**LAPORAN TUGAS**

**PERANCANGAN DAN PEROGRAMAN WEB**

**PERTEMUAN III**

**PEMBUATAN TAMPILAN KALKULATOR**

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**PROGRAM STUDI S1 SOFTWARE ENGINEERING FAKULTAS INFORMATIKA**

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1. **CODE PROGRAM**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

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

<title>Kalkulator iOS Style</title>

<style>

\* {

box-sizing: border-box;

font-family: -apple-system, BlinkMacSystemFont, "SF Pro Display", sans-serif;

user-select: none;

margin: 0;

padding: 0;

}

body {

height: 100vh;

display: flex;

align-items: center;

justify-content: center;

background: #eaeaea;

}

.calculator {

background: linear-gradient(180deg, #1e1e1e 0%, #2a2a2a 100%);

border-radius: 42px;

width: 360px;

padding: 25px 18px;

display: flex;

flex-direction: column;

justify-content: space-between;

box-shadow: 0 20px 40px rgba(0, 0, 0, 0.45);

border: 1px solid rgba(255,255,255,0.05);

position: relative;

}

.display {

color: white;

font-size: 68px;

text-align: right;

font-weight: 300;

margin: 10px 12px 35px 12px;

overflow-x: auto;

letter-spacing: 1px;

}

.buttons {

display: grid;

grid-template-columns: repeat(4, 1fr);

grid-gap: 14px;

justify-content: center;

}

button {

height: 75px;

width: 75px;

border: none;

border-radius: 50%;

font-size: 30px;

font-weight: 500;

cursor: pointer;

display: flex;

align-items: center;

justify-content: center;

transition: background-color 0.15s ease;

}

/\* Warna tombol \*/

.btn-num {

background: #333333;

color: white;

}

.btn-num:hover {

background: #444;

}

.btn-func {

background: #a5a5a5;

color: black;

font-weight: 600;

}

.btn-func:hover {

background: #bfbfbf;

}

.btn-op {

background: #ff9f0a;

color: white;

font-weight: 600;

}

/\* Saat operator aktif \*/

.btn-op.active {

background: #fff;

color: #ff9f0a;

}

.btn-zero {

grid-column: span 2;

border-radius: 38px;

width: 100%;

justify-content: flex-start;

padding-left: 35px;

}

/\* Highlight cover \*/

.calculator::before {

content: "";

position: absolute;

width: 360px;

height: 580px;

border-radius: 42px;

background: linear-gradient(145deg, rgba(255,255,255,0.05), rgba(0,0,0,0.15));

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

z-index: -1;

box-shadow: 0 18px 35px rgba(0,0,0,0.4);

}

@media (max-width: 400px) {

.calculator {

width: 92%;

padding: 22px 12px;

}

button {

height: 65px;

width: 65px;

font-size: 26px;

}

}

</style>

</head>

<body>

<div class="calculator">

<div class="display" id="display">0</div>

<div class="buttons">

<button class="btn-func" id="clear">AC</button>

<button class="btn-func" id="sign">±</button>

<button class="btn-func" id="percent">%</button>

<button class="btn-op" data-op="/">÷</button>

<button class="btn-num" data-num="7">7</button>

<button class="btn-num" data-num="8">8</button>

<button class="btn-num" data-num="9">9</button>

<button class="btn-op" data-op="\*">×</button>

<button class="btn-num" data-num="4">4</button>

<button class="btn-num" data-num="5">5</button>

<button class="btn-num" data-num="6">6</button>

<button class="btn-op" data-op="-">−</button>

<button class="btn-num" data-num="1">1</button>

<button class="btn-num" data-num="2">2</button>

<button class="btn-num" data-num="3">3</button>

<button class="btn-op" data-op="+">+</button>

<button class="btn-num btn-zero" data-num="0">0</button>

<button class="btn-num" data-num=".">.</button>

<button class="btn-op" id="equals">=</button>

</div>

</div>

<script>

const display = document.getElementById('display');

const operatorButtons = document.querySelectorAll('.btn-op');

let current = '0', previous = '', operator = '', resetNext = false;

const updateDisplay = () => {

display.textContent = current.length > 10 ? parseFloat(current).toExponential(3) : current;

}

// Clear active operator state

const clearActiveOps = () => operatorButtons.forEach(btn => btn.classList.remove('active'));

document.querySelectorAll('[data-num]').forEach(btn => {

btn.addEventListener('click', () => {

if (resetNext) {

current = btn.getAttribute('data-num') === '.' ? '0.' : btn.getAttribute('data-num');

resetNext = false;

} else {

if (btn.getAttribute('data-num') === '.' && current.includes('.')) return;

current = current === '0' && btn.getAttribute('data-num') !== '.'

