_1,
        symbol_sf_wc_2: nextProps.symbols.symbol_sf_wc_2,
        symbol_wc_yard: nextProps.symbols.symbol_wc_yard,
        symbol_wc_ridgewood_1:
nextProps.symbols.symbol_wc_ridgewood_1,
        symbol_wc_ridgewood_2:
nextProps.symbols.symbol_wc_ridgewood_2,
        symbol_wc_ridgewood_3:
nextProps.symbols.symbol_wc_ridgewood_3,
        // Second Row
        symbol_ridgewood_suscon_1:
nextProps.symbols.symbol_ridgewood_suscon_1,
        symbol_ridgewood_suscon_2:
nextProps.symbols.symbol_ridgewood_suscon_2,
        symbol_suscon_mill_1:
nextProps.symbols.symbol_suscon_mill_1,
        symbol_suscon_mill_2:
nextProps.symbols.symbol_suscon_mill_2,
        symbol_mill_westSecaucus_1:
nextProps.symbols.symbol_mill_westSecaucus_1,
        symbol_mill_westSecaucus_2:
nextProps.symbols.symbol_mill_westSecaucus_2,
        symbol_westSecaucus_laurel_1:
nextProps.symbols.symbol_westSecaucus_laurel_1,
        symbol_westSecaucus_laurel_2:
nextProps.symbols.symbol_westSecaucus_laurel_2,
        symbol_laurel_westEnd_1:
nextProps.symbols.symbol_laurel_westEnd_1,
        symbol_laurel_westEnd_2:
nextProps.symbols.symbol_laurel_westEnd_2,
        symbol_laurel_westEnd_3:
nextProps.symbols.symbol_laurel_westEnd_3,
        symbol_laurel_westEnd_4:
nextProps.symbols.symbol_laurel_westEnd_4,

        // Blocks
        westEnd_laurel_1: nextProps.blocks.block_westEnd_laurel_1,
        westEnd_laurel_2: nextProps.blocks.block_westEnd_laurel_2,
        westEnd_laurel_3: nextProps.blocks.block_westEnd_laurel_3,
        westEnd_laurel_4: nextProps.blocks.block_westEnd_laurel_4,

        laurel_westSecaucus_1:
nextProps.blocks.block_laurel_westSecaucus_1,
        laurel_westSecaucus_2:
nextProps.blocks.block_laurel_westSecaucus_2,

        mill_westSecaucus_1:
nextProps.blocks.block_mill_westSecaucus_1,
        mill_westSecaucus_2:
nextProps.blocks.block_mill_westSecaucus_2,

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        suscon_mill_1: nextProps.blocks.block_suscon_mill_1,
        suscon_mill_2: nextProps.blocks.block_suscon_mill_2,

        ridgewood_suscon_1:
nextProps.blocks.block_ridgewood_suscon_1,
        ridgewood_suscon_2:
nextProps.blocks.block_ridgewood_suscon_2,

        wc_ridgewood_3: nextProps.blocks.block_wc_ridgewood_3,
        wc_ridgewood_1: nextProps.blocks.block_wc_ridgewood_1,
        wc_ridgewood_2: nextProps.blocks.block_wc_ridgewood_2,

        sf_wc_1: nextProps.blocks.block_sf_wc_1,
        sf_wc_2: nextProps.blocks.block_sf_wc_2,

        hilburn_sf: nextProps.blocks.block_hilburn_sf,

        sterling_sf: nextProps.blocks.block_sterling_sf,
        sterling_hilburn: nextProps.blocks.block_sterling_hilburn,

        //Yard Leads
        hilburn_yard_west:
nextProps.blocks.block_hilburn_yard_west,
        hilburn_yard_east:
nextProps.blocks.block_hilburn_yard_east,
        wc_yard: nextProps.blocks.block_wc_yard
    });
}
// ---- END componentWillReceiveProps() ----

/**
 * render()
 * @brief standard React function that draws the interlocking to
the screen
 */
render() {
    return (
        <div>
            { /* Tags */ }
            <div className="wc_yard_tag">Waldwick Yard</div>
            <div className="hilburn_yard_tag">Hilburn Yard</div>

            { /* Symbols */ }
            { /* First Row */ }
            <div
className="symbol_sterling_sf_1">{this.state.symbol_sterling_sf_1}</
div>

