*файл index.html*

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>Document</title>

</head>

<body>

<div id="root"></div>

<script src="./tree.js"></script>

</body>

</html>

*файл tree.js*

const data = {

services: [

{

id: 1,

head: null,

name: "Проф.осмотр",

node: 0,

price: 100.0,

sorthead: 20,

},

{

id: 2,

head: null,

name: "Хирургия",

node: 1,

price: 0.0,

sorthead: 10,

},

{

id: 3,

head: 2,

name: "Удаление зубов",

node: 1,

price: 0.0,

sorthead: 10,

},

{

id: 4,

head: 3,

name: "Удаление зуба",

node: 0,

price: 800.0,

sorthead: 10,

},

{

id: 5,

head: 3,

name: "Удаление 8ого зуба",

node: 0,

price: 1000.0,

sorthead: 30,

},

{

id: 6,

head: 3,

name: "Удаление осколка зуба",

node: 0,

price: 2000.0,

sorthead: 20,

},

{

id: 7,

head: 2,

name: "Хирургические вмешательство",

node: 0,

price: 200.0,

sorthead: 10,

},

{

id: 8,

head: 2,

name: "Имплантация зубов",

node: 1,

price: 0.0,

sorthead: 20,

},

{

id: 9,

head: 8,

name: "Коронка",

node: 0,

price: 3000.0,

sorthead: 10,

},

{

id: 10,

head: 8,

name: "Слепок челюсти",

node: 0,

price: 500.0,

sorthead: 20,

},

],

};

const root = document.querySelector("#root");

*// функция построения дерева*

function buildTree(services, parentId = null, level = 0) {

const filteredServices = services.filter(

(service) => service.head === parentId

);

const sortedServices = filteredServices.sort(

(a, b) => a.sorthead - b.sorthead

);

sortedServices.forEach((service) => {

const nodeSymbol = service.node === 1 ? "+" : "-";

const node = document.createElement("div");

node.innerText = `${nodeSymbol} ${service.name}`;

node.style.marginLeft = 15 \* level + "px";

root.append(node);

if (service.node === 1) {

buildTree(services, service.id, level + 1);

}

});

return;

}

buildTree(data.services);