? btn.getAttribute('data-num')

: current + btn.getAttribute('data-num');

}

updateDisplay();

clearActiveOps(); // operator tidak aktif lagi setelah mengetik angka

});

});

operatorButtons.forEach(btn => {

btn.addEventListener('click', () => {

const op = btn.getAttribute('data-op');

clearActiveOps(); // hapus active dari operator sebelumnya

btn.classList.add('active'); // beri tanda operator aktif

if (operator && !resetNext) calculate();

previous = current;

operator = op;

resetNext = true;

});

});

document.getElementById('equals').addEventListener('click', () => {

calculate();

operator = '';

clearActiveOps(); // hapus highlight setelah sama dengan ditekan

});

document.getElementById('clear').addEventListener('click', () => {

current = '0';

previous = '';

operator = '';

updateDisplay();

clearActiveOps();

});

document.getElementById('sign').addEventListener('click', () => {

current = String(parseFloat(current) \* -1);

updateDisplay();

});

document.getElementById('percent').addEventListener('click', () => {

current = String(parseFloat(current) / 100);

updateDisplay();

});

function calculate() {

if (!operator || !previous) return;

const a = parseFloat(previous);

const b = parseFloat(current);

let result = 0;

switch (operator) {

case '+': result = a + b; break;

case '-': result = a - b; break;

case '\*': result = a \* b; break;

case '/': result = a / b; break;

}

current = String(result);

updateDisplay();

resetNext = true;

}

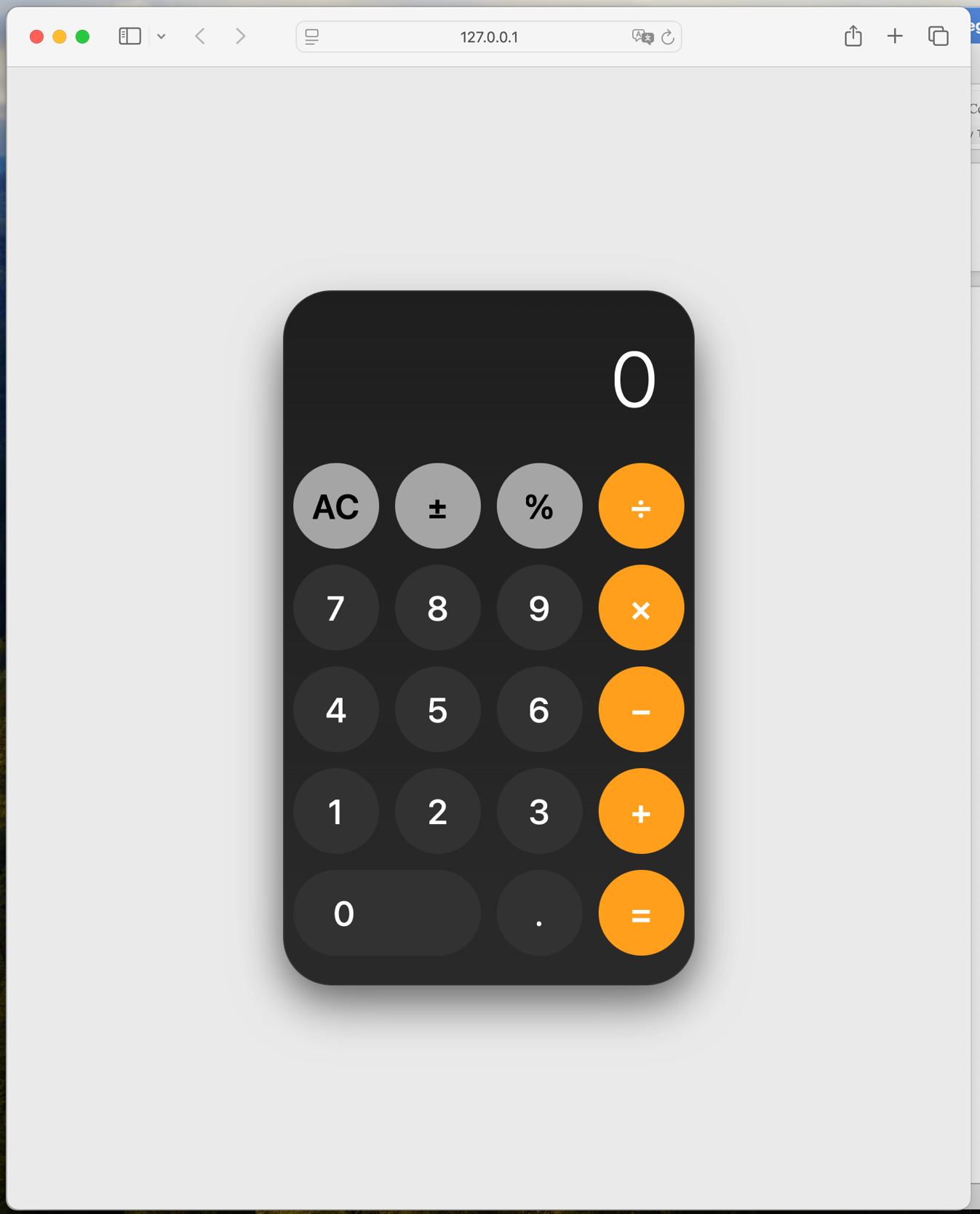
updateDisplay();

</script>

</body>

</html>

1. **TAMPILAN**

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