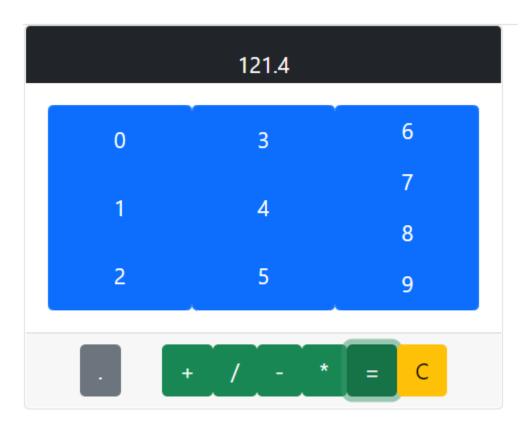
# TALLINNA TEHNIKAÜLIKOOL School of Information Technologies

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# **HOMEWORK 2 – CALCULATOR ON JS**

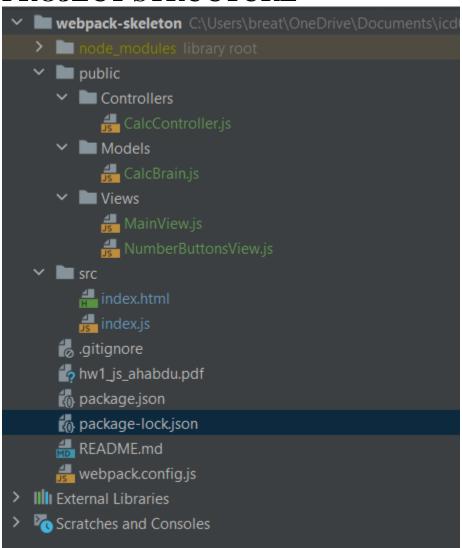
JavaScript

# **SCREENSHOOTS**



You can check my code below or in my school repository: <a href="https://gitlab.cs.ttu.ee/ahabdu/icd0006-21-22-s">https://gitlab.cs.ttu.ee/ahabdu/icd0006-21-22-s</a>

## PROJECT STRUCTURE



## HTML CODE

## **JAVASCRIPT CODE:**

## Index.js

```
import CalcBrain from "../public/Models/CalcBrain";
import MainView from "../public/Views/MainView";
import NumberButtonsView from "../public/Views/NumberButtonsView";
import CalcController from "../public/Controllers/CalcController";
let btnsView = NumberButtonsView();
let viewer = MainView(btnsView);
document.querySelector('.container').appendChild(viewer)
document.querySelector('#quickmath').addEventListener("click", (e) => {
document.querySelector('#dot').addEventListener("click", (e) => {
   my controller.setValues(null, true)
document.querySelector('#minusik').onclick = function () {
   my controller.doCalculations('minus')
document.querySelector('#multiply').onclick = function () {
document.querySelector('#todefault').onclick = function () {
   my controller.toDefaultValues()
document.querySelector('#equals').onclick = function () {
   my controller.doCalculations(my calc.getLastOperation());
```

#### Calcbrain.js

```
export default class CalcBrain {
   getNumberOne() {
   setNumberOne(num) {
   getNumberTwo() {
   setNumberTwo(num) {
   getAdditionalNumber() {
   setAdditionalNumber(num) {
```

```
doMath(operation) {
            this.setMinusTrueOthersFalse()
        } else if (operation == 'plus') {
            console.log("ples")
            this.setPlusTrueOthersFalse()
parseFloat(this.numberTwo);
                this.result = parseFloat(this.result) +
            this.setDivideTrueOthersFalse()
                this.result = parseFloat(this.numberOne) /
                this.result = parseFloat(this.result) /
parseFloat(this.additionalNumber);
                this.result = parseFloat(this.numberOne) *
parseFloat(this.numberTwo);
```

```
this.result = parseFloat(this.result) *
getMultiply() {
getDivide() {
getLastOperation() {
setPlusTrueOthersFalse() {
setMinusTrueOthersFalse() {
setMultiplyTrueOthersFalse() {
setDivideTrueOthersFalse() {
```

```
this.divide = true;
this.lastOperation = 'divide'

this.plus = false;
this.minus = false;
this.multiply = false;
}
```

#### MainView.js

```
export default function MainView(btns){
   content.append(spanDiv)
   spanDiv.append(span)
   let body = document.createElement('div');
   content.append(body)
   body.append(btnGroup);
   let footer = document.createElement('div');
   let plus = document.createElement('button');
   let minus = document.createElement('button');
   let multiply = document.createElement('button');
   let divide = document.createElement('button');
```

```
todefault.innerText = "C";

let dot = document.createElement('button');
dot.classList = "btn btn-secondary";
dot.style.marginRight = "30px";
dot.id = "dot";
dot.innerText = ".";

footer.append(dot)
footer.append(plus)
footer.append(divide)
footer.append(minus)
footer.append(multiply)
footer.append(equals)
footer.append(todefault)
content.append(footer)

return content;
}
```

#### NumberButtonsView.js

#### CalcController.js

```
export default class CalcController {
    constructor(calcBrain) {
            document.querySelector("span").innerText = "";
        if (this.calc.getNumberOne() == null) {
        } else if (this.calc.getPlus() == false && this.calc.getMinus() ==
false && this.calc.getDivide() == false
            && this.calc.getMultiply() == false && this.calc.getNumberOne()
            && this.calc.getResult() == null) {
            if (dot == true && this.calc.getNumberOne().indexOf(".") <= -1) {</pre>
                this.calc.setNumberOne(numStr)
                this.showNum(numStr)
                 let numStr = this.calc.getNumberOne() + "" + number;
                this.calc.setNumberOne(numStr)
        if (this.calc.getNumberTwo() == null && (this.calc.getPlus() == true
|| this.calc.getMinus() == true
            || this.calc.getDivide() == true || this.calc.getMultiply() ==
true) && this.calc.getResult() == null) {
        } else if ((this.calc.getPlus() == true || this.calc.getMinus() ==
true || this.calc.getDivide() == true
            || this.calc.getMultiply() == true) && this.calc.getNumberTwo()
            if (dot == true && this.calc.getNumberTwo().indexOf(".") <= -1) {
   let numStr = this.calc.getNumberTwo() + ".";</pre>
                this.calc.setNumberTwo(numStr)
                 let numStr = this.calc.getNumberTwo() + "" + number;
```

```
this.calc.setNumberTwo(numStr);
       if (this.calc.getResult() != null && (this.calc.getPlus() == true | |
this.calc.getMinus() == true
               || this.calc.getDivide() == true || this.calc.getMultiply()
           && this.calc.getAdditionalNumber() == null) {
           this.calc.setAdditionalNumber(number + "");
                || this.calc.getDivide() == true || this.calc.getMultiply()
           && this.calc.getAdditionalNumber() != null) {
           if (dot == true && this.calc.getAdditionalNumber().indexOf(".")
                let numStr = this.calc.getAdditionalNumber() + ".";
                this.calc.setAdditionalNumber(numStr)
                this.calc.setAdditionalNumber(numStr);
               this.showNum(numStr)
   doCalculations(operation) {
       let res = this.calc.doMath(operation)
       this.calc.setDefault();
```