

PENGUJIAN PERANGKAT LUNAK

TUGAS 3

DEBUGGING APLIKASI KASIR

Oleh:

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PROGRAM STUDI TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

OKTOBER 2020

A. Source Code Debugging

1) helper.js/test

```
/*
    Gunakan file ini untuk membuat test case dengan Jest
*/

const{
    incrementQty,
    decrementQty,
    recalculateSubtotal,
    absoluteQty,
    hitungDiskon,
    total
} = require('../helpers.js')

test('Qty 1 jika ditambah 1 hasilnya 2', () => {
    expect(incrementQty(1)).toBe(2);
});

test('Qty 1 jika ditambah "1" hasilnya 2', () => {
    expect(incrementQty("1")).toBe(2);
});

test('Qty 2 jika dikurangi 1 hasilnya 1', () => {
    expect(decrementQty(2)).toBe(1);
});

test('Jika Qty -3, maka menjadi 1', () => {
    expect(absoluteQty(-3)).toBe(1);
});

test('jika harga 50000 dan Qty 2 hasilnya 100000', () => {
    expect(recalculateSubtotal(50000, 2)).toBe(100000);
});

test('total harga dari barang 50000 dan qty 2 dengan kode "DISKON25
maka hasilnya 75000', () => {
    expect(total(50000,2,'DISKON25')).toBe(75000);
});
```

2) helper.js/src

```
const incrementQty = (qty) => parseInt(qty) + 1;
const decrementQty = (qty) => parseInt(qty) - 1;

function recalculateSubtotal(price, qty) {
    return price * qty;
}

function total(price, qty, kode){
    return recalculateSubtotal(qty, price) - hitungDiskon(price,
qty, kode);
}

function absoluteQty(qty) {
    return (parseInt(qty) < 1) ? 1 : qty;
}

function hitungDiskon(price, qty, kode) {
    const subTotal = recalculateSubtotal(price, qty);
    switch (kode) {
        case "DISKON10":
```

```

        hasilDiskon = subTotal * 0.10;
        break;
    case "DISKON25":
        hasilDiskon = subTotal * 0.25;
        break;
    case "DISKON50":
        hasilDiskon = subTotal * 0.50;
        break;
    default:
        hasilDiskon = 0;
        break;
    }
    return hasilDiskon;
}

module.exports = {
    incrementQty,
    decrementQty,
    recalculateSubtotal,
    absoluteQty,
    total,
    hitungDiskon
};

```

3) app.js

```

import {
    incrementQty,
    decrementQty,
    recalculateSubtotal,
    absoluteQty,
    total
} from './helpers.js';

const incrButton = document.querySelector('#incr');
const decrButton = document.querySelector('#decr');
const okButton = document.querySelector('#confirmButton');
const qtyInput = document.querySelector('#qty');
const price = document.querySelector('#price');
const subtotal = document.querySelector('#subtotal');
const codeInput = document.querySelector('#code');

incrButton.addEventListener('click', () => {
    qtyInput.value = incrementQty(qtyInput.value);
    subtotal.textContent = `Rp.
    ${total(qtyInput.value, price.value, codeInput.value)} `;
});

decrButton.addEventListener('click', () => {
    qtyInput.value = decrementQty(qtyInput.value);
    qtyInput.value = absoluteQty(qtyInput.value);
    subtotal.textContent = `Rp.
    ${total(qtyInput.value, price.value, codeInput.value)} `;
});

okButton.addEventListener('click', () => {
    subtotal.textContent = `Rp.
    ${total(qtyInput.value, price.value, codeInput.value)} `;
});

price.addEventListener('keyup', () => {
    subtotal.textContent = `Rp. ${total(price.value, qtyInput.value,
    codeInput.value)} `;
});

```

```
});

qtyInput.addEventListener('keyup', () => {
  subtotal.textContent = `Rp. ${total(price.value, qtyInput.value,
codeInput.value)} `
});
```

B. Pengecekan npm

```

TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE
PS D:\Kinan\Kuliah\Kelas 3\Semester 5\PPL\T3\Kinan\kuis1-ppl-master> npm test

> simple-cart-app-1-start@0.0.1 test D:\Kinan\Kuliah\Kelas 3\Semester 5\PPL\T3\Kinan\kuis1-ppl-master
> jest

PASS src/_tests_/helpers.js
  ✓ Qty 1 jika ditambah 1 hasilnya 2 (2ms)
  ✓ Qty 1 jika ditambah "1" hasilnya 2
  ✓ Qty 2 jika dikurangi 1 hasilnya 1
  ✓ Jika Qty -3, maka menjadi 1
  ✓ jika harga 50000 dan Qty 2 hasilnya 100000
  ✓ total harga dari barang 50000 dan qty 2 dengan kode "DISKON25 maka hasilnya 75000

Test Suites: 1 passed, 1 total
Tests: 6 passed, 6 total
Snapshots: 0 total
Time: 1.633s
Ran all test suites.
PS D:\Kinan\Kuliah\Kelas 3\Semester 5\PPL\T3\Kinan\kuis1-ppl-master>

```

C. Output tampilan

- Tampilan awal:

← → ↻ localhost:1234

Apps ★ Bookmarks Kuliah WRI Webtoon

Keranjang belanja

Title

Rp. 50000 + 1 Kode Promo OK

Subtotal Rp. 500000

Bayar

- Setelah ditambah 1 item:

← → ↻ localhost:1234

Apps ★ Bookmarks Kuliah WRI Webtoon

Keranjang belanja

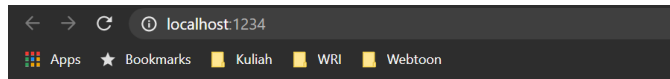
Title

Rp. 50000 + 2 Kode Promo OK

Subtotal Rp. 100000

Bayar

- Setelah dikurangi 1 item:



Keranjang belanja

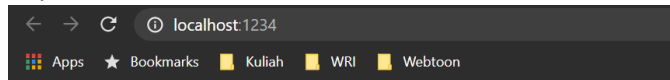
Title

Rp. 50000 + 1 - Kode Promo OK

Subtotal Rp. 500000

Bayar

- Kupon diskon:



Keranjang belanja

Title

Rp. 50000 + 2 - KODE25 OK

Subtotal Rp. 75000

Bayar