

JavaScript Timeline Dynamic and Interactive mini Project Source Code

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const timeInd = document.querySelector('.timeInd');
const eventInfo = document.querySelector('.eventInfo');
const orderListEvents = eventInfo.querySelector('ol');
const orderListInd = timeInd.querySelector('ol');
const prev = document.querySelector('.prev');
const next = document.querySelector('.next');
let move = 100;
const page = {
  ind: [],
  info: [],
  pos: 0
};
const myData = [];
genEvents(); // makes myData
outputTimeLine();
next.addEventListener('click', (e) => {
  let box = orderListInd.getBoundingClientRect();
  page.pos -= move;
  if ((box.left - box.width) < (myData.length * move * -1) + (move * 2)) {
    page.pos = (myData.length * move * -1) + (move * 3);
  }
  setValue(orderListInd, 'translateX', page.pos + 'px');
})
prev.addEventListener('click', (e) => {
  let box = orderListInd.getBoundingClientRect();
  page.pos += move;
  if (box.left > move) {
    page.pos = move;
  }
  setValue(orderListInd, 'translateX', page.pos + 'px');
})

function setValue(ele, prop, val) {
  ele.style["transform"] = prop + "(" + val + "px";
}

function showEvent(val) {
  page.ind.forEach((el, index) => {
    if (index <= (val + 1)) {
      el.classList.add('done');
    } else {
      el.classList.remove('done');
    }
  })
  if (index == val) {
    el.classList.add('active');
  }
}
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    } else {
        el.classList.remove('active');
    }
})
page.info.forEach((el, index) => {
    if (index == val) {
        el.style.opacity = 1;
    } else {
        el.style.opacity = 0;
    }
})
}

function outputTimeline() {
    sortData(myData, 'val');
    myData.forEach((el, index) => {
        const li1 = document.createElement('li');
        let tempDate = new Date(el.val);
        let tempHolder = tempDate.toDateString().split(' ');
        tempHolder[2] = parseInt(tempHolder[2]);
        li1.style.left = move * index + 'px';
        li1.textContent = tempHolder.slice(1, 3).join('. ');
        li1.addEventListener('click', (e) => {
            showEvent(index);
        })
        orderListInd.append(li1);
        const li = document.createElement('li');
        orderListEvents.append(li);
        li.style.opacity = 0;
        const div1 = document.createElement('div');
        div1.style.fontSize = '2em';
        div1.textContent = el.title.toUpperCase();
        li.append(div1);
        div1.style.padding = '10px';
        const div3 = document.createElement('div');
        //div3.textContent = tempDate.toISOString().substr(0,10);
        div3.textContent = tempDate.toDateString();
        div3.style.fontSize = '1.4em';
        div3.style.padding = '10px';
        div3.style.backgroundColor = 'black';
        div3.style.color = 'white';
        li.append(div3);
        const div2 = document.createElement('div');
        div2.innerHTML = '';
        div2.innerHTML += el.content;
        div2.style.padding = '10px';
        li.append(div2);
        const hr = document.createElement('hr');
        li.append(hr);
        page.ind.push(li1);
        page.info.push(li);
        showEvent(0);
    })
}

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        const letters = Math.floor(Math.random() * 7) + 2;
        for (let i = 0; i < letters; i++) {
            let pos = Math.floor(Math.random() * charsRan.length);
            result += charsRan.charAt(pos);
        }
        val--;
        result += ' ';
    }
    return (result);
}

<!DOCTYPE html>
<html>

<head>
    <title>Timeline Project</title>
    <link rel="stylesheet" href="style.css">
</head>

<body>
    <div class="container">
        <div class="timeInd">
            <ol></ol>
        </div>
        <div class="prev btn">Prev</div>
        <div class="next btn">Next</div>
        <div class="eventInfo">
            <ol></ol>
        </div>
    </div>
    <script src="app.js"></script>
</body>

</html>
@import url('https://fonts.googleapis.com/css2?family=Merriweather&display=swap');

body {
    background: #F1F1F1;
    font-family: 'Merriweather', serif;
}

.container {
    padding: 10px;
    width: 90%;
    min-width: 600px;
    margin: auto;
    height: 100vh;
    overflow: hidden;
}

.eventInfo {
    position: relative;
    top: 80px;

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    left: 0;
    width: 100%;
}

.eventInfo ol,
.timeInd ol {
    list-style-type: none;
    margin: 0;
    padding: 0;
}

.eventInfo li {
    padding: 5%;
    position: absolute;
    width: 90%;
    left: 0;
    top: 50px;
    border: 1px solid #ddd;
    transition: opacity 1s ease-in-out;
}

.eventInfo img {
    float: left;
    max-width: 300px;
    padding: 5px;
    border: 5px solid white;
    margin: 5px;
}

.eventInfo img::after {
    clear: both;
}

.timeInd {
    position: relative;
    left: 50px;
    top: 50px;
}

.timeInd li {
    position: absolute;
    text-align: center;
    top: 0;
    left: 0;
    width: 80px;
    height: 60px;
    border: 1px solid #33aa55;
    border-radius: 50%;
    line-height: 60px;
    background-color: seashell;
    color: black;
    cursor: pointer;
}

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    transition: all ease-in-out .5s;
}

.timeInd li:before {
    content: "";
    position: absolute;
    width: 300px;
    height: 10px;
    top: 25px;
    left: -300px;
    z-index: -999;
    background-color: #ddd;
    transition: all ease-in-out .5s;
}

.done.active {
    background-color: green;
    color: white;
}

.done:before {
    background-color: green !important;
}

.btn {
    position: absolute;
    top: 10px;
    width: 100px;
    height: 50px;
    background-color: steelblue;
    border-radius: 20px;
    text-align: center;
    line-height: 50px;
    color: white;
    cursor: pointer;
}

.btn:hover {
    opacity: 0.5;
}

.prev {
    left: 60px;
}

.next {
    right: 60px;
}
```