                <div
className="symbol_sterling_hilburn_2">{this.state.symbol_sterling_hilb

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urn_2}</div>
    <div
className="symbol_hilburn_sf_2">{this.state.symbol_hilburn_sf_2}</div>
    <div
className="symbol_hilburn_yardWest">{this.state.symbol_hilburn_yardWest}</div>
    <div
className="symbol_hilburn_yardEast">{this.state.symbol_hilburn_yardEast}</div>
    <div
className="symbol_sf_wc_1">{this.state.symbol_sf_wc_1}</div>
    <div
className="symbol_sf_wc_2">{this.state.symbol_sf_wc_2}</div>
    <div
className="symbol_wc_yard">{this.state.symbol_wc_yard}</div>
    <div
className="symbol_wc_ridgewood_1">{this.state.symbol_wc_ridgewood_1}</div>
    <div
className="symbol_wc_ridgewood_2">{this.state.symbol_wc_ridgewood_2}</div>
    <div
className="symbol_wc_ridgewood_3">{this.state.symbol_wc_ridgewood_3}</div>
    {/* Second Row */}
    <div
className="symbol_ridgewood_suscon_1">{this.state.symbol_ridgewood_suscon_1}</div>
    <div
className="symbol_ridgewood_suscon_2">{this.state.symbol_ridgewood_suscon_2}</div>
    <div
className="symbol_suscon_mill_1">{this.state.symbol_suscon_mill_1}</div>
    <div
className="symbol_suscon_mill_2">{this.state.symbol_suscon_mill_2}</div>
    <div
className="symbol_mill_westSecaucus_1">{this.state.symbol_mill_westSecaucus_1}</div>
    <div
className="symbol_mill_westSecaucus_2">{this.state.symbol_mill_westSecaucus_2}</div>
    <div
className="symbol_westSecaucus_laurel_1">{this.state.symbol_westSecaucus_laurel_1}</div>
    <div
className="symbol_westSecaucus_laurel_2">{this.state.symbol_westSecaucus_laurel_2}</div>
    <div

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className="symbol_laurel_westEnd_4">{this.state.symbol_laurel_westEnd_
3}</div>
    <div
className="symbol_laurel_westEnd_3">{this.state.symbol_laurel_westEnd_
1}</div>
    <div
className="symbol_laurel_westEnd_1">{this.state.symbol_laurel_westEnd_
2}</div>
    <div
className="symbol_laurel_westEnd_2">{this.state.symbol_laurel_westEnd_
4}</div>

    {/* First Row */}
    {/* West End to Laurel */}
    <div className="m_westEnd_laurel_1"
style={{background: this.state.westEnd_laurel_2}}></div>
    <div className="m_westEnd_laurel_2"
style={{background: this.state.westEnd_laurel_4}}></div>
    <div className="m_westEnd_laurel_3"
style={{background: this.state.westEnd_laurel_1}}></div>
    <div className="m_westEnd_laurel_4"
style={{background: this.state.westEnd_laurel_3}}></div>

    {/* Laurel to West Secaucus */}
    <div className="m_laurel_westSecaucus_1"
style={{background: this.state.laurel_westSecaucus_1}}></div>
    <div className="m_laurel_westSecaucus_2"
style={{background: this.state.laurel_westSecaucus_2}}></div>

    {/* West Secaucus To Mill */}
    <div className="m_westSecaucus_mill_1"
style={{background: this.state.mill_westSecaucus_1}}></div>
    <div className="m_westSecaucus_mill_2"
style={{background: this.state.mill_westSecaucus_2}}></div>

    {/* Mill to Suscon */}
    <div className="m_suscon_mill_1" style={{background:
this.state.suscon_mill_1}}></div>
    <div className="m_suscon_mill_2" style={{background:
this.state.suscon_mill_2}}></div>

    {/* Suscon to Ridgewood Junction */}
    <div className="m_ridgewood_suscon_1"
style={{background: this.state.ridgewood_suscon_1}}></div>
    <div className="m_ridgewood_suscon_2"
style={{background: this.state.ridgewood_suscon_2}}></div>

    {/* Ridgewood Junction to Screen */}
    <div className="m_screen_ridgewood_3"
style={{background: this.state.wc_ridgewood_3}}></div>

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        <div className="m_screen_ridgewood_1"
style={{background: this.state.wc_ridgewood_1}}></div>
        <div className="m_screen_ridgewood_2"
style={{background: this.state.wc_ridgewood_2}}></div>

        {/* Second Row */}
        {/* Screen to WC */}
        <div className="m_wc_screen_3" style={{background:
this.state.wc_ridgewood_3}}></div>
        <div className="m_wc_screen_1" style={{background:
this.state.wc_ridgewood_1}}></div>
        <div className="m_wc_screen_2" style={{background:
this.state.wc_ridgewood_2}}></div>

        <div className="m_wc_yard " style={{background:
this.state.wc_yard}}></div>

        {/* WC to SF */}
        <div className="m_sf_wc_1" style={{background:
this.state.sf_wc_1}}></div>
        <div className="m_sf_wc_2" style={{background:
this.state.sf_wc_2}}></div>

        {/* SF to Hilburn */}
        <div className="m_hilburn_sf" style={{background:
this.state.hilburn_sf}}></div>

        {/* Hilburn Yard */}
        <div className="m_hilburn_yard_west"
style={{background: this.state.hilburn_yard_west}}></div>
        <div className="m_hilburn_yard_east"
style={{background: this.state.hilburn_yard_east}}></div>

        {/* SF to Sterling [Track 1]*/}
        <div className="m_sterling_sf_1" style={{background:
this.state.sterling_sf}}></div>

        {/* Hilburn to Sterling [Track 2] */}
        <div className="m_sterling_hilburn_2"
style={{background: this.state.sterling_hilburn}}></div>
        </div>
    );
}
// ---- END render() ----
}

// Export the tracks to be drawn on the screen
export default MainLineTracks;

```