

2311104023
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SE-07-01

Jurnal

```
1  import fs from "fs";
2
3  export class BankTransferConfig {
4    constructor() {
5      this.configPath = "bank_transfer_config.json";
6      this.defaultConfig = {
7        lang: "en",
8        transfer: {
9          threshold: 25000000,
10         low_fee: 6500,
11         high_fee: 15000
12       },
13       methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
14       confirmation: {
15         en: "yes",
16         id: "ya"
17       }
18     };
19     this.config = this.loadConfig();
20   }
21
22   loadConfig() {
23     try {
24       const data = fs.readFileSync(this.configPath, "utf8");
25       return JSON.parse(data);
26     } catch (err) {
27       return this.defaultConfig;
28     }
29   }
30 }
```

```

1  import fs from "fs";
2  import readline from "readline";
3
4
5  const defaultConfig = {
6    lang: "en",
7    transfer: {
8      threshold: 25000000,
9      low_fee: 6500,
10     high_fee: 15000,
11   },
12   methods: ["RTO (real-time)", "SKN", "RTGS", "BI FAST"],
13   confirmation: {
14     en: "yes",
15     id: "ya",
16   },
17 };
18
19
20 let config;
21 try {
22   const data = fs.readFileSync("bank_transfer_config.json", "utf8");
23   config = JSON.parse(data);
24 } catch (error) {
25   config = defaultConfig;
26 }
27
28 const rl = readline.createInterface({
29   input: process.stdin,
30   output: process.stdout,
31 });
32
33
34 const lang = config.lang.toLowerCase() === "id" ? "id" : "en";
35
36
37 const messages = {
38   en: {
39     promptAmount: "Please insert the amount of money to transfer:",
40     fee: "Transfer fee =",
41     total: "Total amount =",
42     method: "Select transfer method:",
43     confirm: `Please type "${config.confirmation.en}" to confirm the transaction:`,
44     success: "The transfer is completed",

```

```

45     fail: "Transfer is cancelled",
46   },
47   id: {
48     promptAmount: "Masukkan jumlah uang yang akan di-transfer:",
49     fee: "Biaya transfer =",
50     total: "Total biaya =",
51     method: "Pilih metode transfer:",
52     confirm: `Ketik "${config.confirmation.id}" untuk mengkonfirmasi transaksi`,
53     success: "Proses transfer berhasil",
54     fail: "Transfer dibatalkan",
55   },
56 };
57
58
59 function startApp() {
60   rl.question(`${messages[lang].promptAmount}\n`, (input) => {
61     const amount = parseInt(input);
62     if (isNaN(amount)) {
63       console.log("Invalid input. Please enter a number.");
64       return startApp();
65     }
66     processTransfer(amount);
67   });
68 }
69
70 function processTransfer(amount) {
71   const fee = amount <= config.transfer.threshold
72     ? config.transfer.low_fee
73     : config.transfer.high_fee;
74   const total = amount + fee;
75
76   console.log(`${messages[lang].fee} ${fee}`);
77   console.log(`${messages[lang].total} ${total}`);
78   showMethods();
79 }
80
81 function showMethods() {
82   console.log(`${messages[lang].method}`);
83   config.methods.forEach((method, index) => {
84     console.log(`${index + 1}. ${method}`);
85   });

```

Penjelasan :

- fs: Modul file system untuk membaca file konfigurasi.
- readline: Modul untuk membaca input dari pengguna melalui terminal.
- Konfigurasi jika file eksternal tidak tersedia.
- threshold: Batas nominal untuk biaya transfer rendah/tinggi.
- methods: Daftar metode transfer.
- confirmation: Kata yang harus diketik user untuk konfirmasi transaksi.
- Mencoba membaca file bank_transfer_config.json.
- Jika gagal (misalnya file tidak ditemukan), maka gunakan defaultConfig.
- Membuat interface input.
- Menentukan bahasa yang digunakan (id atau en).
- Menyimpan seluruh pesan yang akan ditampilkan dalam 2 bahasa.
- Disesuaikan berdasarkan konfigurasi (config.lang).
- Menjalankan proses dari awal, yaitu meminta input jumlah uang yang akan ditransfer.