

Novita Syahwa Tri Hapsari

2311104007

SE 07 01

Code BankTransferConfig:

```
const fs = require('fs');
const readline = require('readline');

class BankTransferConfig {
  constructor(configFile = 'bank_transfer_config.json') {
    this.configFile = configFile;
    this.defaultConfig = {
      lang: "en",
      transfer: {
        threshold: 25000000,
        low_fee: 6500,
        high_fee: 15000
      },
      methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
      confirmation: {
        en: "yes",
        id: "ya"
      }
    };
    this.config = this.loadConfig();
  }

  loadConfig() {
    try {
      if (fs.existsSync(this.configFile)) {
        const data = fs.readFileSync(this.configFile, 'utf8');
        const userConfig = JSON.parse(data);
        return { ...this.defaultConfig, ...userConfig };
      }
    } catch (error) {
      console.log("Gagal membaca file konfigurasi. Menggunakan default.");
    }
    return this.defaultConfig;
  }
}

// Membuat interface input
const rl = readline.createInterface({
  input: process.stdin,
  output: process.stdout
});

const app = async () => {
  const config = new BankTransferConfig().config;
  const lang = config.lang;
  const { threshold, low_fee, high_fee } = config.transfer;
  const methods = config.methods;
  const confirmation = config.confirmation;

  const ask = (question) => new Promise((resolve) => rl.question(question, resolve));
```

```

const amountInput = await ask(
  lang === 'en' ?
    "Please insert the amount of money to transfer: " :
    "Masukkan jumlah uang yang akan di-transfer: "
);

const amount = parseInt(amountInput);
const fee = amount <= threshold ? low_fee : high_fee;
const total = amount + fee;

if (lang === "en") {
  console.log(`Transfer fee = ${fee}`);
  console.log(`Total amount = ${total}`);
  console.log("Select transfer method:");
} else {
  console.log(`Biaya transfer = ${fee}`);
  console.log(`Total biaya = ${total}`);
  console.log("Pilih metode transfer:");
}

methods.forEach((method, index) => {
  console.log(`${index + 1}. ${method}`);
});

await ask("Pilihan Anda (nomor): ");

const confirmInput = await ask(
  lang === "en" ?
    `Please type "${confirmation.en}" to confirm the transaction: ` :
    `Ketik "${confirmation.id}" untuk mengkonfirmasi transaksi: `
);

if (
  (lang === "en" && confirmInput === confirmation.en) ||
  (lang === "id" && confirmInput === confirmation.id)
) {
  console.log(lang === "en" ? "The transfer is completed" : "Proses transfer berhasil");
} else {
  console.log(lang === "en" ? "Transfer is cancelled" : "Transfer dibatalkan");
}

r1.close();
};

app();

```

```

{
  "lang": "en",
  "transfer": {
    "threshold": 25000000,
    "low_fee": 6500,
    "high_fee": 15000
  },
  "methods": ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],

```

```
    "confirmation": {  
      "en": "yes",  
      "id": "ya"  
    }  
  }  
}
```

Output :

```
PS N:\TELKOM UNIVERSITY\SEM 4\KPL_Novita Syahwa Tri Hapsari_2311104007_SE07-01\08_RuntimeConfiguration_Internat  
ionalization\JURNAL\BankTransferConfig> node .\index.js  
Please insert the amount of money to transfer: 12000  
Transfer fee = 6500  
Total amount = 18500  
Select transfer method:  
1. RTO (real-time)  
2. SKN  
3. RTGS  
4. BI FAST  
Pilihan Anda (nomor): 4  
Please type "yes" to confirm the transaction: yes  
The transfer is completed  
PS N:\TELKOM UNIVERSITY\SEM 4\KPL_Novita Syahwa Tri Hapsari_2311104007_SE07-01\08_RuntimeConfiguration_Internat  
ionalization\JURNAL\BankTransferConfig> 
```

Penjelasan code :

Program ini saat dijalankan, program akan meminta pengguna memasukkan jumlah uang yang ingin ditransfer, menghitung biaya transfer berdasarkan jumlah tersebut, lalu menampilkan total yang harus dibayar. Setelah itu, pengguna diminta memilih metode transfer dan mengetik kata konfirmasi sesuai bahasa yang dipilih. Jika konfirmasi benar, transaksi dianggap berhasil; jika tidak, transaksi dibatalkan. Program ini juga fleksibel karena pengaturannya bisa diubah hanya dengan mengedit file konfigurasi tanpa mengubah kode program.