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```
import {TimeSlider} from './timeslider.js';
1
2
    import {Log} from './log.js';
3
    import {Graph} from './loggraph.js';
5
    export class VideoPlayer {
6
7
        constructor(div) {
8
           this.div = div;
9
            this.videoLoaded = false;
10
            this.displayRequested = false;
11
            this.initialized = false;
12
            this.lastUpdate = new Date();
        }
13
14
15
        loadVideo(src) {
16
            // Get the video object
17
            this.video = this.div.getElementsByClassName('video')[0];
18
19
            // Load the video
20
            this.video.src = src;
21
22
            // Add an event listener to track when the video finishes loading since it can take some time
            this.video.addEventListener('loadeddata',() => {
23
                this.videoLoaded = true;
24
25
                this.initializePlayer();
26
            })
27
28
        }
29
        displayPlayer(log) {
30
31
            console.log("log",log)
            this.startTime = log.startTime;
32
33
            this.log = log;
34
            this.displayRequested = true;
35
            this.initializePlayer();
36
37
38
        initializePlayer() {
39
40
            if (this.videoLoaded && this.displayRequested && !this.initialized) {
41
42
                // This variable prevents the video from initializing again if user backs away from the video and
43
    returns
                this.initialized = true;
44
45
46
                // Display the video
47
                this.div.getElementsByClassName('videoLoading')[0].classList.add('hide');
48
                this.video.classList.remove('hide');
49
50
                // Set up the graph and render the first frame
51
                this.graph = new Graph(document.getElementById('graph'),this.log,this.startTime,30000);
52
                this.graph.renderGraph(this.startTime);
53
54
                // Set up the slider
55
                this.slider = new
56
    TimeSlider(this.video,document.getElementById('playbackControl'),this.startTime,this.video.duration*1000);
57
58
                // When the slider updates the start time update startTime and rerender the graph
59
                this.slider.onNewStartTime = (newTime) => {
                    const delta = newTime.getTime() - this.startTime.getTime();
60
                    this.startTime = newTime;
```

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```
62
                    this.log.incrementTime(delta);
63
                    this.graph.renderGraph(this.slider.currentTime);
64
                }
65
                // When the slider's time changes (this happens when seeking) rerender the graph so it matches
66
67
                this.slider.onTimeUpdate = (newTime) => {
68
                    this.graph.renderGraph(newTime)
69
70
                // Update the date at the top of the player
71
                document.getElementById('date').innerHTML = `${this.startTime.getMonth() +
72
    1}/${this.startTime.getDate()}/${this.startTime.getFullYear()}`;
73
74
75
                // Listen for keybaord commands
76
                addEventListener('keyup', this.handleKeyPress.bind(this))
77
78
                // Start everything animating
79
                window.requestAnimationFrame(this.animate.bind(this));
80
81
            }
82
83
        }
84
85
        animate() {
86
            if (!this.video.paused) {
87
                this.slider.setTime(this.video.currentTime);
                this.graph.renderGraph(new Date(this.startTime.getTime() + Math.round(this.video.currentTime * 1000)))
88
89
            }
            window.requestAnimationFrame(this.animate.bind(this));
90
91
        }
92
93
        handleKeyPress(e) {
94
            if (e.keyCode == 38 || e.keyCode == 40) {
95
                const count = e.keyCode == 38 ? 1 : -1;
96
                this.log.addData(count, this.slider.currentTime);
97
                this.graph.renderGraph(this.slider.currentTime)
98
99
                if (this.onLogChange) this.onLogChange(this.log);
100
            }
}
```